

WHERE TO WRITE

Campus Zip Code • 70803

Campus Area Code • 225

Web Address • www.lsu.edu

Campus office hours are 8 a.m. to noon and 12:30 p.m. to 4:30 p.m., Monday through Friday.

Requests for information and application forms for admission should be addressed as indicated below.

Office of Undergraduate Admissions & Student Aid

Admissions Division

Pleasant Hall • 225-578-6908

FAX • 225-578-4433

Office hours are 8:00 a.m. through 4:30 p.m.

Outreach Division

Pleasant Hall • 225-578-6908

Tours: Pleasant Hall

Office hours are 8:00 a.m. through 4:30 p.m.

Student Aid Division

Pleasant Hall • 225-578-3103

FAX • 225-578-6300

Office hours are 8:00 a.m. through 4:30 p.m.

Office of Graduate Admissions

114 David Boyd Hall • 225-578-1641

FAX • 225-578-2112

Office of the University Registrar

112 Thomas Boyd Hall • 225-578-1686

FAX • 225-578-5991

Office hours are 8:00 a.m. through 4:30 p.m.

School of Library & Information Science

267 Coates Hall • 225-578-3158

FAX • 225-578-4581

School of Social Work

311 Long Fieldhouse • 225-578-5875

FAX • 225-578-1357

School of Veterinary Medicine

1102 Veterinary Medicine Building • 225-578-9900

FAX • 225-578-9916

Office of the Dean of Students

116 Johnston Hall • 225-578-4707

FAX • 225-578-5637

Office of International Programs

101 Hatcher Hall • 225-578-1104

FAX • 225-578-6806

LSU Dining

Copy & Mail Center, 2nd Floor • 225-578-6642

FAX • 225-578-0834

Department of Residential Life

99 Grace King Hall • 225-578-8663

FAX • 225-578-5576

Student Government

150 LSU Student Union Building • 225-578-8727

FAX • 225-578-8747

This LSU General Catalog represents a flexible program of the current educational plans, offerings, and requirements that may be altered from time to time to carry out the purposes and objectives of Louisiana State University. The provisions of this publication do not constitute an offer for a contract that may be accepted by students through registration and enrollment in the University. The University reserves the right to change any provision, offering, or requirement at any time within the student's period of study at LSU. LSU further reserves the right to require a student to withdraw from the University for cause at any time.

LSU assures equal opportunity for all qualified persons without regard to race, creed, color, marital status, sexual orientation, religion, sex, age, national origin, physical or mental disability, or veteran's status in the admission to, participation in, and treatment or employment in the programs and activities that the University operates and sponsors. Anyone having questions or complaints regarding equal opportunity at LSU should contact the Office of Human Resource Management, 304 Thomas Boyd Hall, LSU, Baton Rouge, Louisiana 70803; telephone 225-578-8200.

LOUISIANA STATE UNIVERSITY

This LSU General Catalog serves as both the undergraduate and the graduate catalog of LSU. Regulations and degree requirements pertaining only to graduate students are found in the section “Graduate School • Professional Programs.” Detailed descriptions of all degree programs offered through the Graduate School may be found in the Graduate Bulletin, available on request from the Graduate School, 114 David Boyd Hall, LSU, Baton Rouge, Louisiana 70803.

STATEMENT OF ACCREDITATION

Louisiana State University and Agricultural & Mechanical College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award bachelor’s, master’s, doctoral, and professional degrees.

The Commission on Colleges of the Southern Association of Colleges and Schools is the recognized regional accrediting body in the 11 U.S. southern states (Alabama, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Texas, and Virginia) for those institutions of higher education that award associate, baccalaureate, master’s, or doctoral degrees. The Commission on Colleges is the representative body of the College Delegate Assembly and is charged with carrying out the accreditation process. The Commission’s address is 1866 Southern Lane, Decatur, Georgia 30033; telephone 404/679-4500.

STUDENT RESPONSIBILITY

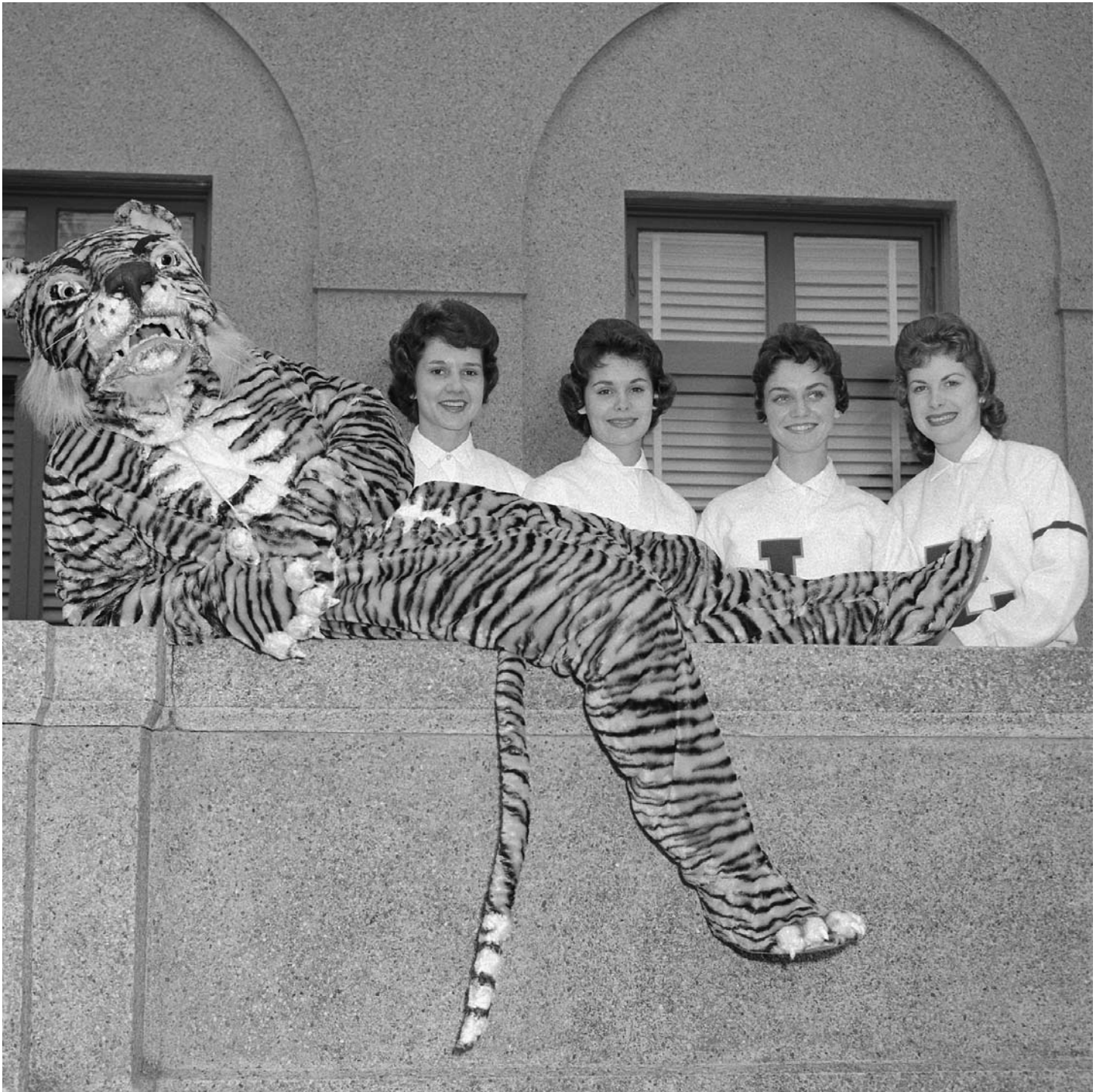
Each student is personally responsible for completing all requirements established for his or her degree by the University, college, and department. It is the student’s responsibility to learn these requirements. A student’s counselor may not assume these responsibilities. Any substitution, waiver, or exemption from any established requirement or academic standard may be accomplished only with the approval of the student’s dean. Exceptions to University requirements, including the general education requirements, will be authorized only with approval of the student’s dean and the Office of Academic Affairs.

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Effective date of this catalog: Fall 2010

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10M • March 2010



Louisiana State University marks its sesquicentennial anniversary in 2010 with a year of reflection, celebration, and commitment. We invite all former and future students, faculty, and staff, as well as friends of LSU worldwide to join us in celebrating the University's 150 years of excellence. Please visit www.LSU150.com to learn how you can join the celebration.

To celebrate the sesquicentennial year, LSU has chosen historical photographs for this volume of the General Catalog.

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Academic Calendar • 2010-11

(Dates in italics pertain exclusively to graduate students)

FALL SEMESTER 2010

August

- 12-13 International Student Orientation
16-19 Freshman & Transfer Orientation
20 *Final date to apply online to the Graduate School for the fall semester*
23 Classes begin, 7:30 a.m.
30 Final date for dropping courses without receiving a grade of "W"

September

- 1 Final date for adding courses for credit and making section changes
1 *Final date for adding thesis and dissertation research; final date for "degree only" registration*
3 *Final date for submitting to Graduate School applications for master's and doctoral degrees to be awarded at fall commencement*
6 Labor Day holiday
7 Classes resume, 7:30 a.m.
10 *Final date for submitting to Graduate School requests for final exams for degrees to be awarded at fall commencement*
10 *Final date for submitting to Graduate School general examination results for doctorates to be awarded at spring commencement*

October

- 11-16 Mid-semester examinations
15 *Final date for receipt of graduate admission applications for spring semester without paying \$25 late fee*
15 *Final date for international applicants residing outside the U.S. to apply to the Graduate School for the spring semester*
19 Mid-semester grades due, 9:00 a.m.
21 Fall holiday begins
24 Course scheduling for spring semester, spring intersession, and summer term begins, 5:00 p.m.
25 Classes resume, 7:30 a.m.

November

- 5 Final date for resigning from the University and/or dropping courses
5 Final date to request rescheduling a final examination when three examinations are scheduled in 24 hours
5 *Final date for submitting to Graduate School the "Program of Study" for the current semester to be counted toward the doctoral residence requirement*
19 *Final date for submitting to Graduate School committee examination reports and approved theses and dissertations, including Graduate School corrections, 12:00 p.m.*
24 Thanksgiving holiday begins, 12:30 p.m.
29 Classes resume, 7:30 a.m.

December

- 1-5 Concentrated study period—no meetings, social activities, athletic events, or other extracurricular activities requiring student participation will be scheduled; no major examinations will be given in academic courses other than labs
4 Classes end
6-11 Final examinations
14 Final grades (degree candidates) due, 9:00 a.m.
15 Final grades (non-degree candidates) due 9:00 a.m.
17 Commencement Day

WINTERSESSION 2010

December

- 13 Classes begin, 7:30 a.m.
13 Final date for dropping courses without receiving a grade of "W"
14 Final date for adding courses for credit and making section changes
21 Final date for resigning from the University and/or dropping courses
23 Winter holiday begins

January

- 3 Classes resume, 7:30 a.m.
4 Classes end
5 Final examinations
7 Final grades due, 9:00 a.m.

SPRING SEMESTER 2011

January

- 10 International Student Orientation
11-13 Freshman & Transfer Orientation
14 *Final date to apply online to the Graduate School for the spring semester*
17 Martin Luther King Day holiday
18 Classes begin, 7:30 a.m.
25 Final date for dropping courses without receiving a grade of "W"
27 Final date for adding courses for credit and making section changes
27 *Final date for adding thesis and dissertation research; final date for "degree only" registration*
28 *Final date for submitting to Graduate School applications for master's and doctoral degrees to be awarded at spring commencement*

February

- 4 *Final date for submitting to Graduate School requests for final examinations for degrees to be awarded at spring commencement*
4 *Final date for submitting to Graduate School general examination results for doctorates to be awarded at summer commencement*

March

- 6 Mardi Gras holiday begins
9 Classes resume, 12:30 p.m.
14-19 Mid-semester examinations
22 Mid-semester grades due, 9:00 a.m.
27 Course scheduling for fall semester, summer intersession, and wintersession begins, 5:00 p.m.

April

- 4 Final date for resigning from the University and/or dropping courses
4 Final date to request rescheduling a final examination when three examinations are scheduled in 24 hours
4 *Final date for submitting to Graduate School the "Program of Study" for the current semester to be counted toward the doctoral residence requirement*

- 18-24 Spring break
- 25 Classes resume, 7:30 a.m.
- 29 *Final date for submitting to Graduate School committee examination reports and approved theses and dissertations, including the Graduate School corrections, 12:00p.m.*

May

- 4-8 Concentrated study period begins—no meetings, social activities, athletic events, or other extracurricular activities requiring student participation will be scheduled; no major examinations will be given in academic courses other than labs
- 7 Classes end
- 9-14 Final examinations
- 15 *Final date for receipt of graduate admission applications for summer term or fall semester without paying \$25 late fee*
- 15 *Final date for international applicants residing outside the U.S. to apply to the Graduate School for the summer term and fall semester*
- 17 Final grades (degree candidates) due, 9:00 a.m.
- 18 Final grades (non-degree candidates) due, 9:00 a.m.
- 20 Commencement Day

SPRING INTERSESSION 2011

May

- 19 Classes begin, 7:30 a.m.
- 19 Final date for dropping courses without receiving a grade of "W"
- 20 Final date for adding courses for credit and making section changes
- 27 Final date for resigning from the University and/or dropping courses
- 31 Classes end

June

- 1 Final examinations
- 3 Final grades due, 9:00 a.m.

SUMMER TERM 2011

SESSION A

May

- 30 International Student Orientation
- 31 Freshman & Transfer Orientation begins

June

- 2 Freshman & Transfer Orientation ends
- 3 *Final date to apply online to the Graduate School for the summer term*
- 6 Classes begin, 7:30 a.m.
- 8 Final date for dropping courses without receiving a grade of "W"
- 9 Final date for adding courses for credit and making section changes
- 9 *Final date for adding thesis and dissertation research; final date for "degree only" registration*
- 10 *Final date for submitting to Graduate School applications for master's and doctoral degrees to be awarded at summer commencement*
- 10 *Final date for submitting to Graduate School requests for final exams for degrees to be awarded at summer commencement*
- 10 *Final date for submitting to Graduate School general examination results for the doctorate to be awarded at fall commencement*
- 27-29 Midterm examinations

July

- 4 Independence Day holiday
- 5 Classes resume, 7:30 a.m.
- 5 Midterm grades due, 9:00 a.m.
- 8 *Final date for submitting to Graduate School committee examination reports and approved theses and dissertations, including Graduate School corrections, 12:00p.m.*
- 12 Final date for resigning from the University and/or dropping courses
- 25 Classes end
- 26 Concentrated study day
- 27-28 Final examinations

August

- 2 Final grades (degree candidates) due, 9:00 a.m.
- 3 Final grades (non-degree candidates) due, 9:00 a.m.
- 5 Commencement Day, 9:00 a.m.

SESSION B

(See Session A for Graduate School deadlines)

May

- 30 International Student Orientation
- 31 Freshman & Transfer Orientation begins

June

- 2 Freshman & Transfer Orientation ends
- 6 Classes begin, 7:30 a.m.
- 8 Final date for dropping courses without receiving a grade of "W"
- 9 Final date for adding courses for credit and making section changes
- 28 Final date for resigning from the University and/or dropping courses

July

- 4 Independence Day holiday
- 5 Classes resume, 7:30 a.m.
- 8 Classes end
- 9 Final examinations
- 13 Final grades due, 9:00 a.m.

August

- 5 Commencement, 9:00 a.m.

SUMMER INTERSESSION 2011

August

- 1 Classes begin, 7:30 a.m.
- 1 Final date for dropping courses without receiving a grade of "W"
- 2 Final date for adding courses for credit and making section changes
- 9 Final date for resigning from the University and/or dropping courses
- 12 Classes end
- 13 Final examinations
- 17 Final grades due, 9:00 a.m.

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The University

As the flagship institution of the state, the vision of Louisiana State University is to be a leading research-extensive university, challenging undergraduate and graduate students to achieve the highest levels of intellectual and personal development. Designated as a land-, sea-, and space-grant institution, the mission of Louisiana State University is the generation, preservation, dissemination, and application of knowledge and cultivation of the arts. In implementing its mission, LSU is committed to:

- *offer a broad array of undergraduate degree programs and extensive graduate research opportunities designed to attract and educate highly qualified undergraduate and graduate students;*
- *employ faculty who are excellent teacher-scholars, nationally competitive in research and creative activities, and who contribute to a world-class knowledge base that is transferable to educational, professional, cultural, and economic enterprises; and*
- *use its extensive resources to solve economic, environmental, and social challenges.*

(Mission Statement approved December 2006)

HISTORICAL PERSPECTIVE

Louisiana State University and Agricultural & Mechanical College originated in grants of land made by the U. S. government beginning in 1806. In 1853, the Louisiana General Assembly established the *Louisiana State Seminary of Learning and Military Academy* near Pineville, Louisiana. The institution opened January 2, 1860, with General William Tecumseh Sherman as superintendent. Because of the Civil War, the school closed June 30, 1861, and reopened on April 1, 1862, with Col. William Linfield as acting superintendent. He was succeeded in 1863 by Professor William A. Seay. Because of the invasion of the Red River Valley by the Federal Army, the institution was closed again on April 23, 1863.

The Seminary reopened October 2, 1865, with Col. David F. Boyd as superintendent. The Seminary was destroyed by fire on October 15, 1869, and reopened on November 1, 1869, in Baton Rouge, where it has remained. In 1870, the name of the institution was changed to *Louisiana State University*.

The *Louisiana State Agricultural & Mechanical College*, established by an Act of the Legislature in 1874, opened in New Orleans on June 1, 1874, where it remained until it merged with Louisiana State University on January 2, 1877. The two state institutions began their first joint session on October 5, 1877, under the name of the *Louisiana State University and Agricultural & Mechanical College*.

The first Baton Rouge home of LSU was the Institute for the Deaf, Dumb, and Blind. In 1886, the institution moved to the federal garrison grounds (now the site of the state capitol). Construction of the campus at its present site started in 1922, and the move, which began in 1925, was not completed until 1932. Formal dedication of the present campus took place on April 30, 1926.

LSU's chief academic divisions were founded as follows: **Law School**, 1906; the **Colleges of Agriculture, Arts & Sciences, Education, and Engineering**, 1908; the **Graduate School**, 1909; **Continuing Education**, 1924; the College of Business Administration (renamed the **E. J. Ourso College of Business Administration** in 1996; renamed the **E. J. Ourso College of Business** in 2005), 1928; the Graduate School of Library Science (renamed the **School of Library & Information Science** in 1981), the College of Chemistry & Physics (renamed the **College of Basic Sciences** in 1982), and the School of Music (renamed the **College of Music & Dramatic Arts** in 1998), 1931; Junior Division (incorporated into **University College** in 1999), 1933; the School of Social Welfare (renamed the **School of Social Work** in 1983), 1937; **University College** (incorporated into General College in 1974 and reinstated in 1999), 1951; the School of Environmental Design (renamed the College of Design in 1979; renamed the **College of Art & Design** in 2001), 1965; the **School of Veterinary Medicine**, 1968; and the Graduate

Division of Education (merged with the Graduate School in 1982), 1970. In 1977, the **Hebert Law Center** (formerly the Law School) was made an autonomous unit of the LSU System.

In 1978, LSU was named a sea-grant college—the 13th university in the nation to be so designated, and the highest classification in the program. In 2005, LSU was designated as a space-grant college.

LSU TODAY

Today LSU holds a prominent position in American higher education and is committed to meeting the challenge of pursuing intellectual development for its students, expanding the bounds of knowledge through research, and creating economic opportunities for Louisiana. LSU is in a state of dynamic transformation - changing and evolving to meet the needs of its students, faculty, and the people of Louisiana. LSU 2010, the *National Flagship Agenda*, brings into focus the University's commitment to excellence at every level. The goal of this agenda is to have LSU reach the upper tier of national prominence by the year 2010, the University's 150th anniversary.

LSU is one of only 21 universities nationwide designated as a land-grant, sea-grant, and space-grant institution. It also holds the Carnegie Foundation's designation as a Doctorate-granting university, with very high research activity.

LSU's instructional programs include 202 undergraduate and graduate/professional degrees.

The University attracts about 14 percent of the state's total enrollment in higher education, and LSU students come from many ethnic and religious backgrounds. The student body consists of nearly 28,000 students from 50 states and over 110 foreign countries. Although the average age of undergraduates is 21, many older students also pursue degrees at LSU. The student body is 51 percent women and 49 percent men.

Since its first commencement in 1869, LSU has awarded over 221,000 degrees. The University produces about 26 percent of Louisiana's baccalaureate graduates, approximately 22 percent of the master's graduates, and about 53 percent of the doctoral graduates. In 2008-09, LSU awarded 6,044 degrees.

The University is a member of the American Council on Education, an organization of accredited post-secondary educational institutions founded in 1918; the National Association of State Universities and Land-Grant Colleges, founded in 1962 to represent the major public universities and land-grant institutions; and the American Association of State Colleges and Universities, a select group of leading public institutions of higher education.

LSU is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award bachelor's, master's, doctoral, and professional degrees.

The LSU System, composed of nine institutions on 10 campuses in five cities, as well as 10 public hospitals in 10 cities, was established by an act of the Louisiana legislature on February 6, 1965. Other components of the System are the LSU Agricultural Center (headquartered in Baton Rouge); the Hebert Law Center, Baton Rouge; the Health Science

Center (with two campuses in New Orleans and one in Shreveport, including the Schools of Allied Health Professions, Medicine, Dentistry, and Nursing, and Graduate School); the University of New Orleans and LSU in Shreveport, both four-year institutions; LSU at Alexandria and LSU at Eunice, both two-year institutions; and the Health Care Division.

The governing body of the LSU System is the Board of Supervisors, composed of 16 members. Chief administrative officers of the University System are the President, Executive Vice President, Vice President for Academic Affairs, Vice President for Human Resources & Risk Management, and Vice President for Property and Facilities Administration.

The LSU Agricultural Center, including the Louisiana Agricultural Experiment Station and the Louisiana Cooperative Extension Service and International Programs, has more than 200 faculty members who hold joint appointments with LSU. The Experiment Station has research programs in Baton Rouge and at branch stations throughout Louisiana. The Extension Service disseminates results of research throughout the state through specialists, county agents, and home economists in every parish.

The Paul M. Hebert Law Center, originally established in 1906, became an autonomous unit of the LSU System in 1977. In 1979, it was renamed in honor of Paul M. Hebert, who served as dean from 1937 to 1977.

All references in this catalog to "Louisiana State University," "LSU," or "the University," are to be understood as meaning the institution in Baton Rouge (whose full name is Louisiana State University and Agricultural & Mechanical College). Any reference to the LSU System or to any other institution(s) within the System will be clearly indicated.

MISSION

As the flagship institution of the state, the vision of Louisiana State University is to be a leading research-extensive university, challenging undergraduate and graduate students to achieve the highest levels of intellectual and personal development. Designated as a land-, sea-, and space-grant institution, the mission of Louisiana State University is the generation, preservation, dissemination, and application of knowledge and cultivation of the arts.

In implementing its mission, LSU is committed to:

- offer a broad array of undergraduate degree programs and extensive graduate research opportunities designed to attract and educate highly qualified undergraduate and graduate students;
- employ faculty who are excellent teacher-scholars, nationally competitive in research and creative activities, and who contribute to a world-class knowledge base that is transferable to educational, professional, cultural, and economic enterprises; and
- use its extensive resources to solve economic, environmental, and social challenges.

(Mission Statement approved December 2006)

Teaching

The University has over 1,500 full-time and part-time faculty members. The *Boyd Professorship*—named in honor of two early University presidents, David and Thomas Boyd—is the highest professorial rank awarded. The *William A. Read Professorship of English Literature* and the *Nicholson Professorship of Mathematics* are comparable to the Boyd Professorship.

Other awards for outstanding achievement are *Endowed Chairs*, *Endowed Professorships*, *LSU Foundation Professorships*, *Alumni Professorships*, *Distinguished Faculty Fellowships*, and the annual *Distinguished Research Master Award*. Recognized authorities in various fields are appointed as consulting professors or visiting lecturers.

The University is committed to the principle that excellence in teaching depends upon qualified and conscientious instructors. LSU boasts a nationally and internationally recruited faculty—approximately 86 percent of whom have terminal degrees. Many faculty members are international authorities in their fields and bring esteem and recognition to the University. The recipients of such coveted awards as the Guggenheim and Fulbright fellowships, LSU professors represent an enviable array of knowledge.

Research

LSU is one of a small number of universities nationwide designated as a land-, sea-, and space-grant institution. According to a report by the National Research Council, LSU consistently ranks among the top 30 universities in total federal, state and private expenditures. The University's success in the leveraging of state funds to obtain federal dollars places it among the best in the nation and represents a good investment of taxpayer's money.

The University Libraries comprise the largest library in the state. The University now holds 271 cumulative patents and received more than \$546,000 licensing revenues.

In addition to more than 40 institutes, centers for advanced study, and other specialized units headquartered at LSU, various state and federal governmental units maintain offices and laboratories on campus. At any given time, more than 2,500 sponsored research projects are in progress. Additionally, faculty and staff members and graduate students pursue numerous research projects that are not sponsored by outside agencies. External research funding at LSU reached \$156.2

million in 2007-08. LSU's awarded grants and contracts from federal, state, and private sources provide a significant boost to the Louisiana economy. Other research projects and instructional programs are undertaken through the LSU Agricultural Center, the Louisiana Agricultural Experiment Station, and Pennington Biomedical Center.

Public Service

Government, education, business, and industry in Louisiana benefit daily from the outreach services provided by LSU. New technology is transferred from University laboratories to the community, providing a vital boost to the economy and helping to find answers to some of Louisiana's most pressing environmental issues.

Several LSU divisions provide public services to the community and state.

- The *LSU Cartographic Information Center (CIC)*, ranked among the largest academic map libraries in the U.S., holds a vast collection of maps, globes, journals, monographs, photographs, slides, and atlases. The center serves patrons from the LSU community, local businesses, state agencies, and the general public.
- The *J. Bennett Johnston Sr. Center for Advanced Microstructures & Devices (CAMD)* is a high-tech research center that serves the public by providing: an infrastructure for economic diversity within the state in the area of microfabrication; testing services for local area gas, oil, and chemical industries; a focus for material science research and development at LSU and within the state; and scientific outreach to students in elementary school through graduate school.
- The *LSU Center for Internal Auditing (LSUCIA)* is an internationally recognized program that provides students with nationwide internships and career opportunities. The LSUCIA also provides executive training for professionals.
- *Continuing Education* provides valuable learning opportunities by extending LSU's resources beyond the campus through workshops, short courses, extramural courses, correspondence courses, institutes, seminars, and conferences.
- The *Curriculum Theory Project* is internationally recognized. Housed in the Department of Educational Theory, Policy, and Practice, the project supports research at the local, state, regional, national, and international levels concerning curricular issues.
- The *Delta Express Project* originally emerged as a collaborative effort between the College of Education and the University of California-Berkeley's UC Links after-school initiative to address the educational and social needs of underserved children of families displaced by Hurricanes Katrina and Rita and relocated to the Renaissance Village FEMA trailer park in Baker, Louisiana. Through additional funding from the Louisiana and Kentucky Campus Compact Learn and Serve Grants, the Delta Express Project has expanded its initial organization and offerings to include social, emotional, health, and civic components in order to address the myriad of needs of the children and families served by the project.
- The *Division of Student Life* matches community needs with student and faculty resources through its academic service learning program, *LSU PLUS*, coordinated through University College; and the *Student Community*

Outreach Center, coordinated through the Center for Student Leadership & Involvement.

- The *LSU Coastal Roots Program* is a coastal wetland restoration project in south Louisiana led by the College of Education in partnership with the College of Agriculture, the Louisiana Sea Grant College Program, and the LSU Agricultural Center. This program engages fourth through twelfth graders in the growing of native plant seedlings that they then plant in coastal habitat restoration projects in south Louisiana.

- The *Earth Scan Laboratory* is a satellite receiving station and image processing facility for environmental data from six unique earth observing sensor systems. The laboratory specializes in real-time access to satellite imagery and measurements of the atmosphere, oceans and coastal areas within the Gulf of Mexico/Caribbean Sea region, data which is obtained directly from satellite transmissions many times each day. The mission of the laboratory is state emergency response, education, and research. During hurricane season the laboratory provides detailed maps of hurricanes, their structure, location, and movement every 15 minutes to the Governor's Office of Homeland Security and Emergency Response. Also provided is real-time imagery of hurricanes, tropical storm, and coastal/ocean events through the laboratory's Web site: <http://www.esl.lsu.edu>.

- *Executive Education* has prepared individuals and organizations to meet the challenges of a rapidly changing workplace for nearly 50 years. Highly relevant courses are designed to provide an immediate impact and help business owners make best course of action decisions.

- The *LSU FACES Laboratory* is a public service, research, and educational facility designated to assist law enforcement agencies in the positive identification of human remains, profile analysis, and trauma analysis. Since 1981, this laboratory unit of the Department of Geography & Anthropology, the only one of its kind in the state and region, has offered complete methods of identification through forensic anthropological autopsy and computer-generated techniques.

- The primary goal of the *French Education Project* is to improve the teaching of French and francophone cultures with special emphasis on Louisiana's francophone heritage. Among its offerings to K-12 teachers of French and science is the Virtual Museum, a collaborative effort between the College of Education and the LSU Museum of Natural Science, which provides statewide access to LSU's immense collection of natural science specimens and rich academic expertise.

- *GEAR UP Baton Rouge* is a College of Education outreach initiative which supports faculty's work with area schools to provide postsecondary opportunities for at-risk youth.

- The College of Arts & Sciences Secondary Education concentrations (the *Geaux Teach Program*) in history, English, Spanish, and French have been designed to provide students with the skills and experiences necessary to become successful educators. This program pairs education and content courses with carefully selected field experiences.

- The *Healthy Aging Studies Project* is led by an interdisciplinary team collaborating to profile for creating healthy aging. Findings from the study of genetic and physiologic determinants of longevity and "healthy aging" benefit the state as it addresses aging issues.

- The *HopKins Black Box Theatre in the*

Department of Communication Studies functions as the department's performance studies area classroom and research laboratory, in addition to offering a full season of public performances each year.

- The *LSU Hurricane Center* is a multi-disciplinary center addressing hurricanes and other hazards and their impacts on the natural, built, and human environments. Center faculty work closely with resource managers and emergency preparedness decision-makers, transferring the latest information and technology in areas such as storm prediction, preparedness, response, recovery, and mitigation.

- The *Stephenson Entrepreneurship Institute (SEI)* utilizes various programs, seminars, and other means to address the challenges of entrepreneurship and to positively impact students, the regional economy, Louisiana, and the nation.

- The College of Agriculture's *Les Voyageurs* student speakers bureau conducts programs for middle and high school age student groups on career opportunities and career decision making in the agricultural and natural sciences.

- The *Louisiana Business & Technology Center (LBTC)* is a small business incubator on LSU's South campus that is the home to 25 start-up businesses. The LBTC offers flexible space, business equipment, and consulting services to those firms and outside clients through the LSU Small Business Development Center. In addition, the LBTC operates the Louisiana Technology Transfer Office for the state of Louisiana that, through its offices at LSU and NASA/SSC, provides technical assistance to Louisiana companies through NASA and other federal laboratories. Graduate and undergraduate students work on projects through the LBTC.

- The *Louisiana Cooperative Extension Service*, a division of the LSU Agricultural Center, is a statewide program that maintains agricultural agents and specialists in each of Louisiana's 64 parishes.

- The *Louisiana Geological Survey* performs geological investigations that benefit the state of Louisiana by encouraging the economic development of the natural (energy, mineral, water, and environmental) resources of the state, protecting the state and its citizens from natural, geological, and environmental hazards, and ensuring the transfer of geological information.

- The *LSU Writing Project*, a National Writing Project site established in 1984 and housed in the College of Education, supports university/P-12 partnerships dedicated to improving the quality of P-12 student writing. Serving 10 parishes in the southern part of the state, the project hosts invitational summer writing institutes, rural open institutes, P-12 administrators' writing retreats, and youth writing activities.

- *Louisiana State Youth Opportunities Unlimited (LSYOU)* is a College of Education program which assists Louisiana adolescent youth at high risk for dropping out in overcoming obstacles to their success.

- The *Louisiana Veterinary Medical Diagnostic Laboratory* provides a comprehensive animal disease diagnostic service to the agricultural and general communities.

- The *McKinley High Oral History Project* resulted in taped interviews now housed in the East Baton Rouge Parish Carver Branch Library. These tapes document the history of Old South Baton Rouge. The tapes represent

work stemming from a 10 year collaborative among the College of Education, T. Harry Williams Center for Oral History, School of Social Work, Service Learning Center, and the Old South Baton Rouge community. With impact locally and nationally, these oral histories highlight the important role the Old South Baton Rouge community played in the civil rights movement.

- The *Peripheral Neuropathy Exercise Intervention Project* focuses on physical activity for health and wellness for people with peripheral neuropathy. Department of Kinesiology faculty in the College of Education offer diagnostic services and provide information on peripheral neuropathy, as well as guide such interventions as Tai Chi, assisted walking, and infrared light therapy focused exercise.

- The *Positive Behavior Support Center* is a long-standing College of Education program for P-12 education which provides support to the Statewide Positive Behavioral Support Team, as well as related professional development and evaluation of school-wide PBS.

- The *Public Policy Research Laboratory* combines the talents and disciplinary perspectives of mass communication scholars, and political scientists. The lab offers an innovative approach to original public opinion research on behalf of policy makers, state and local government agencies, nonprofit organizations, media outlets, and academicians. It is a partnership of the Manship School of Mass Communications Reilly Center for Media & Public Affairs and the College of Arts & Sciences.

- *Psychological Services Center* offers assessment and treatment to adults and children for a variety of psychological and behavioral difficulties.

- *Speech-Language Hearing Clinic* offers diagnostic evaluation and management services for those with communication disabilities.

- The *Real Estate Research Institute* was established to encourage, support, and conduct research in real estate. Established in 1985, it is partially funded by the Louisiana Real Estate Commission.

- The *Reilly Center for Media & Public Affairs* provides symposia, forums and research on the relationships between the media and social, economic and political issues.

- The *Relation Station Matchbox Interaction Lab* in the Department of Communication Studies is used to videotape individuals and small groups of up to five performing experiential activities such as mock job interviews.

- The *Office of Community Design & Development* in the College of Art & Design, provides architectural, landscape, and interior design services, as well as community planning, technical assistance, and educational outreach to local communities, housing authorities, and community development corporations.

- The *Louisiana Council of the Southern Association of Colleges and Schools Council on Accreditation and School Improvement for P-12 schools (SACS-CASI)* partners closely with the College of Education, where it is housed. SACS-CASI is committed to assisting public and nonpublic elementary, middle, and secondary schools and school systems in Louisiana in efforts to achieve accreditation so as to ensure quality instruction for students.

- The *Office of Sea Grant Development* communicates the results of marine and coastal

research through practical assistance, educational programs, and various media products. Public service efforts are conducted through the Sea Grant Legal Program, Marine Extension Services, Advisory Services in Marine Recreation and Tourism, and the Communications Office.

- The *Office of Social Service Research & Development* assists social service agencies in the areas of research, program evaluation, program development, grant writing, technical assistance, information, specialized training, and advocacy activities.
- The *Spanish Education Project*, established in the College of Education in 2000, supports Spanish teacher education through educational guidance, information and materials, and workshops. Focus is on organizing and promoting cultural and artistic activities related to the Spanish language and Hispanic cultures.
- The *School of Veterinary Medicine, Veterinary Teaching Hospital & Clinics* offers tertiary, secondary, and primary care services for animals of the pet-owning public and animal industries of Louisiana and surrounding states. Specialty services in large and small animal internal medicine and surgery, cardiology, dermatology, avian and exotic animal medicine, radiation and medical oncology, ophthalmology, radiology, pathology, and theriology are available.
- The *Applied Math Clinic*, offered by the Department of Mathematics, works on mathematical modeling projects for local industries and provides "real-world" experience for advanced undergraduate math majors as a capstone experience.
- The *Stephenson Disaster Management Institute (SDMI)*, which is housed in the E. J. Ourso college of Business, was established to help save the lives of people and animals by continuously improving disaster response management through research and education.

The University also offers numerous cultural and entertainment events, including lectures, musical performances, and plays, to the community each year. In the College of Music & Dramatic Arts, the *Department of Theatre and Swine Palace Productions* present 10-12 theatrical productions, each of which runs over extended periods of time. The *School of Music* presents more than 250 recitals and concerts, many of which are free to the campus community and general public. These latter offerings include fully staged operas; choral, band, jazz, and orchestral concerts; and faculty and student recitals. The *LSU Music Academy*, run by the School of Music, offers private lessons on a wide variety of instruments and voice. In addition, LSU's museums—including the *Museum of Art*, the *Museum of Natural Science*, and the unique *Rural Life Museum and Windrush Gardens*—are open to all citizens.

THE CAMPUS

The University is located on more than 2,000 acres in the southern part of the city, bordered on the west by the Mississippi River. The University's more than 250 principal buildings are grouped on a 650-acre plateau that constitutes the main part of the campus.

Original campus architecture was based on the Renaissance domestic style of northern Italy (tan stucco walls, red tile roofs), with buildings that house most of the classrooms and administrative offices grouped around a double quadrangle and connected by colonnaded passageways. Architects of more recent campus

structures have succeeded in blending contemporary design with the older style of architecture.

The city of Baton Rouge—capital of the state of Louisiana, an inland port, and a major petrochemical center—has a metropolitan area population of around 766,000. According to history, the city's name is derived from a tall cypress tree that once stood at the present site of Louisiana's Old State Capitol marking the boundary between the hunting grounds of the Houma and the Bayou Goula Indians. The early French explorers called the tree *le baton rouge* (the red stick).

Geographically, Baton Rouge is the center of South Louisiana's cultural and recreational attractions with New Orleans about 80 miles to the southeast. Less than an hour's drive north lie the gently rolling hills of the antebellum country of the Feliciana parishes. The fabled French-Louisiana country of bayous, marshes, and lakes—about an hour's drive from the campus—offers opportunities for fishing, hunting, and other recreation.

ORGANIZATIONAL STRUCTURE

The chief administrative officer of LSU is the chancellor; directly responsible to the chancellor are the executive vice chancellor and provost, the athletic director, and the vice chancellor for communications and university relations. Reporting to the chancellor through the provost are the vice chancellor for finance & administrative services, the vice chancellor for research & economic development, the vice chancellor for strategic initiatives, and the vice chancellor for student life & academic services.

Office of the Chancellor

The chancellor is the chief administrative officer of the University and reports to the president of the LSU System.

Office of Academic Affairs

The *executive vice chancellor & provost* serves as both the chief academic officer and as the chief operating officer of the University. The executive vice chancellor & provost acts as chief administrative officer in the absence of the chancellor and represents the chancellor in both internal and external matters.

As chief academic officer, the executive vice chancellor & provost is responsible for the academic programs of the University. The administrative center for exercise of this responsibility is the Office of Academic Affairs.

The Council of Academic Deans and Directors, which serves in an advisory capacity to the executive vice chancellor & provost, meets monthly to review, deliberate, and make recommendations concerning academic matters.

The executive vice chancellor & provost work in tandem with the vice chancellor for finance & administrative services to prepare and monitor the operating budget for the University. The executive vice chancellor & provost also chairs the University Planning Council; leads, with and for the chancellor, programmatic, budgetary, and facility planning for the University; exercises responsibility for space allocation; and superintends the University's efforts in assessment, with responsibility for developing policies and

programs to ensure that the University is fully accountable in all aspects of its operations.

Office of Communications and University Relations

The *Office of Communications and University Relations* is a full-service communications and development organization that proactively fashions, manages, and delivers consistent messages promoting LSU's National Flagship Agenda; reaches key internal and external audiences; and helps LSU achieve international prominence. The office provides a full array of resources to all units of the University and helps focus LSU entities on a consistent course of action that promotes University goals among students, faculty, staff, parents, lawmakers, donors, the media, and business leaders across Louisiana and the nation.

The Office of Communications and University Relations is responsible for strategic goals designed to energize and support the fund-raising drives that will dramatically increase LSU's endowment by 2010, while carrying on LSU's long-standing educational objectives and promoting LSU's climb to international academic prominence.

Communications & University Relations supplies communications, design services, marketing, media relations, radio/television/photography services, and Web and new media services to LSU and its component colleges.

Office of External Affairs

Office of External Affairs oversees the unified voice of the University to all community and government leaders at the local, state, and national levels.

Office of Finance & Administrative Services

The *vice chancellor for finance & administrative services and comptroller* is responsible for a variety of business functions and institutional support services, including accounting, purchasing, cash management and disbursement, budgeting, plant and facilities, risk management, personnel, police, safety, parking, traffic, transportation, central stores, printing, campus mail, the golf course, vending, contracted ancillary services (dining and bookstore), Tiger Card operation, trademark licensing, LSU Student Union, and LSU Student Health Center.

Office of Institutional Advancement

The *Office of Institutional Advancement* is responsible for building long-term relationships between LSU and its various constituencies in order to stimulate greater understanding and financial support.

The primary function of the office is to assist in the cultivation of major donors to the University as well as coordination of the fundraising efforts of the three foundations that serve LSU—the LSU Foundation, Tiger Athletic Foundation, and the LSU Alumni Association. The office also manages university policies in regard to fundraising and acts as the liaison to all fundraising entities for the Chancellor. The office of Corporate and

Foundation Relations reports to Institutional Advancement.

Office of Research & Economic Development

The *vice chancellor for research & economic development* is responsible for the overall research and economic development efforts of the University. The Office of Research and Economic Development (ORED) focuses on maximizing the University's impact on the intellectual, economic and social development of Louisiana, the nation, and the world.

ORED's mission includes creating a rich environment that promotes advanced research, creative scholarship, and economic development. The Office coordinates the research efforts of more than 1,200 faculty involved in approximately 2,500 sponsored research projects. The faculty-driven Council on Research assists ORED with its mission.

The economic development focus of the Office includes developing corporate partnerships, encouraging entrepreneurial activities, and driving Louisiana's economy spearheading intellectual property development and commercialization efforts; developing of corporate partnerships; and encouraging entrepreneurial activities.

ORED also coordinates the nonformula component of the budget and acts as liaison to the legislature in this area; in addition, it coordinates the LSU congressional/federal agenda, keeping our congressional delegation abreast of research issues at the University.

Office of Strategic Initiatives

The *Office of Strategic Initiatives* (OSI) focuses on particular components of the University's overall strategic plan with an intense effort to pursue strategic initiatives that will produce:

- systemic improvements in the mentoring of faculty, students, and staff, with an emphasis on achieving excellence at all levels;
- coordinated efforts to enhance the receipt of external student awards (e.g., Rhodes, Marshall, and Goldwater Fellows);
- coordinated efforts to enhance the receipt of external faculty awards (e.g., Fulbright and Guggenheim Fellows);
- coordinated efforts to establish LSU as a leading provider of graduate degrees to underrepresented groups in a variety of disciplines;
- coordinated efforts to enhance and improve the number of students from underrepresented groups who pursue and complete undergraduate degrees at LSU in the science, mathematics, engineering, and technology areas;
- coordinated efforts with the Office of Academic Affairs to recruit outstanding faculty to the University, with special emphasis on faculty from underrepresented groups;
- direct partnership initiatives (e.g., LAMP and joint faculty appointments) with other Louisiana institutions;
- coordinated efforts to generate external awards, including funds and training grants, to support all of these efforts.

Achievement of the goals of this unit

requires a close alliance with other units throughout the University. Such units include, but are not limited to, the Office of Academic Affairs; the Honors College; the Graduate School; the Colleges of Arts & Sciences, Basic Sciences, Education, and Engineering; and the Center for Scientific, Technological, Engineering, & Mathematical Literacy. Collaborating units are represented on OSI's Advisory Board, which provides advice to the Vice Chancellor for Strategic Initiatives on both policy and programmatic issues.

Division of Student Life

The *vice chancellor for student life* is concerned with the quality of the living and learning environment for students both in and outside the classroom and assists students in reaching the highest possible level of intellectual and personal development. The Division of Student Life serves as the main link between the University and students and provides innovative and results-oriented programs, services, developmental opportunities, and quality-of-life facilities to enrich and complement the classroom experience.

Office of the Vice Chancellor and Director of Athletics

The vice chancellor and director of athletics manages a broad spectrum of intercollegiate sports programs for men and women. LSU is a charter member (1932) of the Southeastern Conference. LSU meets teams from other major universities in NCAA Division 1A competition in football, basketball (Men's & Women's), baseball, indoor and outdoor track and field (M&W), cross country (M&W), golf (M&W), tennis (M&W), swimming (M&W), women's gymnastics, women's volleyball, women's soccer, and women's softball.

LSU athletic teams have won 46 national championships and 115 Southeastern Conference championships since the beginning of the intercollegiate athletics program in 1893.

ENROLLMENT MANAGEMENT

The mission of Enrollment Management is to support and enhance the total educational experience of LSU students through a commitment to quality service that is responsive to student needs. Further, Enrollment Management seeks to attract and enroll a highly diverse class of first time and transfer students with outstanding ability and potential and subsequently to improve student retention and graduation commensurate with the goals of the University.

OFFICE OF UNDERGRADUATE ADMISSIONS & STUDENT AID

OFFICE • 1146 Pleasant Hall
TELEPHONE • 225-578-1175 or 225-578-3103
FAX • 225-578-4433
WEB SITE • www.lsu.edu/admissions

The *Office of Undergraduate Admissions & Student Aid* strives to provide excellent customer service in its efforts to actively recruit prospective students who have demonstrated academic and extracurricular excellence from a wide range of geographic and demographic

backgrounds.

This office is considered the "front door to LSU." The office staff welcomes students to the University through campus visits and tours, informative promotional mailings, various recruitment events, and counselor outreach programs. Campus tours are conducted every week day at 10:00 a.m., except University holidays. Office hours for undergraduate admissions & student aid are 8:00 a.m. to 4:30 p.m., Monday through Friday.

Admissions is responsible for processing freshman, transfer, re-entry, international, early/concurrent, athletic, and visiting student applications. The office is committed to making fair and timely decisions by evaluating prospective student's likelihood of success at LSU based on established educational requirements and admission policies.

The Admissions Division uses the internet to provide the most up-to-date information regarding admission to LSU. Prospective students can apply online, pay online, check their application status, communicate through e-mail, and learn about requirements as well as important deadlines.

Student Aid administers federally funded financial aid programs and university, state, and privately funded scholarships to assist students in meeting their educational costs. The federal programs include Pell Grants, Supplemental Educational Opportunity Grants (SEOG), Academic Competitiveness Grants (ACG), National SMART Grant, Work Study, Perkins Loans, Stafford Subsidized and Unsubsidized Loans, Parent Loan for Undergraduate Student (PLUS), Graduate PLUS Loan for graduate and professional students. All programs are subject to regulations authorized by the U. S. Department of Education, as well as University policies which are consistent with these federal regulations.

Scholarships are in the form of cash awards, full tuition and nonresident fee exemption, room and board scholarships, and employment opportunities to students who meet certain academic qualifications. Detailed information is available on the Web.

OFFICE OF THE UNIVERSITY REGISTRAR

OFFICE • 112 Thomas Boyd Hall
TELEPHONE • 225-578-1686
FAX • 225-578-5991
WEB SITE • www.lsu.edu/registrar

The *Office of the University Registrar* is responsible for maintaining timely and accurate records of academic progress and accomplishments of LSU's students while ensuring the privacy, integrity, and security of those records.

The office strives to provide excellent customer service to students, faculty members, administrators, alumni, and the public in the areas of record keeping, course scheduling, course registration, information management and data analysis. The Office of the University Registrar uses its central university position to add value to the information that it manages by participating in activities to recruit, retain, and graduate the most academically talented and diverse students possible.

CONTINUING EDUCATION

OFFICE • 2148 Pleasant Hall
TELEPHONE • 225-578-3162
FAX • 225-578-4800
WEB SITE • www.outreach.lsu.edu

LSU Continuing Education serves close to 36,000 participants each year through credit and non-credit outreach programs that support, promote, and enhance LSU's Flagship Agenda. Founded in 1924 to serve nontraditional students, Continuing Education provides flexible programs, using face-to-face and distance delivery methods. To address the diverse needs of lifelong learners, four distinct types of programs are offered: College Credit, Professional Development, Pre-College, and Personal Enrichment. Last year, through Continuing Education programs, LSU reached students of all ages in every Louisiana parish, every state in the nation, and 28 countries.

For more information about LSU Continuing Education programs, please see the chapter in this catalog entitled "Continuing Education."

EQUAL EMPLOYMENT OPPORTUNITY

LSU assures equal opportunity for all qualified persons in admission to, participation in, or employment in the programs and activities which the University operates without regard to race, creed, color, marital status, sexual orientation, religion, sex, national origin, age, mental or physical disability, or veteran's status, as well as to implement a procedure to address complaints for those who believe they have been subjected to discrimination and/or harassment in violation of this policy.

Anyone having questions or complaints regarding equal opportunity at LSU should contact the Office of Human Resource Management, 304 Thomas Boyd Hall, Baton Rouge, Louisiana 70803; telephone 225-578-8200.

FINANCES

LSU receives most of its funds from legislative appropriations. To view the current operating budget, please visit the Office of Budget & Planning Web site at <http://www.bgtplan.lsu.edu/budget.htm>.

Academic Programs

The State of Louisiana Board of Regents, in its *Master Plan for Higher Education*, designated LSU as Louisiana's single "comprehensive university."

LSU is also the "flagship university" of the state of Louisiana.

LSU is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools, to award bachelor's, master's, doctoral, and professional degrees.

LSU students have the opportunity to experience a rich diversity of courses, curricula, students, faculty, and settings that stimulate and challenge individual growth. As the state's comprehensive University, LSU offers numerous choices for intellectual development, career options, and cultural exposure. The undergraduate classroom is enhanced through LSU's research status, ensuring that students are aware of the most recent discoveries and are taught innovative modes of inquiry.

Bachelor's degrees are offered in 72 major fields, master's degrees are offered in 76 major fields, and doctoral degrees are offered in 54 major fields.

The University has no more important mission than to provide its students with outstanding learning opportunities. LSU offers undergraduate programs of study that are both rigorous and exciting. These programs attract bright, energetic students who wish to prepare for the career challenges of the 21st century.

UNDERGRADUATE DEGREES

Academic programs and services at LSU provide students with the opportunity to obtain a strong general education, explore a variety of fields and majors, and have direct contact with faculty in their major field. Freshmen are admitted to University College where they either declare a major or examine educational and career alternatives while completing the general education requirements. To complete degree requirements, students must meet the admission requirements of a senior college.

Students select from degree programs offered by ten senior colleges and schools.

College of Agriculture

Bachelor of Science
Bachelor of Science in Forestry

College of Art & Design

Bachelor of Architecture
Bachelor of Fine Arts
Bachelor of Interior Design
Bachelor of Landscape Architecture

College of Arts & Sciences

Bachelor of Arts
Bachelor of General Studies
Bachelor of Science

College of Basic Sciences

Bachelor of Science
Bachelor of Science in Geology

E. J. Ourso College of Business

Bachelor of Science

School of the Coast & Environment

Bachelor of Science in Coastal Environmental Science

College of Education

Bachelor of Science

College of Engineering

Bachelor of Science in Biological Engineering
Bachelor of Science in Chemical Engineering
Bachelor of Science in Civil Engineering
Bachelor of Science in Construction Management
Bachelor of Science in Electrical Engineering
Bachelor of Science in Environmental Engineering
Bachelor of Science in Industrial Engineering
Bachelor of Science in Mechanical Engineering
Bachelor of Science in Petroleum Engineering

Manship School of Mass Communication

Bachelor of Arts in Mass Communication

College of Music & Dramatic Arts

Bachelor of Arts
Bachelor of Music
Bachelor of Music Education

GRADUATE DEGREES

Graduate degrees that the University is currently authorized by the Board of Regents to offer are listed below. Please see the chapter "Graduate and Professional Programs" for additional information.

Master of Applied Statistics
Master of Architecture
Master of Arts in Teaching
Master of Arts
Master of Arts in Liberal Arts
Master of Business Administration
Master of Education
Master of Fine Arts
Master of Landscape Architecture
Master of Library & Information Science
Master of Mass Communication
Master of Music
Master of Natural Sciences
Master of Public Administration
Master of Science
Master of Science in Biological & Agricultural Engineering
Master of Science in Chemical Engineering
Master of Science in Civil Engineering
Master of Science in Electrical Engineering
Master of Science in Industrial Engineering
Master of Science in Mechanical Engineering
Master of Science in Petroleum Engineering
Master of Science in Systems Science
Master of Science in Engineering Science
Master of Social Work
Certificate of Education Specialist
Doctor of Musical Arts
Doctor of Philosophy
Doctor of Veterinary Medicine

COURSE OFFERINGS

Instruction is provided through a wide variety of on- and off-campus courses. The academic year is divided into fall and spring semesters and a summer term consisting of one or more sessions. Most classes are taught between 7:30 a.m. and 10 p.m., Monday through Friday.

The *fall semester* starts in mid-August and ends in mid-December; the *spring semester* lasts from January to May. The *summer sessions* are generally held from early June to early August. There are three intersession terms: between the fall semester and the spring semester, the spring semester and the summer term, and the summer term and the fall semester. During the three-week intensive *intersessions*, students attend classes for approximately three hours each day. Many students take advantage of the summer term and intersessions to expedite graduation, to take courses unavailable during the fall or spring, or to lighten their academic load for the following semester.

Some courses are taught through independent learning, online, or in off-campus locations through Continuing Education. These offerings provide maximum flexibility for students, particularly adult students and those who work during the day. Also available are educational opportunities through ROTC, the "Artist and Lecture Series," the Career Services Center, LSU-Baton Rouge Community College Cross-Enrollment Program, and LSU-Southern University cooperative programs.

SPECIAL PROGRAMS

Continuing Education offers instruction to traditional and non-traditional students by extending the educational services of LSU through a wide range of outreach efforts. Programs include off-campus credit and noncredit courses, certificates and degree programs; intersession courses; independent and distance learning (paper-based and online courses); programs for professional advancement, conferences, seminars; precollege programs, and other specialized instructional programs. For more information, see the section "Continuing Education" in this catalog.

Programs include a Master of Library & Information Science, offered at various locations throughout the state, a Master of Arts in Liberal Arts offered at Fort Polk, and the education specialist certificate offered in Shreveport. The School of Social Work offers the master's degree in social work at Natchitoches, Lake Charles, and Alexandria.

In addition, a program sponsored by the U.S. Army Corps of Engineers at the Waterways Experiment Station, Vicksburg, Mississippi, represents a consortium of LSU, Texas A&M, and Mississippi State University, each of which provides doctoral courses in various scientific fields.

Graduate courses in agriculture are offered throughout the state via compressed video.

The *Cox Communications Academic Center for Student-Athletes* is committed to personal growth, academic guidance/support, and the holistic development of each student-athlete and the quality of their experience. This is achieved through a

"student-centered" commitment to academics, career development, service, and personal development.

ARTIST AND LECTURE SERIES AND LECTURESHIPS

LSU sponsors artist and lecture series and lectureships to foster intellectual inquiry, stimulate dialog, and cultivate unique experiences with outstanding performance in a variety of fields. Among these programs are:

- Aesculapian Lecture Series in Veterinary Medicine
- Senator John Breaux Annual Symposium in Media and Public Affairs
- Chancellor's Distinguished Lectureship Series
- Deep South Conference in Communication Sciences & Disorders
- Design Week Visiting Critic, Robert Reich School of Landscape Architecture
- J. Norman Efferson Lectureship Series
- English Department Distinguished Visitor Series
- Festival of Contemporary Music
- Walter Lynwood Fleming Lectures in Southern History
- Flores MBA Program Distinguished Speaker Series
- Frank J. Germano Lecture Series in Civil Engineering
- Max Goodrich Distinguished Speaker Series in Physics and Astronomy
- Giles Wilkeson Gray Lecture Series in Communication Studies
- Alfred C. Glassell Jr. Lecture Series
- C. Greer Distinguished Speaker Series in Business Administration
- Holt B. Harrison/Harrison Paint Co./Elmira H. Harrison Lectureship
- Walter Hitesman Lecture Series in Mass Communication
- Hubert H. Humphrey Lectureship in Public Affairs
- J. W. Kistler Conference
- W. A. Lawrence Lecture
- School of Library & Information Science Beta Phi Mu Lecture Series
- Louisiana Environmental Lecture Series of the Coast and Environment
- LSU School of Art Artist in Residence
- Paula G. Manship College of Art & Design Lecture Series
- Paula G. Manship School of Music Guest Artist Series
- Marathon Speaker Series in Geology
- Modern History Colloquium
- E. J. Ourso College of Business Louisiana Looking Up, A Celebration of Entrepreneurship
- Pasquale Porcelli Distinguished Lecture Series in Mathematics
- Patrick Lecture Series in Nutrition, Food Science, and Wetland Science
- Evelyn Pruitt Geography Lecture Series
- William A. Pryor Lecture Series
- Readers & Writers Literary Forum
- Janice R. Sachse Visiting Artist Series
- School of Architecture Lecture Series
- Edward Douglass White Lectures
- L. J. Wilbert Memorial Lectures in Geology
- School of Music—Throughout each year, the School of Music presents a comprehensive series of concerts involving faculty and

student performers; orchestras; wind ensembles; jazz groups; gospel choirs; choral ensembles; chamber music; and opera.

- LSU Theatre and Swine Palace present six major productions each year, as well as a "Second Season" of student-directed workshop productions.

BOARD OF REGENTS' ACADEMIC POLICY

The University conforms to Board of Regents' requirements to ensure consistency of official documentation with the Regents' *Inventory of Degree and Certificate Programs*. The following standardized terms are used in LSU catalogs, diplomas, commencement programs, transcripts, and other official documents.

Degree • The title of the award conferred on students by a college, university, or professional school upon completion of a unified program of study (i.e., Bachelor of Arts, BA; Bachelor of Science, BS; Master of Science, MS; Master of Fine Arts, MFA; Master of Landscape Architecture, MLA; Doctor of Philosophy, PhD, etc.).

Degree Program • A grouping of campus-approved courses and requirements (i.e., minimum gpa, comprehensive examinations, English and mathematics proficiency) that, when satisfactorily completed by a student, will entitle him or her to a degree from a public institution of higher education.

Degree Designation • A degree designation for each authorized program at public institutions of higher education is listed in the Board of Regents' *Inventory of Degree and Certificate Programs*. Some professional programs require the name of the general subject area as part of the degree designation (i.e., Bachelor of Architecture, BArch; Master of Social Work, MSW; Juris Doctorate, JD, etc.).

Degree Subject Area • The primary discipline that constitutes the focus of a degree program. (For example, a Bachelor of Arts in history. In some cases, the degree subject area is part of the degree title, as in Bachelor of Architecture, Master of Landscape Architecture.) When a student satisfactorily completes a degree program, he/she will be entitled to a degree in the appropriate subject area (i.e., biology, history, English, etc.).

Degree Title • The complete label of a degree program, consisting of the degree designation and the degree subject area (i.e., Bachelor of Arts in history; Bachelor of Science in chemistry).

Curriculum • A description of the required and elective courses for a degree program.

Major • That part of a degree program that consists of a specified group of courses in a particular discipline or field. The name of the major is usually consistent with the degree subject area. A major usually consists of 25 percent or more of the total hours required in an undergraduate curriculum. Establishment of a major requires prior approval by the Board of Regents.

Minor • That part of a degree program that consists of a specified group of courses in a particular discipline or field. The minor usually consists of 15 percent or more of the total hours required in an undergraduate curriculum. Minors do not require prior approval by the Board of Regents.

Concentration • An alternative track of courses within a major, accounting for at least 30 percent of the *major requirements*. Establishment of a concentration does not require prior approval by the Board of Regents. Transcripts list degree titles, majors, minors, and concentrations. Diplomas list only the appropriate degree designations.

Undergraduate degrees that the University is currently authorized by the Board of Regents to offer are presented in the following tables by college. Minors and areas of concentration within degree programs are also listed. Please consult the appropriate senior college section for more information.

COLLEGE OF AGRICULTURE DEGREE PROGRAMS - UNDERGRADUATE						
DEPARTMENT	CURRICULUM/MAJOR (CIP CODE)	CURRICULUM CODE	DEGREE	# HRS.	CONCENTRATION	CONCENTRATION CODE
Agricultural Economics & Agribusiness	Agricultural Business (010101)	AGBU	BS	121	Agribusiness Finance	AGBFIN
					Agribusiness Management	AGBMGT
					International Business	INTBUS
					Rural Development	AGBRDV
Animal Sciences, School of	Animal, Dairy & Poultry Sciences (010901)	ADP	BS	124	Animal Science	ANIMAL
					Dairy Foods Technology	DRYFDS
					Dairy Production	DRYPRD
					Poultry Science	POULTR
					Science and Technology - Animal Science	SCITNA
					Science and Technology - Dairy Science	SCITND
				138	Science and Technology - Poultry Science	SCITNP
					Preveterinary Medicine - Animal Science	PVMEDA
					Preveterinary Medicine - Dairy Science	PVMEDD
					Preveterinary Medicine - Poultry Science	PVMEDP
Biological & Agricultural Engineering	For undergraduate degree, see the College of Engineering					
Food Science	Food Science & Technology (011001)	FDSCT	BS	122	Food Business/ Marketing	BUSMKT
					Food Chemistry & Analysis	FDCHAN
					Food Processing & Technology	PRTECH
					Food Safety/ Applied Microbiology	FDSAMB
					Pre-Med	PMFOOD

COLLEGE OF AGRICULTURE DEGREE PROGRAMS - UNDERGRADUATE						
DEPARTMENT	CURRICULUM/MAJOR (CIP CODE)	CURRICULUM CODE	DEGREE	# HRS.	CONCENTRATION	CONCENTRATION CODE
Human Ecology, School of	Child & Family Studies (190101)	HECF5	BS	124	Child & Family Studies	CHFS
					Early Childhood Administration & Leadership	ECAL
	Nutritional Sciences (301901)	NUTR	BS	128	Dietetics	HEDIET
					Nutritional Sciences/ Premedical	HENUTR
	Textiles, Apparel & Merchandising (521902)	HETAM	BS	120	Apparel Design	APPARL
					Merchandising	MERCHD
Textile Science					TEXTIL	
Human Resource Education & Workforce Development, School of	Agricultural Education - Grades 6-12 (131301)	AGED	BS	132		
	Business Education - Grades 6-12 (131303)	BUED	BS	132		
	Family & Consumer Science Education - Grades 6-12 (131308)	FCSE	BS	132		
	Human Resource Education (131201)	HRE	BS	132	Adult, Extension, International Education	ADEXIE
					Career Development	CARDEV
					Human Resource & Leadership Development	HRLD
Marketing Education - Grades 6-12 (131310)	MKED	BS	132			
Interdepartmental	Plant & Soil Systems (011101)	PLSYS	BS	127-129	Agricultural Pest Management - Entomology	APME
					Agricultural Pest Management - Plant Pathology	APMP
					Crop Management	CRPMGT
					Environmental Horticulture	ENVHRT
					Horticultural Science	HORTSC
					Landscape Management	LNDMGT
					Soil Science	SOILSC
					Turfgrass Management	TRFMGT
					Urban Entomology	URBENT

COLLEGE OF AGRICULTURE DEGREE PROGRAMS - UNDERGRADUATE

DEPARTMENT	CURRICULUM/MAJOR (CIP CODE)	CURRICULUM CODE	DEGREE	# HRS.	CONCENTRATION	CONCENTRATION CODE
Plant, Environmental & Soil Sciences, School of	Environmental Management Systems (030104)	ENSYS	BS	124	Environmental Analysis & Risk Management	EARM
					Policy Analysis	PLCYAN
					Resource Conservation	RESCON
Renewable Natural Resources, School of	Forestry (Forest Management) (030506)	FORM	BSF	128	Ecological Restoration	ECOLRS
					Forest Resource Management	FRMGMT
	Natural Resource Ecology & Management (030201)	NREM	BS	128	Conservation Biology	CNSVBL
					Fisheries & Aquaculture	FSHAQU
					Natural Resource Conservation	NTRSCN
					Preveterinary Medicine- Wildlife & Fisheries	PVMEDW
					Wetland Science	WTLNDS
					Wildlife Ecology	WLDECL
Wildlife Law Enforcement	WLDLAW					

COLLEGE OF ART & DESIGN DEGREE PROGRAMS - UNDERGRADUATE

DEPARTMENT	CURRICULUM/MAJOR (CIP CODE)	CURRICULUM CODE	DEGREE	# HRS.	CONCENTRATION	CONCENTRATION CODE
Architecture	Architecture (Five-year Program) (040201)	ARCH	Bachelor of Architecture (BArch)	162		
Art	Studio Art (500702)	STAR	Bachelor of Fine Arts (BFA)	120	Ceramics	CERAM
					Digital Art	DIGIT
					Graphic Design	GRDESN
					Painting & Drawing	PAINT
					Photography	PHOTO
					Printmaking	PRINT
Interior Design	Interior Design (040501)	ID	Bachelor of Interior Design (BID)	135		
Landscape Architecture, Robert Reich School of	Landscape Architecture (Five-year Program) (040601)	LA	Bachelor of Landscape Architecture (BLA)	159		

COLLEGE OF ARTS & SCIENCES DEGREE PROGRAMS - UNDERGRADUATE						
DEPARTMENT	CURRICULUM/MAJOR (CIP CODE)	CURRICULUM CODE	DEGREE	# HRS.	CONCENTRATION	CONCENTRATION CODE
Communication Sciences & Disorders	Communication Disorders (510204)	COMD	BA	120		
Communication Studies	Communication Studies (231001)	CMST	BA	120		
English	English (230101)	ENGL	BA	120	Creative Writing	ENCW
					Literature	ENLT
					Secondary Education - ENGL	ENGLSE
					Writing & Culture	WRITCU
Foreign Languages & Literatures	German (160501)	GERM	BA	120		
	Latin (161203)	CLATN	BA	120		
	Spanish (160905)	SPAN	BA	120	Secondary Education - SPAN	SPANSE
French Studies	French (160901)	FREN	BA	120	French & Francophone Cultural Studies	FFCS
					French & Francophone Political Studies	FFPS
					International Business	INTLBS
					International Studies	INTLST
					Literary Studies	LITSTD
					Secondary Education - FREN	FRENSE
Geography & Anthropology	Anthropology (450201)	ANTH	BA	120		
	Geography (450701)	GEOGA	BA	120		
		GEOGS	BS	120		
History	History (540101)	HIST	BA	120	Secondary Education - HIST	HISTSE
Interdepartmental	Economics (450601)	ECONA	BA	128	Empirical Economic Analysis	EEAEAS
	General Studies (240102)	GS	BGS	120	Health Sciences	HLTHSC
					Interdisciplinary Studies	INTDIS
					Leadership and Society	LDSC
					Studies in Organizations	STORGS
					Writing & Performing Arts	WPA
	International Studies (302001)	INTL	BA	120	Africa	AFRICA
					Asia	ASIA
					Colonialism & Diasporas	COLDIA
					Environment & Development	ENVDEV
					Europe	EUROPE

COLLEGE OF ARTS & SCIENCES DEGREE PROGRAMS - UNDERGRADUATE						
DEPARTMENT	CURRICULUM/MAJOR (CIP CODE)	CURRICULUM CODE	DEGREE	# HRS.	CONCENTRATION	CONCENTRATION CODE
Interdepartmental <i>(continued)</i>	International Studies (302001)	INTL	BA	120	Global Diplomacy	GLBDPL
					Global Studies	GLOBST
					Latin America	LATNAM
					Middle East	MDEAST
					Russia and Central Asia	RUSSCA
	Liberal Arts (240101)	LIBAR	BA	120	African & African American Studies	AAAS
					Art History	FA-AH
					Disaster Science & Management	DSM
	<i>Women's & Gender Studies (050207)</i>	<i>WGS</i>	<i>BA</i>	<i>120</i>		
Philosophy & Religious Studies	Philosophy (380101)	PHIL	BA	120	Religious Studies	REL
Political Science	Political Science (451001)	POLI	BA	120		
Psychology	Psychology (420101)	PSYCS	BS	120		
Sociology	Sociology (451101)	SOCL	BA	120-123	Applied Sociology	APSOCL
					Criminology	SOCJ
					Rural Sociology	RUSOCL

Note: *Italicized curriculum indicates that the program is currently suspended.*

COLLEGE OF BASIC SCIENCES DEGREE PROGRAMS - UNDERGRADUATE						
DEPARTMENT	CURRICULUM/MAJOR (CIP CODE)	CURRICULUM CODE	DEGREE	# HRS.	CONCENTRATION	CONCENTRATION CODE
Biological Sciences	Biochemistry (260202)	BCH	BS	125		
	Biological Sciences (260101)	BIOL	BS	125	Marine Biology	MARINE
					Secondary Education - BIOL	BIOLSE
	Microbiology (260502)	MBIO	BS	125		
Chemistry	Chemistry (400501)	CHEM	BS	128	Biological Chemistry	BCHEM
					Chemical Physics	CHEMPH
					Chemistry	CHEM
					Chemistry and a Second Discipline	CHEMSD
					Environmental Chemistry	ENVCHM
					Materials	CHMMAT
					Polymers	CHMPLY
					Pre-professional Chemistry	PPCHEM
					Secondary Education - CHEM	CHEMSE

COLLEGE OF BASIC SCIENCES DEGREE PROGRAMS - UNDERGRADUATE						
DEPARTMENT	CURRICULUM/MAJOR (CIP CODE)	CURRICULUM CODE	DEGREE	# HRS.	CONCENTRATION	CONCENTRATION CODE
Computer Sciences	Computer Science (110701)	CSC	BS	123	Computer Science and a Second Discipline	CSCSD
					Distributed Systems & Networking	CSDSN
					Software Engineering	CSCSEG
Geology & Geophysics	Geology (400601)	GEOLP	BS in Geology (BSGeol)	123	Environmental Geology	ENVGEO
					Geology	GEOLP
					Geophysics	GEOP
Mathematics	Mathematics (270101)	MATH	BS	120	Actuarial Science	MACTSC
					Applied/Discrete Mathematics	MADM
					Computer Science	MCSC
					Mathematical Statistics	MATHST
					Mathematics	MATH
					Secondary Education - MATH	MATHSE
Physics & Astronomy	Physics (400801)	PHYS	BS	129	Astronomy	ASTR
					Medical Physics	MPHYS
					Physics	PHYS
					Physics and a Second Discipline	PHYSD
					Secondary Education - PHYS	PHYSSE

E. J. OURSO COLLEGE OF BUSINESS DEGREE PROGRAMS - UNDERGRADUATE						
DEPARTMENT	CURRICULUM/MAJOR (CIP CODE)	CURRICULUM CODE	DEGREE	# HRS.	CONCENTRATION	CONCENTRATION CODE
Accounting	Accounting (520301)	ACCT	BS	121		
Economics	Economics (520601)	ECONS	BS	121	Empirical Economic Analysis	EEAE
	International Trade and Finance (521101)	ITF	BS	121	Empirical Economic Analysis	EEAI
Finance	Finance (520801)	FIN	BS	121		
Information Systems & Decision Sciences	Information Systems & Decision Sciences (521301)	ISDS	BS	121		

E. J. OURSO COLLEGE OF BUSINESS DEGREE PROGRAMS - UNDERGRADUATE

DEPARTMENT	CURRICULUM/MAJOR (CIP CODE)	CURRICULUM CODE	DEGREE	# HRS.	CONCENTRATION	CONCENTRATION CODE
Interdepartmental	General Business Administration (520201)	GBUS	BS	121		
Management, William W. and Catherine M. Rucks Department of	Management (520201)	MGT	BS	121	Entrepreneurship	ENTREP
					Human Resource Management	HUMRES
					Management	GENMGT
Marketing	Marketing (521401)	MKT	BS	121		

SCHOOL OF COAST & ENVIRONMENT DEGREE PROGRAMS - UNDERGRADUATE

DEPARTMENT	CURRICULUM/MAJOR (CIP CODE)	CURRICULUM CODE	DEGREE	# HRS.	CONCENTRATION	CONCENTRATION CODE
Interdepartmental	Coastal Environmental Science (400607)	CES	BS	120		

COLLEGE OF EDUCATION DEGREE PROGRAMS - UNDERGRADUATE

DEPARTMENT	CURRICULUM/MAJOR (CIP CODE)	CURRICULUM CODE	DEGREE	# HRS.	CONCENTRATION	CONCENTRATION CODE
Educational Theory, Policy & Practice	Early Childhood Education: PK-3 Teacher Certification (131210)	PK3CT	BS	125-127		
	Elementary Grades Education (131202)	ELED	BS	127-135	Four-Year Teacher Certification, Grades 1-5	1-5CRT
	<i>Secondary Education (131205)</i>			<i>128</i>	<i>Art</i>	<i>SEART</i>
Kinesiology	Kinesiology (131314)	KIN	BS	121-131	Athletic Training	ATHTR
					Fitness Studies	FITNES
					Health and Physical Education Teacher Certification	HPECRT
					Human Movement Sciences	HU-MVT
					Sports Studies	SP-STU
	Sport Administration (310504)	SPADM	BS	120	Sport Commerce	SPCOM
				Sport Leadership	SPLDR	

Note: Italicized curriculum indicates that the program is currently suspended.

COLLEGE OF ENGINEERING DEGREE PROGRAMS - UNDERGRADUATE						
DEPARTMENT	CURRICULUM/MAJOR (CIP CODE)	CURRICULUM CODE	DEGREE	# HRS.	CONCENTRATION	CONCENTRATION CODE
Biological & Agricultural Engineering	Biological Engineering (140501)	BE	BS in Biological Engineering (BSBE)	132		
Chemical Engineering, Gordon A. and Mary Cain Department of	Chemical Engineering (140701)	CHE	BS in Chemical Engineering (BSCHE)	132-134	Biomolecular	CHEBMC
					Environmental	CHEENV
					Materials	CHEMAT
Civil & Environmental Engineering	Civil Engineering (140801)	CE	BS in Civil Engineering (BSCE)	132		
	Environmental Engineering (141401)	EVEG	BS in Environmental Engineering (BSEnvE)	128		
Construction Management & Industrial Engineering	Industrial Engineering (143501)	IE	BS in Industrial Engineering (BSIE)	125		
	Construction Management (522001)	CM	BS in Construction Management (BSCM)	123		
Electrical & Computer Engineering	Computer Engineering (140901)	EEC	BS in Electrical Engineering (BSEE)	128		
	Electrical Engineering (141001)	EE		127		
Mechanical Engineering	Mechanical Engineering (141901)	ME	BS in Mechanical Engineering (BSME)	130-131		
Petroleum Engineering, Craft & Hawkins Department of	Petroleum Engineering (142501)	PETE	BS in Petroleum Engineering (BSPE)	130		

MANSHIP SCHOOL OF MASS COMMUNICATION DEGREE PROGRAMS - UNDERGRADUATE						
DEPARTMENT	CURRICULUM/MAJOR (CIP CODE)	CURRICULUM CODE	DEGREE	# HRS.	CONCENTRATION	CONCENTRATION CODE
Mass Communication	Mass Communication (090102)	MC	Bachelor of Arts in Mass Communication (BAMC)	128	Advertising	ADV
					Journalism	JOURN
					Political Communication	POLCM
					Public Relations	PR

COLLEGE OF MUSIC & DRAMATIC ARTS DEGREE PROGRAMS - UNDERGRADUATE						
DEPARTMENT	CURRICULUM/MAJOR (CIP CODE)	CURRICULUM CODE	DEGREE	# HRS.	CONCENTRATION	CONCENTRATION CODE
Music, School of	Music (500903)	MUSIC	Bachelor of Music (BM)	128	Brass	BRASS
					Composition	COMP
					Harp	HRP
					Organ	ORGN
					Percussion	PERC
					Piano Pedagogy	PIAPD
					Piano Performance	PIAPF
					Strings	STRNG
					Voice	VOICE
					Woodwind	WWIND
	Music Education (131312)	MUSED	Bachelor of Music Education (BMEd)	130	Instrumental	INSTM
					Vocal	VOCAL
	Music (500901)	MUSAR	BA	126		
Theatre	Theatre (500501)	THTR	BA	128	Arts Administration	ARTSAD
					Design/Technology	TD&T
					Literature, History, and Theory	LH&T
					Performance	PERF
					Theatre Studies	THTRST

UNDERGRADUATE MINORS		
MINOR CODE	DESCRIPTION	COLLEGE/DEPARTMENT
AAAS	African & African American Studies	College of Arts & Sciences
ADP	Animal, Dairy, and Poultry Sciences	College of Agriculture
AERO	Aerospace Engineering	Department of Mechanical Engineering
AGBU	Agricultural Business	Department of Agricultural Economics & Agribusiness
AGRMC	Agriculture for Students in Mass Communication	College of Agriculture
AGRO	Agronomy	School of Plant, Environmental & Soil Sciences
ANTH	Anthropology	Department of Geography & Anthropology
APM	Agricultural Pest Management	School of Plant, Environmental & Soil Sciences
APPST	Applied Statistics	Department of Experimental Statistics
AQUA	Aquaculture	School of Renewable Natural Resources
ARCHH	Architectural History	School of Architecture
ARTHS	Art History	College of Arts & Sciences
ASIAN	Asian Studies	College of Arts & Sciences
ASST	Aerospace Studies	Department of Aerospace Studies
BADM	Business Administration	E. J. Ourso College of Business
BE	Biological Engineering	College of Engineering
BIOL	Biological Sciences	Department of Biological Sciences
CCC	Chinese Culture and Commerce	College of Arts & Sciences
CERAM	Ceramics	School of Art
CHEM	Chemistry	Department of Chemistry
CHIN	Chinese	Department of Foreign Languages & Literatures
CLCV	Classical Civilization	Department of Foreign Languages & Literatures
CM	Construction Management	Department of Construction Management & Industrial Engineering
CMDSN	Community Design	School of Architecture
CMST	Communication Studies	Department of Communication Studies
CSC	Computer Science	Department of Computer Science
DANCE	Dance	College of Music & Dramatic Arts

UNDERGRADUATE MINORS		
MINOR CODE	DESCRIPTION	COLLEGE/DEPARTMENT
DMART	Digital Media AVATAR Arts	School of Art
DMTEC	Digital Media AVATAR Technology	College of Engineering
DSM	Disaster Science and Management	College of Arts & Sciences
ECE	Electrical & Computer Engineering	Department of Electrical & Computer Engineering
ECON	Economics	College of Arts & Sciences
EMS	Environmental Management Systems	School of Plant, Environmental & Soil Sciences
ENGL	English	Department of English
ENSH	Entrepreneurship	Department of Management
ENTM	Entomology	Department of Entomology
EVEG	Environmental Engineering	Department of Civil & Environmental Engineering
FMA	Film & Media Arts	College of Arts & Sciences
FISH	Fisheries	School of Renewable Natural Resources
FNART	Fine Art	School of Art
FOR	Forestry	School of Renewable Natural Resources
FREN	French	Department of French Studies
GEOG	Geography	Department of Geography & Anthropology
GEOL	Geology	Department of Geology & Geophysics
GERM	German	Department of Foreign Languages & Literatures
GREK	Greek	Department of Foreign Languages & Literatures
HIST	History	Department of History
HLTHS	Health Sciences - KIN	College of Education
HORT	Horticulture	School of Plant, Environmental & Soil Sciences
HRTCN	Heritage Conservation	School of Architecture
INTL	International Studies	College of Arts & Sciences
ITAL	Italian	Department of Foreign Languages & Literatures
ITM	Information Technology Management	Department of Information Systems & Decision Sciences
JEWST	Jewish Studies	College of Arts & Sciences
LATN	Latin	Department of Foreign Languages & Literatures

UNDERGRADUATE MINORS		
MINOR CODE	DESCRIPTION	COLLEGE/DEPARTMENT
LDDEV	Leadership Development	School of Human Resource Education & Workforce Development
LING	Linguistics	College of Arts & Sciences
MATH	Mathematics	Department of Mathematics
MATSC	Materials Science and Engineering	Department of Mechanical Engineering
MCGEN	Mass Communication - General	Manship School of Mass Communication
ME	Mechanical Engineering	Department of Mechanical Engineering
MUSIC	Music	College of Music & Dramatic Arts
NCPE	Nuclear Power Engineering	Department of Mechanical Engineering
NS	Nuclear Science	College of Basic Sciences
NTSCI	Nutritional Sciences	College of Agriculture
OCS	Oceanography & Coastal Sciences	Department of Oceanography & Coaster Sciences
OHS	Occupational Health & Safety	Department of Construction Management & Industrial Engineering
PAINT	Painting & Drawing	School of Art
PHIL	Philosophy	Department of Philosophy & Religious Studies
PHOTO	Photography	School of Art
PHYS	Physics	Department of Physics & Astronomy
PLCOM	Political Communication	Manship School of Mass Communication
POLDC	Political Discourse Studies	College of Arts & Sciences
POLI	Political Science	Department of Political Science
PRFLD	Professional Leadership	Department of Military Science
PRINT	Printmaking	School of Art
PSYC	Psychology	Department of Psychology
QRE	Quality & Reliability Engineering	Department of Construction Management & Industrial Engineering
REL	Religious Studies	Department of Philosophy & Religious Studies
RSOCL	Rural Sociology	College of Arts & Sciences
RUSS	Russian	Department of Foreign Languages & Literatures
SCULP	Sculpture	School of Art
SGENG	Sugar Engineering	College of Engineering

UNDERGRADUATE MINORS		
MINOR CODE	DESCRIPTION	COLLEGE/DEPARTMENT
SOCL	Sociology	Department of Sociology
SPAN	Spanish	Department of Foreign Languages & Literatures
SPED	Special Education - Mild/Moderate Disabilities	Department of Education Theory, Policy & Practice
SPSTU	Sports Studies	Department of Kinesiology
STENG	Structural Engineering	Department of Civil & Environmental Engineering
SURV	Surveying	College of Engineering
SWK	Social Work	School of Social Work
TECHS	Technical Sales	College of Engineering
THTR	Theatre	College of Music & Dramatic Arts
TENGR	Transportation Engineering	Department of Civil & Environmental Engineering
TMA	Textiles, Merchandising, and Apparel	School of Human Ecology
VED	Vocational Education	School of Human Resource Education & Workforce Development
VIS	Visual Communication for Students in the College of Art & Design	Manship School of Mass Communication
VISD	Visual Communications	School of Art
WGS	Women's & Gender Studies	College of Arts & Sciences
WECOL	Wildlife Ecology	School of Renewable Natural Resources

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Student Life

The University is committed to the concept of student growth and development through active participation in the University's living and learning environment. Students will maintain and develop their physical and mental health, sense of self-worth, ability to work with and lead others, understanding of citizenship obligations, concern for the campus environment, ability to think critically and ethically, and a sense of belonging to the University and global communities. To foster development of these qualities, a comprehensive range of programs and services has been designed for students to encourage full participation in the life of the University; to promote intellectual development, leadership, and civic responsibility; and to contribute to personal growth.

AFRICAN AMERICAN CULTURAL CENTER

OFFICE • 100 Raphael Semmes Road
TELEPHONE • 225-578-1627
FAX • 225-578-1504
WEB SITE • www.lsu.edu/aacc

The *African American Cultural Center* (AACC) implements educational, cultural, and social activities that acknowledge and address the needs of African American students at LSU. Through programmatic efforts, the center also provides a venue for all students to learn about the African American culture, heritage, and traditions thereby striving to create a better knowledge and understanding of the African American experience.

CAMPUS LIFE

OFFICE • 350 LSU Student Union
TELEPHONE • 225-578-5160
FAX • 225-578-9311
WEB SITE • www.lsu.edu/campuslife
E-MAIL • campuslife@lsu.edu

The mission of Campus Life is to enhance student learning through innovative initiatives focused on involvement, leadership, and service that enrich the LSU experience. Campus Life supports these innovative initiatives through leadership development, activities, student organizations and volunteerism.

Activities - With a professional programming staff to advise its members, Student Activities Board and Tigers After 10 Commission seek to educate and entertain the campus while developing the newest generation of student leaders on campus. Whether it is musical performances, hot topics, popular culture, or exposure to cultural events and different cultures, students can always find something to do on campus.

Volunteerism - With its campus and community service programs and networking opportunities, Volunteer LSU is the heart of student volunteer efforts. The student leaders of Volunteer LSU coordinate major campus service traditions, like Community Bound each fall. New service initiatives each semester are focused areas such as youth programs, disaster relief and emergency preparedness, Baton Rouge restoration and beautification, civic and social awareness, and health and wellness outreach.

Campus Involvement and Student Organizations - With more than 350 registered student organizations, there is a place for every LSU student to be involved at LSU. This area provides the oversight, support, and training for student organizations. For the most up-to-date list of student organizations, visit www.lsu.edu/campuslife.

Leadership Development - Leadership development is an integral part of a student's success at LSU. In Campus Life, staff and students implement campus-wide leadership development programs to enhance the academic experiences of the student body. This area includes hosting leadership development programs, coordinating leadership conferences, and providing specific training for individuals who wish to become campus leaders.

Through these experiences, Campus Life intends to assist students to become well-rounded individuals, both inside and outside of the classroom.

CAREER SERVICES

OFFICE • B-4 Coates Hall (Student Services);
1502 Patrick F. Taylor Hall (Employment Services)
TELEPHONE • 225-578-1548 (Student Services);
225-578-2162 (Employment Services)
FAX • 225-578-8927 (Student Services)
225-578-3076 (Employment Services)
WEB SITE • www.lsu.edu/career
E-MAIL • career@lsu.edu

The mission of Career Services is to assist students and alumni in choosing careers, obtaining career-related work experiences while in school, developing job search skills, and securing employment or admission to graduate or professional school.

Career Decision Making provides assistance in self-assessment for the purpose of planning a career. Services include choosing the right major and career; career testing and interpretation; specialized programming for first-year students; and the Career Information Center.

Experiential Education combines academic study with on-the-job, career-related work experience. Cooperative education programs, internships, summer jobs, part-time jobs, and volunteer opportunities are all offered to assist students in this area.

Job Search teaches lifelong skills in finding employment. Services available include individual appointments, addressing résumés, cover letters, networking interview and job search strategies.

Employment Services connects students and alumni with employers. Careers2Geaux, the On-Campus Interviewing Program, one-day interviewing programs, résumé referrals, Tiger Network and other recruiting and networking events are all available for the benefit of students and alumni.

CENTER FOR ACADEMIC SUCCESS

OFFICE • B31 Coates Hall
TELEPHONE • 225-578-2872
FAX • 225-578-2696
WEB SITE • www.cas.lsu.edu
E-MAIL • cas@lsu.edu

The *Center for Academic Success* (CAS), named the Outstanding Learning Center in the Nation in 2004, is the central learning center at LSU for students interested in learning efficiency and effectiveness. Because tutoring is not just for students who are "in trouble," the CAS offers resources that help all students maximize their experience at LSU, from first year through graduate and professional school. The CAS faculty and staff take a cognitive science-based approach to assisting students with creative and personalized strategies to ensure their academic success.

Free resources available to LSU students include:

- A nationally recognized Web site with

information on effective learning strategies and time management tools at www.cas.lsu.edu that provides online learning style self-tests and learning strategies workshops (www.lsu.edu/learn), and consultations and workshops on learning strategies.

- Tutorial centers and collaborative study groups:
 - Biology/Chemistry Tutorial Center in Coates 263
 - Mathematics Tutorial Center in B29 Allen Hall
 - Physics Tutorial Center in 102 Nicholson
 - Supplemental Instruction (SI) sessions for group study in targeted sections of introductory level courses, such as biology and chemistry

OFFICE OF THE DEAN OF STUDENTS

OFFICE • 116 Johnston Hall
TELEPHONE • 225-578-4707
FAX • 225-578-5637
WEB SITE • www.lsu.edu/deanofstudents

The *Office of the Dean of Students* (ODOS) is composed of units that provide direct support to LSU students and assist in promoting involvement, leadership development, a responsible and respectful campus community, and students' long-term success. The departments within ODOS are Campus Life, Disability Services, Greek Life, Student Advocacy and Accountability, and advising and financial administrative support for Student Government.

Student Government is the officially recognized student organization that represents student interests, promotes student involvement in decision making, and promotes the general welfare of the LSU student body.

ODOS fosters collaboration with constituents throughout campus to maximize student success and to create a supportive learning environment. In addition to facilitating student development and responsibility, staff members also serve as advocates for student interests. LSU values its students and strives to provide a variety of programs, services, and experiences that meets students' needs. Our vision is to empower students to be engaged and responsible contributors to campus and the global community. LSU's commitment to community serves as a guiding document to assist the entire LSU campus in having pride in our institution and respecting the people who faithfully commit to the principles within the commitment to community.

DISABILITY SERVICES

OFFICE • 111 Johnston Hall
TELEPHONE • 225-578-5919 (voice);
225-578-2600 (TDD)
FAX • 225-578-4560
WEB SITE • www.lsu.edu/disability
E-MAIL • disability@lsu.edu

The *Office of Disability Services* assists students in identifying and developing accommodations and services to help overcome barriers to the achievement of personal

and academic goals. Services are provided for students with temporary or permanent disabilities. Accommodations and services are based on the individual student's disability-based need. Students must provide current documentation of their disabilities. Students should contact the office early so that necessary accommodations can be arranged.

FIRST YEAR EXPERIENCE

OFFICE • 128 Johnston Hall
TELEPHONE • 225-578-1188
FAX • 225-578-4820
WEBSITE • www.lsu.edu/fye
E-MAIL • fye@lsu.edu

The First Year Experience (FYE) facilitates the creation of a culture which is student centered and provides a guide to academic success at LSU. The initiatives inform students of the University's academic expectations and provide resources to facilitate an enriching educational experience. FYE strategically connects students to resources available for success. Offerings include a comprehensive orientation program, academic support, campus involvement, community engagement, and experiential learning. A student's engagement with each of these areas positively impacts retention and graduation.

Orientation - New student orientation is the University's welcome program for all incoming students. Students have the opportunity to learn more about LSU, take advanced standing exams, and schedule classes. Orientation programs set the tone for success during the first year as well as the future.

S.T.R.I.P.E.S. - The S.T.R.I.P.E.S. (Student Tigers Rallying, Interacting, and Promoting Education and Service) is a four-day retreat designed to prepare first year students for the transition to LSU. Key components of the program include sections on college readiness, history and traditions, campus involvement, relationship building, and student resources.

Bengal Bound - Bengal Bound is the University's official welcome week. The programs and activities are designed to ease the transition and allow students to feel settled before the first day of classes. The Bengal Bound Web site provides valuable information on the many campus resources available.

LSU Ambassadors - The LSU Ambassadors are a distinctive organization of student leaders selected to support the University's orientation and recruitment programs, encourage pride and spirit in the LSU community, and provide diligent service to the LSU campus. Ambassadors are available to assist their fellow students throughout their time spent under LSU's oaks and arches - from orientation to graduation.

Parent & Family Programs - Parent & Family Programs coordinates the family orientation programs that coincide with new student orientation and offers ongoing outreach and education to foster a stronger connection between families of current students and the University community.

LSU Family Association - The LSU Family Association serves the parents and families of current students through special

events, newsletters, and opportunities to partner with the University in enhancing students' educational experiences. There is a one-time membership fee.

GREEK LIFE

OFFICE • 472 LSU Student Union
TELEPHONE • 225-578-2171
FAX • 225-578-2450
WEB SITE • www.lsu.edu/greeks
E-MAIL • greeks@lsu.edu

Greek Life provides support for individuals and organizations that comprise the fraternal community at LSU. Greek Life staff members develop, implement, and coordinate programs and services that address member education, personal development, academic success, philanthropic activities, leadership development, and social activities. For a current list of fraternity and sorority chapters, please visit www.lsu.edu/greeks. Specific questions or inquiries can be addressed to greeks@lsu.edu.

HONOR SOCIETIES

Three of the most prestigious University honor societies are *Omicron Delta Kappa*, *Phi Beta Kappa*, and *Phi Kappa Phi*. Other honor societies are listed at the Campus Life Web site: www.lsu.edu/campuslife.

Omicron Delta Kappa

Omicron Delta Kappa (ODK) is the national leadership honor society for college students that recognizes and encourages superior scholarship, leadership, and exemplary character. It was founded in 1914 at Washington and Lee University, Lexington, Virginia. ODK was the first college honor society of national scope to recognize and honor meritorious leadership and service in extracurricular activities and to encourage the exercise of general campus citizenship.

Membership is awarded to undergraduate junior and senior students—and occasionally to students in graduate and professional schools—as well as to faculty, staff, and community members. Student membership candidates must rank academically in the upper 35 percent in their school/college and must show leadership in at least one of five areas: scholarship; athletics; campus or community service, social activities, religious activities, and campus government; journalism, speech, or the mass media; and creative/performing arts. Membership in ODK is a mark of the highest distinction.

Phi Beta Kappa

The oldest academic society in the U.S., *Phi Beta Kappa* was founded in 1776 at the College of William and Mary. The LSU chapter was installed in 1977 as Beta of Louisiana. For more than two centuries, Phi Beta Kappa has advocated the ideal of a liberal education as a basis for a life-long love of learning and as a way to broaden the perspectives of students, whatever their chosen field of endeavor. At LSU, juniors and seniors with an excellent academic record and an adequate breadth of study are considered for membership. Specific requirements are

described at the Phi Beta Kappa Web site which is located at:
www.lsu.edu/student_organizations/phiбетakappa/.

Phi Kappa Phi

Founded in 1897 at the University of Maine, *Phi Kappa Phi* is the nation's oldest, largest, and most selective honor society for all academic disciplines. Its chapters are on nearly 300 campuses in the United States, Puerto Rico, and the Philippines. Each year, approximately 30,000 members are initiated. Some of the organization's more notable members include former President Jimmy Carter, writer John Grisham, NASA astronaut Wendy Lawrence, and Netscape founder James Barksdale. The LSU chapter was founded in 1930 as the 43rd chapter in the nation.

The mission of Phi Kappa Phi is to recognize and promote academic excellence in all fields of higher education and to engage the community of scholars in service to others. Phi Kappa Phi is unique because it recognizes superior scholarship in *all academic fields*, rather than restricting membership to a limited field. Juniors in the top 7.5 percent and seniors and graduate students in the top 10 percent of their classes may be invited to become members of Phi Kappa Phi. New LSU Phi Kappa Phi members are initiated and honored in the spring semester each year and wear identifying ribbons on their academic gowns at commencement exercises. Additional information about the Society may be found at www.phikappaphi.org.

LSU CHILD CARE CENTER

Gourrier Avenue
 Phone: 225-578-7882
 FAX: 225-578-7562
 WEB SITE: www.lsu.edu/childcare

The LSU Child Care Center has been accredited by the National Association for the Education of Young Children and offers a high quality child care program to students, staff, and faculty. The center exceeds state and national standards that guide developmentally appropriate programs for young children.

Priority for eligibility is given according to the following guidelines:

- Children of full-time students, staff, and faculty of LSU
- Siblings of currently enrolled students
- Children of those individuals with secondary affiliations to LSU (i.e., part-time students, part-time staff, and adjunct faculty, LSU alumni, grandchildren of LSU students, staff, or faculty, individuals working for the LSU system)
- Children of the community, families who have no affiliation to LSU

Facility

The LSU Child Care Center is a 15,500 square foot one-story facility with separate spaces for 175 full-time children from different age groups ranging from six weeks old to five years old. The center includes 15 classrooms (based on Louis Torelli's pod design), parent and teacher resource center, multi-purpose room, kitchen, porches off of

each classroom for play during rainy weather, and three fenced playground areas (75 square feet per child) with toys and play equipment for infants, toddlers, and preschoolers.

Services

The philosophy of LSU Child Care Center is one of freedom to learn, grow, and make choices through both structured and unstructured activities. All activities are intentionally planned to help children grow and develop physically, socially, emotionally, and cognitively. The learning atmosphere is one of acceptance, mutual respect, pleasure, fairness, consistency, clear limits and expectations, and encouragement. The predictable, organized environment, with caring adults, clear expectations, and appropriate consequences is designed to support the whole child. Teachers are flexible and allow the children freedom to learn at their own pace.

Families are an integral part of the LSU Child Care Center program. Support, encouragement, and assistance are provided to ensure personal and professional success for parents. Communication with the child's family is established to share day-to-day happenings and gain new insights about the family's beliefs and concerns regarding the child's well-being.

Infant/Toddler Program

A complete developmental program for infant/toddlers provides caring and individualized human interaction through activities that promote language, movement, and self-awareness. Daily lesson plans are based on each individual child's needs.

Preschool Program

The preschool program provides learning activities through play, the child's natural path to learning. Daily lesson plans respond to the child's individual needs and provide activities to enhance a child's development in the four developmental domains: cognitive, socio-emotional, physical, and language. The Center uses the standards and goals defined by the Louisiana Department of Education as measures for developmental and academic success for kindergarten readiness.

LSU STUDENT UNION

OFFICE • 400 LSU Student Union Building
 TELEPHONE • 225-578-5124
 INFO CENTER • 225-578-5141
 FAX • 225-578-4329
 WEB SITE • www.lsu.edu/union

The *LSU Student Union*, located in the heart of the campus, serves as LSU's community center by providing facilities, services, and programs for students, faculty, staff, alumni, and friends of the University. The Union is supported by student fees and by a variety of retail and service enterprises located in the building. Students are automatically members of the Union through their student fees. Faculty, staff, alumni, and friends of the University may become members by paying an annual fee.

The Union is the site for a wide range of programs and events designed to appeal to all segments of the University community. Programs include lectures, performing arts, visual arts, films, concerts, comedians, and a large number of noncredit leisure classes. Information on programs, student committees, and student leadership opportunities in the Union are available in the Campus Life office, 358 Student Union, 225-578-5118, and on the Campus Life Web site.

The Union provides a variety of facilities, services, and conveniences to meet the needs of the campus community. The *LSU Bookstore* offers textbooks, trade books, LSU Tigerwear, gifts, and merchandise, and *eCommons*, a "literary café" featuring Starbucks coffee. *LSU Dining* offers the Tiger Lair food court, the Magnolia Room restaurant, Einstein Bros. Bagels (opening 2009), and a McDonald's restaurant. *LSU Catering* offers a full line of catered services for banquets and luncheons.

Banking machines (ATMs) are located on the first floor. *Campus Federal Credit Union*, which offers student accounts, has a branch located on the ground floor of the Union. Also located on the ground floor are the *Barbershop*, *Cox Communications*, walk-up e-mail terminals, and a billiards room. The *Post Office* is temporarily located across the street on the east side of the Faculty Club.

On the main floor, patrons will find the *Art Gallery*, which offers a variety of local and national exhibits year round. The *Information Center* provides patrons with candy, a copy shop, and sundry items. The *Union Theater* (closed for renovation in 2009-10) is host to the School of Music concerts, Broadway shows, dance performances, and many performing arts events throughout the year. The *Box Office* sells tickets for Reilly and Union Theater events. The University's ID card operation and the TigerCASH debit card services are located in the *Tiger Card Office*. The front lounge overlooks a beautiful view of oak trees and the LSU Parade Ground, while the center lounge rests beneath the Union's skylights. A new lounge on the first floor provides a view of the Memorial Oak Grove.

In the new addition on the third floor, customers will find the *Student Technology Learning Center* where students will find a computer lab and Internet connections. The *Event Management Office*, located in room 400, processes more than 6,000 reservation requests annually for Union facilities and campus grounds. Information on student job opportunities in the Union can also be found in 400 Student Union.

The Union is currently under renovation. Check the Union Web Site for updates on service hours and operations.

Tiger Card Office

OFFICE • 207 LSU Student Union
 TELEPHONE • 225-578-4300
 FAX • 225-578-4585
 WEB SITE • www.tigercard.lsu.edu
 E-MAIL • tigercard@lsu.edu

The *Tiger Card Office* provides the official LSU identification card, the debit card system TigerCASH, and voter registration

services. New students are issued their first ID card at no cost. The ID card is the property of the University and must be retained for each subsequent term of enrollment. The card should be carried at all times and must be presented upon request of any University official. The card is non-transferable.

TigerCASH, a fee debit card service, provides a fast, safe, and convenient way to make purchases at various locations on and off campus. *TigerCASH* is accepted at all dining facilities as well as several merchants off campus. *TigerCASH* is the only way to copy and print documents on campus. It is accepted at vending machines and all laundry facilities. If your card is lost or stolen, a call to the Tiger Card Office will stop access to your account until you replace your card. With *TigerCASH*, there is no minimum deposit or semester fee and accounts roll over from semester to semester until the student graduates or resigns. As long as you have a positive balance in your *TigerCASH* account, you will enjoy convenient purchasing power both on campus and off campus. Visit the Tiger Card Office Web site for a detailed listing of locations that accept *TigerCASH* at www.tigercard.lsu.edu. Deposits can be made at the Tiger Card Office, online at our Web site, or at the new *TigerCASH* kiosk, located on the first floor of the LSU Student Union.

More information is available at the Tiger Card Office, 207 LSU Student Union, or by calling 225-578-4300. By using *TigerCASH* you are accepting the Terms of Agreement.

MULTICULTURAL AFFAIRS

OFFICE • 326 A LSU Student Union
TELEPHONE • 225-578-4339
FAX • 225-578-7135
WEB SITE • www.lsu.edu/oma

The *Office of Multicultural Affairs* (OMA) seeks to create an environment at LSU that embraces individual difference, sustains inclusion, and cultivates a campus atmosphere that is free from bias. OMA strives to facilitate the academic excellence, personal growth, and social experiences of all students with specific commitments to students of color and other traditionally underrepresented groups. OMA provides a variety of programs and services that reflects the cultural diversity LSU has to offer.

PARKING, TRAFFIC & TRANSPORTATION

OFFICE • Public Safety Building
TELEPHONE • 225-578-5000
FAX • 225-578-5588
WEB SITE • www.lsu.edu/parking

LSU is committed to providing ample on-campus parking and transportation for all students, employees, and visitors. To legally park a vehicle on campus, faculty and students must register and obtain a permit from the *Office of Parking, Traffic & Transportation*. The Office of Parking, Traffic & Transportation also provides Campus Transit which is a safe and convenient method of on-campus transportation for students to move around campus after hours. The Office of Parking, Traffic & Transportation also partners to provide campus-wide bus service.

The LSU Tiger Trails Transit System provides a safe, convenient, and free bus service for LSU students, faculty, staff, and visitors, both on and off campus.

For additional information, call 578-5000.

PUBLIC SAFETY

OFFICE • Public Safety Building
TELEPHONE • 225-578-3231
FAX • 225-578-0536
WEB SITE • www.lsu.edu/publicsafety

The University is dedicated to preserving a peaceful and safe environment for the entire University community. Students, faculty, staff, and visitors are urged to be aware of and alert to the possible existence of criminal activity on campus and to report all crimes or suspicious activity to the University Police.

The *University Police Department* is staffed 24 hours a day. Police officers assigned to patrol areas throughout the campus will respond promptly to any call and have the capacity to request municipal fire, EMS, or police support, as required. The department has 70 full-time officers and each has completed formal police training and is certified by the Police Officers Standards and Training Council. The department provides a full range of law enforcement services, including criminal investigations, emergency services, and crime prevention services, for a campus population larger than most cities in the state. Administrative responsibility for safety, security, and police service rests with the Vice Chancellor for Finance & Administrative Services through the Executive Director of Public Safety.

The University Right to Know/Campus Security Act report is available on the Internet at www.lsu.edu/police. The Web page includes crime statistics, crime alerts, and security policies and procedures. A copy of the report may be obtained by contacting the Office of Public Safety or the University Police Department.

RESIDENTIAL LIFE

OFFICE • 99 Grace King Hall
TELEPHONE • 225-578-8663
FAX • 225-578-5576
WEB SITE • www.lsu.edu/reslife
E-MAIL • reslife@lsu.edu

To make on-campus living an enriching experience, LSU students and staff have designed a residential life program to promote learning and personal growth. Residence halls and apartments provide a natural and convenient social setting for students. Residents are seldom more than a 10-minute walk from the library, classes, or campus activities.

One of the greatest advantages in living in residence halls is that the staff is available to assist students with concerns and questions. Studies show that campus residents maintain higher grade point averages than do off-campus students. The housing staff also provides informative programs related to safety, wellness, community service, and a variety of other topics. Many of these programs are led by faculty members.

Prospective students must first be admitted to the University before applying for on-campus housing. The Department of Residential Life begins accepting housing applications on the June 1 preceding the academic year they are applying for (example: students applying for housing for fall 2010 may submit their application beginning June 1, 2009).

If a student has not been admitted to the University first and submits a housing application/contract, Residential Life will return these items, including the deposit. A student may resubmit these items once he or she is admitted to the University. The application date for priority consideration is not established until the student has been admitted and has submitted an application for housing with the deposit. The housing application may be completed online or mailed.

Choices in Residential Living

LSU has 17 residence halls with architectural styles ranging from northern Italian Renaissance, typical of the older campus, to modern buildings. Also for single students there are 184 apartments in a complex called the *East Campus Apartments* (ECA) and 168 apartments in a complex called the *West Campus Apartments* (WCA). For married students, single parents, students 21 years or older, and post-doctoral students and research associates, there are 578 apartments in the *Nicholson* and *Edward Gay Apartments*.

Most residence halls have ground-floor reception areas and study rooms on each level. Entry to all halls is controlled by a security system that utilizes residents' LSU ID cards. Coin and card access laundry facilities are available. All halls and students can go online to monitor the status of their laundry as well as the availability of machines. Several halls are accessible for students with disabilities. East and West Campus Apartments rent by the individual room, are fully furnished, and have modern appliances including stove, refrigerator, microwave, dishwasher, garbage disposal, and clothes washer and dryer. *Nicholson* and *Edward Gay Apartments* rent by the whole apartment and are unfurnished except for stoves and refrigerators.

All the residence halls, ECA, WCA, and *Edward Gay Apartments* have wired Ethernet data connections and basic cable TV connections included in the rent. Additionally, wireless Internet connectivity is now provided in student rooms and common areas (lobbies, courtyards, study areas, kitchens, etc.) in all residence halls. There are computer labs with printers in 12 of the residence halls and WCA. Local phone service is no longer automatically provided in the residence halls, ECA, and WCA. Students can order local phone service online on their PAWS accounts and a monthly fee will be added to their student accounts. Local phone service is not provided in the *Nicholson Apartments* but is in the *Edward Gay Apartments*.

Students in residence halls may choose to have roommates or, if space is available, a private room. Living arrangements have been established with individual preferences for social and educational development in mind.

Residential Colleges

Residential Colleges are structured to create a stimulating living-learning environment through student interaction with faculty and other freshmen beyond the boundaries of the more traditional classroom setting. Students participating in the Residential Colleges reside in the same facility and must enroll in special sections of general academic courses taken with other Residential College students. This environment creates a close-knit academic community similar to the small college experience. With greater academic emphasis and faculty involvement, the Residential College atmosphere encourages studying, provides access to exceptional academic and social support, and makes it easy to establish new friendships. For more information regarding course requirements, visit the Residential Life Web site at www.lsu.edu/housing.

Agriculture Residential College

Incoming freshmen and sophomores in good standing admitted to the LSU College of Agriculture will have the opportunity to live in the *Agriculture Residential College*. This residential college will support students as they advance through LSU's agriculture program. Faculty involvement and research opportunities will strengthen each student's connection with the Agriculture College, the land-grant mission dating back to 1862, and the interdisciplinary educational experience that reflects the latest in science and technology. The Agriculture Residential College is housed in the newly renovated and expanded Blake Hall, overlooking Campus Lake.

Basic Sciences Residential College

Incoming freshmen who have declared a major in any basic science field (including biochemistry, biological sciences, microbiology, chemistry, computer science, geology, physics, and mathematics), have participated in an LSU summer workshop such as BIOS or Geology Field Camp, and have been placed into MATH 1022 or higher are eligible to live in the *Basic Sciences Residential College*. This living and learning approach to the first year experience will help empower the next generation of science professionals for success.

Business Residential College - Students in the *Business Residential College* have unique educational and professional development opportunities to acclimate to a business culture. This residential college is open to students admitted to LSU's E. J. Ourso College of Business. The Business Residential College is housed in West Hall, a state-of-the-art residence hall which opened in Spring 2008.

Engineering Residential College

Incoming freshmen who have declared a major in engineering and are placed into MATH 1022 or higher will have the opportunity to live in the *Engineering Residential College*. This residential college supports students as they advance through LSU's quality engineering program. Faculty involvement and research opportunities will strengthen each student's connection with the College of Engineering. The Engineering Residential College is housed in South Hall, A

new state-of-the-art residence hall which opened in Spring 2008.

Mass Communication Residential College (open fall 2010) - The *Mass Communication Residential College* is specifically designed to offer an educational and social community for the next generation of journalism, public relations, advertising, and political communication professionals. The program will be open to first- and second-year students and any undergraduate international exchange students who are enrolled in the Manship School of Mass Communication. It will be housed in Jackson Hall.

Global Studies Residential College - The *Global Studies Residential College* is open to students in all majors and provides academic courses and practical experience that supplements the typical LSU curricula. The Global Studies program offers students contact with persons in various fields at LSU, in the community, and beyond who are engaged in global activities and/or language immersion groups, and is housed in LeJeune Hall.

Herget Residential College - Students participating in *Herget Residential College* take several core freshman courses together creating a "mini-campus" atmosphere in the halls. This program for non-honors students is designed to integrate learning with community living and provide students with greater opportunities to interact with faculty and specially selected upperclass students, and is housed in Herget Hall.

Information Technology Residential College - The *Information Technology Residential College* is a technology-based program for entering non-honors freshmen of all majors and interests, and is housed in Broussard Hall. Technology-savvy students will enjoy taking some college courses in Broussard Hall's smart classrooms with faculty members who utilize interactive, multimedia teaching methods and the wireless environment.

Freshman Interest Groups - Freshman Interest Groups (FIGs) are small groups of 20-50 students living together and engaging in linked courses, a community service project, faculty involvement, and several other activities in the designated themes. FIGs provide first-year students a way to make LSU feel smaller in a unique residential environment. The Adventure Leadership FIG is for students interested in leadership development and outdoor experiences or LSU's leadership minor, and it will be housed in Beauregard Hall. The Career Exploration FIG is for students who have not decided on a major or career plan and who are seeking additional support in making these important decisions. It will be housed in McVoy Hall. The Health Science FIG is for students interested in nursing and other Allied Health careers, and it will be housed in Annie Boyd Hall. The Women in Wellness FIG is for women interested in health and wellness, and it will be housed in Miller Hall. For more information regarding current FIGs, visit the Residential Life Web site at www.lsu.edu/housing.

Honors College Housing is for Honors College students in all majors and classifications and is housed in East Laville and Acadian Halls. High-achieving, creative,

and motivated students help create a dynamic living and learning environment. West Laville Hall is presently being renovated and is scheduled to reopen for fall 2010. Upon completion, the Honors House will move from East Laville to West Laville Hall while East Laville undergoes a renovation.

Housing Applications for Residence Halls, East and West Campus Apartments

The Department of Residential Life accepts applications beginning June 1 of the year prior to your fall semester enrollment. For example, for fall enrollment, we begin accepting applications June 1. Students may not apply for housing prior to being admitted to the University. An application for admission must be approved by the Office of Undergraduate Admissions before an application for housing can be submitted. If you are a new student, to increase your chances of assignment to the residence hall of your choice, we recommend that you apply for housing at least 11 months in advance. Housing is limited and full capacity is reached as early as May. For example, for fall 2009 applications, full capacity was reached and waitlist applications were started on May 6, 2009. The East and West Campus Apartments are available to full-time, upper-class students only.

Applying to the Department of Residential Life is a three-step online process:

1. Apply for admission (or be a current student).
2. Upon admission, fill out the online housing application at www.lsu.edu/housing.
3. Use a credit card to pay the \$100 refundable deposit, \$50 non-refundable application fee, and \$5 non-refundable credit card processing fee (\$155 total).

To get your housing assignment online, you must:

1. Go to www.lsu.edu and click the PAWS icon at the top of the page.
2. Click "Log in to PAWS" at the top of the page and enter the username and password that you received at the PAWS orientation session.
3. Click "Student Services" on the left-side menu, and then select "Student Housing." This will take you to the Residential Life Web site.
4. Click "View Application Status" to see your assignment for the fall semester.

Cancellation of an application/assignment must be submitted in writing to the Department of Residential Life. If the cancellation is received by **June 1** for the fall semester, **December 1** for the spring semester, or **May 1** for the summer term, a processing fee will be deducted from the deposit, and the remainder will be refunded. If the cancellation is received after June 1 for fall, December 1 for spring, or May 1 for summer, or if the assignment is not claimed during registration, the entire deposit will be forfeited unless all requirements for evaluation of an application for admission have been met and admission has been denied.

The University reserves all rights in connection with assignment of rooms, inspection of rooms, termination, and occupancy of rooms. Reservations are not transferable. If the room is not occupied by the day before the first class day, the reservation

is forfeited unless notification stating the time of late arrival has been received. Other terms of residence hall occupancy are provided in the housing contract. Room reservations in fraternity or sorority houses are limited to eligible members of those organizations and are made directly with the organization.

Residence Hall and East and West Campus Apartment Rates

LSU provides housing for approximately 5,000 students in air-conditioned residence halls and apartments. Rates are published on a semester basis. For a list of current rates, see the Residential Life Web site at www.lsu.edu/housing. A student living in a room that is not filled to normal capacity will be expected to pay an additional rental charge or to move to another room with a roommate at the same rental charge in the same residence hall. If rooms are available for single occupancy, the charge for single occupancy of a two-student room is 1.5 times the semester rate for full occupancy. Semester rental rates are subject to change at the beginning of a regular semester or summer term.

Residence hall rent is due by the deadline established on the advanced fee bill. Additional information concerning residence hall accommodations may be obtained from the Department of Residential Life, 99 Grace King Hall, 225-578-8663 or on the Web site at www.lsu.edu/housing.

Nicholson and Edward Gay Apartments

The University has 578 one-, two- and three-bedroom apartments that are available for families and for single, upperclass, full-time graduate students aged 21 or older, post-doctoral students, and research associates.

Additional information is available from the Department of Residential Life, 225-334-5198 or www.lsu.edu/housing.

Refund of Residence Hall Rent

Students contract for space in a residence hall or East and West Campus Apartments on an academic-year basis. The contract is effective on the date it is counter-signed by the student. Refund of room rent will be made according to the guidelines below. For further details, contact the Department of Residential Life, 99 Grace King Hall, 225-578-8663.

- A student who moves from one room to another in a residence hall or from one residence hall to another will be refunded or charged the difference, if any, between the unused prorated portions of rent for the two spaces.
- A student who moves out of a residence hall and resigns from the University will be responsible for 25 percent of the rent for the remainder of the contract for the space the student was occupying.
- A student who moves out of a residence hall without resigning from the University will be responsible for 75 percent of the rent for the remainder of the contract for the least expensive space.
- A student who moves out of a residence hall into a fraternity or sorority house

before the close of business on the last day of the regular fall registration period will be refunded all of the unused portion of rent for the space he or she was occupying. If such a move is made after the last day of regular registration (the last day of fall registration, if on an "Academic-Year Rental Terms" agreement), the student will receive a refund as noted in the paragraph above.

- A student who is required to move out of a residence hall as a result of disciplinary action will be responsible for 75 percent of the rent for the remainder of the contract for the least expensive space.

STUDENT HEALTH CENTER

OFFICE • Student Health Center Building
TELEPHONE • 225-578-6271
FAX • 225-578-5655
WEB SITE • www.lsu.edu/shc

The *Student Health Center* provides quality health care to LSU students. The center is fully accredited by the Accreditation Association for Ambulatory Health Care (AAAHC). The center provides a variety of out-patient services including medical care, mental health services and health education. All visits and inquiries are confidential. The student health fee, paid by full-time students during registration, entitles students to many of the services of the Student Health Center at no additional charge. There are additional charges for lab, diagnostic imaging, medication, and medical procedures.

The *Student Health Center Medical Clinic* has five primary care clinicians, a nurse practitioner, two gynecologists, and a number of nurses. In addition, part-time specialty services are offered in orthopedics, dermatology, ear/nose/throat, and ophthalmology. A dental screening clinic is available, but no dental procedures are performed on the premises.

Mental Health Service provides crisis intervention and individual and group therapy. These services are rendered by mental health providers experienced in treating emotional problems and stresses experienced by University students.

The Student Health Center also has an extensive Wellness Education Department. Services include a resource room and an interactive Web page (www.lsu.edu/wellness). Individual appointments are available for consultations on nutrition and weight management; stress and time management; sexual and reproductive health; alcohol and other drug abuse; smoking cessation; sexual assault and violence; and many other areas of concern to University students. Educational programs for student organizations and residence halls, as well as guest lectures for undergraduate and graduate classes, are available upon request throughout the entire year. A departmental-sponsored peer education organization offers service learning and leadership development experiences.

STUDENT MEDIA

OFFICE • 39 Hodges Hall
TELEPHONE • 225-578-1697
FAX • 225-578-1698
WEB SITE • www.lsu.edu/studentmedia

The *Office of Student Media* oversees the operation of KLSU-FM, the *Gumbo* yearbook, the *Legacy* magazine, *The Daily Reveille*, and TIGER-TV, and an advertising and marketing division. These provide information and entertainment to students, faculty, and staff while providing training for students interested in all areas of publishing and broadcasting. All the units in Student Media are nationally recognized within their fields.

The Daily Reveille, the University's student-edited newspaper, is published Monday through Friday during the fall and spring semesters and on Tuesdays and Thursdays during the summer term. The student written and produced yearbook, the *Gumbo*, is distributed during the fall semester. Students also edit and publish the LSU student magazine, *Legacy*, which is distributed on campus four times each year. *KLSU-FM* is a 5,000-watt educational FM station operated by students 24 hours a day, seven days a week. Tiger TV produces a variety of television programming for the LSU Campus Cable System.

UNIVERSITY AUXILIARY SERVICES

OFFICE • 240 Copy & Mail Center
TELEPHONE • 225-578-5208
FAX • 225-578-5814
WEB SITE • www.lsu.edu/uas
E-MAIL • uas@lsu.edu

University Auxiliary Services manages student service-related contracts including LSU Bookstore; LSU Dining; LSU Vending; LSU Laundry; LSU Tiger Card Office and TigerCASH program; ATMs; and LSU partnerships with Cox, Verizon, AT&T, and Campus Federal Credit Union. Please refer to our Web site, www.lsu.edu/uas, for more information.

UNIVERSITY RECREATION

OFFICE • 102 Student Recreation Complex
TELEPHONE • 225-578-8601
FAX • 225-578-8489
WEB SITE • www.lsu.edu/urec
E-MAIL • urec@lsu.edu

The *Department of University Recreation* provides a variety of recreational activities to meet the diverse needs and interests of the University community. A multifaceted recreational program is offered that includes aquatics, informal recreation, healthy lifestyle programs, intramural sports, adventure recreation, sport clubs, and special event activities.

University Recreation includes the following facilities:

- The *Student Recreation Complex* [SRC] is a 121,000 square foot facility located at the corner of South Campus Drive and Minnie Fisk Drive, that houses courts for racquetball, basketball, volleyball, and badminton, an indoor track, a climbing gym, equipment/bike rental, an inclusive

weight/cardio/fitness room, and an indoor pool.

- The *SRC Outdoor Field Complex*, which is located adjacent to the SRC, consists of tennis courts, multipurpose fields, and sand volleyball courts.
- The *Sport and Adventure Complex [SAC]*, which is located on the corner of Gourrier Lane and River Road, features three multipurpose sport fields and a challenge course.

University Recreation features programming and services in the following areas:

- The *healthy lifestyle program* includes group exercise classes, personal and swim training, and specialty courses. Group classes provide cardiovascular, resistance training, and flexibility activities in a fun and motivating group setting. Many class formats are offered throughout each semester and range from beginning to advanced levels. All classes are led by certified group exercise instructors. The personal training program provides nationally certified personal trainers who will help individuals reshape their physique, increase strength, or lose weight with a customized program. Sessions are available for individual or pairs personal training and include fitness testing and evaluation. Specialty courses provide opportunities for individuals interested in learning new skills and participating in activities that will provide a lifetime of enjoyment. Taught by qualified instructors, classes are non credit and include activities such as capoeira, intermediate ballet, yoga, and American Red Cross classes.
- The *intramural sports program* offers team sports and individual events for men's, women's, co-rec, faculty/staff, and open divisions throughout the year. Some of these activities are flag football, basketball, softball, volleyball, racquetball, tennis, and dodgeball.
- The *adventure recreation program* provides an opportunity for the University community to develop an understanding and appreciation for the outdoors. The program features a 24-foot portable climbing wall and an indoor climbing gym. Climbers of all levels will have the opportunity to hone their skills, as well as learn the basics of rock climbing. The program also features a challenge course, which provides facilitation of team building and leadership activities. Comprised of a low and high course, participants utilize their physical and emotional strengths to reach individual and group goals. Outdoor equipment rentals are also offered, including bikes, canoes, kayaks, tents, sleeping bags, and more.
- Each year, UREC hosts a variety of *special events* which are designed to serve particular recreational interests and needs. Programs vary in structure and include organized events such as the 3K Ghost Chase Run and Adventure Race.
- The *sport clubs program* provides opportunities for exercise, recreational and social fellowship, on- and off-campus competition, and learning

new skills while improving existing ones. Some of the active clubs include rugby, soccer, equestrian, ultimate frisbee, lacrosse, tae kwon do, karate and powerlifting. For additional information, contact the Department of University Recreation at 578-4601 or urec@lsu.edu.

OTHER CAMPUS SUPPORT FUNCTIONS

Athletic Department

OFFICE • Athletic Administration Building
TELEPHONE • 225-578-8001
FAX • 225-578-2430
WEB SITE • www.lsuports.net

Athletic facilities include *Tiger Stadium*, with a seating capacity of 92,400; four lighted football practice fields; an indoor football practice facility; a lighted metric track; *Bernie Moore Stadium*, with a Rekortan surface and seating accommodations for 5,680; *Alex Box Stadium*, with seating for 9,200; and six lighted tennis courts with an elevated grandstand.

The *LSU Natatorium* provides an eight-lane Olympic-size indoor pool and diving well. The *Maravich Assembly Center*, a multipurpose facility, seats 13,472 and is the home court for the men's and women's basketball teams, women's gymnastics, and women's volleyball. The *Carl Maddox Field House* provides a 220-meter track facility; a gymnastics practice room; three regulation handball courts; and a large, unobstructed, air-conditioned playing area for basketball, volleyball, indoor tennis, badminton, and other activities. It is available as a competitive indoor track facility and serves as a practice area for track and tennis teams. It is also used for teaching, organized recreational activity, and leisure-time activity for the University community.

Tiger Park, home to the LSU softball team, seats over 1,100 fans, and the LSU Soccer Complex accommodates more than 1,500 fans.

LSU has hosted the NCAA Track and Field Championships four times, most recently in May 2002. The NCAA baseball regional tournament has been played 16 times at Alex Box Stadium. In addition, the basketball NCAA Midwest Regionals, first/second rounds, and SEC tournaments have been played in the Maravich Assembly Center.

Faculty Club

LOCATION • Highland Road
TELEPHONE • 225-578-2356
FAX • 225-578-2244
WEB SITE • www.lsu.edu/facultyclub

The *Faculty Club* is the hospitality center for the campus. The *Faculty Club* may be used by the University community and is open to the general public for certain events. All full-time LSU faculty, administrative and research staff members, and PhD candidates who are teaching assistants are eligible to join *Faculty Club, Inc.*, a private organization. Members have opportunities to meet and work with a cross-section of the campus community

through participation in a variety of activities such as pre-football game buffets, family activities, dances, open houses, and other functions.

Annual membership dues allow the Faculty Club, Inc., Board of Governors to offer these events at a moderate cost.

The dining room is open for lunch from 11:30 a.m. to 1:30 p.m., Monday through Friday, serving a full à la carte menu. Conference rooms are available for meetings and luncheons during regular club hours. The club is also open for special events by reservation. Guest rooms are available for overnight accommodations for parents of students, visitors to University departments, and the public.

The Faculty Club accepts cash, Points, TigerCASH, American Express, VISA, and MasterCard.

U. S. Post Office

OFFICE • 111 LSU Union
TELEPHONE • 800-ASK-USPS (800-275-8777)

University Station, Baton Rouge, Louisiana 70803-9998 is a federal government post office located in the LSU Union Building. Mail service is provided to students and faculty members who are post office box holders or who receive mail through University departments. The office is open from 9 a.m. to 4:30 p.m., Monday through Friday, and closed on weekends and federal holidays. The window hours are adjusted during the holiday season and between semesters. The lobby, however, remains open when the office is closed so that mail may be picked up from post office boxes.

A post office box may be rented for the year or for six months. Post office boxes may be shared only with spouses, brothers, and/or sisters having the same last name. Rental fee information may be obtained by writing to: Manager, University Station, Baton Rouge, Louisiana 70803. General delivery service is not available. Please note that the 70893 zip code is for post office boxes 16000-19999 and 70894 is for post office boxes 20000-55000. All other department mail should carry the 70803 zip code.

All mail, including "Special Delivery," "Express Mail," and parcels must be addressed to the student's box number since the University does not provide mail service to residence halls. Delivery service to the University-owned apartment complexes on Nicholson Drive and West Roosevelt Street is provided by the Main Post Office, 750 Florida Blvd., Baton Rouge, Louisiana 70802.

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Undergraduate Admissions & Student Aid

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Executive Director

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FAX 225-578-4433 Admissions
225-578-3103 Student Aid
FAX 225-578-6300 Student Aid
E-MAIL • admissions@lsu.edu
WEB SITE • www.lsu.edu

LSU welcomes applications from all interested students without regard to race, creed, color, religion, sex, national origin, age, mental or physical disability, marital status, sexual orientation, or veteran's status. The University is committed to making fair and timely decisions on applications submitted.

The Outreach Division of the Office of Undergraduate Admissions & Student Aid actively encourages the referral of prospective freshman and transfer students from Alumni, LSU faculty and staff, high school counselors, and community contacts. The office makes available special contact forms for these referrals that provide record of personal contact with prospects.

Applications will be considered by evaluating prospective students' likelihood of success at LSU.

The University operates on a two-semester plan with an additional multi-session summer term. Qualified applicants—except in the School of Social Work, the MBA program, and the School of Veterinary Medicine—may initiate their studies at the beginning of any semester or term.

For detailed information concerning admission to graduate and professional schools, see the section "Graduate School • Professional Programs" in this catalog.

APPLYING FOR ADMISSION

Application information is routinely sent to students who have their scores on the SAT or ACT test sent to the University. LSU's code is 6373 for the SAT and 1590 for the ACT. The application for admission is found at www.lsu.edu.

All applicants are encouraged to apply well before the deadline dates and send transcripts of all college work attempted, if any, as soon as possible. High school students should ask their schools to send transcripts of all work to date at the time application is made. Complete transcripts will be required after high school graduation. Louisiana high schools submit electronic transcripts to the State Department of Education, which LSU can access upon receiving a student's application for admission. Students can check with their guidance counselor to verify their school's participation in this program.

A nonrefundable *application fee* of \$40 must accompany the application for admission or re-entry. This fee can be submitted using the online payment options or via check or U.S. money order drawn on a U.S. bank and showing the name of the applicant for whom payment is made. The University is not responsible for cash sent by mail. This service fee is used to help cover the cost of processing applications. It is neither refunded if admission is denied, nor is it applied against other costs when a student subsequently enrolls. All former LSU students who have not been enrolled for one or more semesters must submit an application for re-entry.

The application for admission also serves as the application for all freshman scholarship programs and for the Honors College. The **priority deadline** for full consideration for LSU scholarships and for admission to the Honors College is **November 15**. All required information (including an official high school transcript, standardized test scores, and essay when applicable) must be submitted by that date to ensure full consideration. Scholarship offers are made from December through March. For additional information on the Honors College application process, contact the college at 225-LSU-8831 or at honors@lsu.edu.

Arrangements for admission, financial aid, and housing are made separately through the Office of Undergraduate Admissions & Student Aid, and the Office of Residential Life, respectively. Students applying for on-campus housing must first be accepted to LSU. Once students have been accepted, they may apply online for on-campus housing at www.lsu.edu/housing. *Filing an application for admission does not entitle an applicant to University housing or financial aid; nor is the filing of a housing application, the assignment to a room, or the award of financial aid a commitment of admission to the University.* For further information, see the sections "Student Life & Academic Services" and "Financial Aid & Scholarships" in this catalog.

Application deadlines:

- **April 15** for fall semester.
- **December 1** for the spring semester (October 1 for persons requiring an I-20).
- **April 15** for the summer term.
- **July 1** for all applicants (final date to submit all credentials)

Applications submitted after the published deadline are considered on an appeal basis only and must be accompanied by a \$55 nonrefundable fee (\$40 application fee and \$15 late fee). Approval of these appeals is not guaranteed.

Economically disadvantaged students who do not have the resources to pay the admission application fee to LSU may request an application fee waiver. For the purposes of this scholarship fund, economically disadvantaged will be defined as either meets the income requirements of Pelican Promise (which equates to a family income that is 150% of the poverty level), receives free lunch at his/her high school, or received the ACT/SAT fee waiver.

This fund will be awarded on a case by case basis. Please contact the Office of Admissions & Student Aid, www.admissions@lsu.edu for instructions on how to apply for this waiver.

IMMUNIZATION POLICY

All students enrolling for the first time at LSU or after an absence of one semester or more must furnish proof of immunization for (or immunity to) measles, meningitis, mumps, rubella, tetanus, diphtheria, and tuberculosis screening *prior to enrollment at the University*. The required proof should be submitted to LSU Student Health Center, Baton Rouge, Louisiana 70803.

CERTIFICATION OF SELECTIVE SERVICE COMPLIANCE

All persons who are required to register for the federal draft under the federal Military Selective Service Act shall be required to certify on their application for admission that they have registered with the Selective Service. Questions regarding compliance should be directed to the Admissions Division of the Office of Undergraduate Admissions & Student Aid, Pleasant Hall, Baton Rouge, Louisiana 70803.

RESIDENCY

Eligibility for classification as a Louisiana resident is determined by the Office of Undergraduate Admissions & Student Aid in accordance with LSU System regulations and is based on evidence provided on the application for admission and related documents. Regulations relate primarily to location of the home and place of employment. A resident student is defined as one who has abandoned all prior domiciles and has been domiciled in the state of Louisiana continuously for at least one full year (365 days) immediately preceding the first day of classes of the term for which classification as a resident is sought.

An individual's physical presence within

this state for one year must be associated with substantial evidence that such presence was with the intent to maintain a Louisiana domicile. Physical presence within the state solely for educational purposes without substantial evidence of the intent to remain in Louisiana will not be sufficient for classification as a resident, regardless of the length of time within the state.

Factors considered in establishing residency, although not necessarily conclusive, include financial independence from parents residing in another state or country, reliance on Louisiana resources for financial support, continuous presence in Louisiana during periods when not enrolled as a student, commitments indicating an intent to stay in Louisiana permanently, paying Louisiana income taxes as a resident during the past tax year, and the absence of these indicia in other states during any period for which domicile in Louisiana is asserted.

Special provisions have been made for adults moving to Louisiana for employment purposes, military personnel stationed in Louisiana, and international students with immigrant visas. An international student on a student visa is classified as a nonresident.

Resident classification and all fees are audited and adjusted, if necessary, after each registration. Appropriate credits or charges are then made to the student's account. For additional information concerning the establishment of residency, contact the Admissions Division of the Office of Undergraduate Admissions & Student Aid. Continuing students must contact the Office of the University Registrar for establishment of residency.

EDUCATIONAL REQUIREMENTS AND ADMISSION POLICY

ADMISSION STANDARDS

Anyone who wishes to be considered for undergraduate admission to LSU is encouraged to apply.

LSU will consider for admission the total high school record: rigor of courses completed, grades, test scores, educational objectives, school leadership, and breadth of experiences in and out of the classroom. Admission is based on a review of the high school record and official standardized test scores. The minimum requirements for assured admission are 3.0 Academic gpa* on 18 units of college-preparatory high school courses** as outlined in the LSU Core and a 1030 SAT (Critical Reading and Math)/22 Composite ACT †.

Students must be eligible to enroll in university-level English and mathematics courses, as evidenced by a minimum SAT Critical Reading Score of 450 (ACT English subscore of 18) and a minimum SAT Math score of 460 (ACT Math subscore of 19). Preference for admission to LSU will be given to those students whose credentials indicate the greatest promise of academic success and the greatest potential for contributing to the diverse missions of the University.

Applications will be reviewed against the following basic criteria:

Units*	GPA*	SAT or ACT †	Class Rank
18	3.00	1030 or 22	-
18	3.00	-	Top 15%
17	3.00	-	Top 10%
17	3.00	1090 or 24	-
17	3.20	1060 or 23	-
17	3.50	1030 or 22	-

*The gpa is calculated solely on the academic high school units for admission to LSU.

**High school units required for admission are listed in table below. Applicants with less than 18 units are expected to meet unit requirements in categories 1-5, at least.

†An applicant's standardized test scores will be verified in cases where there is an increase of six or more points on the ACT or an increase of 220 or more points on the SAT.

Students who do not meet the admissions standards outlined above should submit supporting documentation and a letter outlining their qualifications for admission with their initial application. The Admissions Committee will review qualifications and application packages to determine whether additional predictors of success exist as a basis for admission. Other factors, such as choice of degree program, rank in class, scores on required tests (SAT or ACT), credit in advanced placement and honors courses, pattern and quality of courses, grade trends, educational objectives, extracurricular activities, and school recommendations will be considered in the admission process. In addition, special talents, significant life and career experience, or membership in groups under-represented in the student body will be evaluated and weighed before decisions to offer admission are made.

TABLE OF HIGH SCHOOL UNITS REQUIRED FOR ADMISSION TO LSU

No. of Units	High School Course(s)
4	English Composition & Literature English I, II, III, and IV
3	Mathematics (Four units are strongly recommended.) One unit of Algebra I One unit of Algebra II One additional unit consisting of courses such as geometry, trigonometry, Advanced Mathematics I or II, precalculus, calculus, Algebra III, probability and statistics, discrete mathematics, Applied Mathematics III, or integrated Math III
3	Natural Sciences One unit of biology One unit of chemistry One unit of physics
3	Social Studies One unit in American history One unit in world history, world geography, or history of western civilization One unit consisting of civics, free enterprise, economics, or American government
2	Foreign Language Two units in a single language
1	Math/Science Elective Additional unit of math or natural science, such as Geometry, Calculus, Pre-Calculus, Algebra III, Probability & Statistics, Discrete Math, Applied Math III, Advanced Math I or II, Integrated Math III, or Earth Science, Environmental Science, Physical Science, Biology II, Chemistry II, Physics II, or Physics for Technology. LSU will accept, as one unit of the requirement, two units of agriscience for one unit of natural science.
0.5	Computer Studies One half unit in Computer Studies or substitute one half unit from any of the above.
1.5	Additional Courses One-and-one-half units from the categories above and/or certain courses in the visual and performing arts. These units may be from advanced course work in the arts, e.g., fine arts survey, Art III, Art IV, advanced band, applied music, advanced chorus, Dance III, jazz ensemble, Music Theory II, advanced orchestra, wind ensemble, or Studio Piano III. LSU will accept, as one unit of this requirement, two units of basic performance courses in music, dance, theater, or studio art.

Note:	For automatic admission to LSU, an applicant's high school academic grade point average (gpa) is calculated solely on the basis of the academic units shown in Table I, using the standard 4.00 maximum scale ("A"=4; "B"=3; "C"=2; "D"=1; "F"=0). The weighted scholastic gpa is considered in the holistic review.
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Direct Admission into Senior College

Three of the senior colleges at LSU currently have provisions for applicant screening and admission before beginning study at LSU: Agriculture; Business; and Music & Dramatic Arts. Refer to chapters dedicated to the individual college for detailed information on the process for admission to the college or degree program.

Student-Athletes

An applicant who is awarded an athletic grant-in-aid may be admitted if he/she meets the standards found in Bylaw 14.3.1 of the National Collegiate Athletic Association (NCAA). A student-athlete at LSU will be subject to a number of special academic requirements, which are specified in the rules of the Southeastern Conference (SEC) and the NCAA.

Home Schooled, GED, Unaccredited or Unapproved High Schools

Individuals applying for admission to LSU after completing home-schooling, receiving GEDs, or graduating from unaccredited or unapproved high schools will be evaluated on the basis of qualifications outlined above.

Early, Dual Enrollment, and Louisiana Early Start Admission Requirements

The *Early Admission Program* permits high school students who have not completed all requirements for a high school diploma to apply for admission to LSU as regular students, provided they fulfill these minimum requirements: 15 units of high school credit, including three units of English; an overall academic average of 3.00 ("B"); and a composite score of 28 ACT/1250 SAT. A limited number of students are selected from those who meet these requirements. Among the considerations in selection are maturity, rank in class, grades, recommendation of the high school principal and others, and additional evidence of scholarly achievement.

The University has a *Dual Enrollment Program* especially designed for high school students who demonstrate the maturity and scholastic ability to be successful in college work. Participation in this program permits exceptional high school seniors to enroll in one or more courses at LSU when space, faculty, and other facilities are available. Students must have a gpa of 3.00 ("B"), a composite score of 27 ACT/1210 SAT, and be recommended by the high school principal or counselor for enrollment in a specific course or courses.

Students applying for dual enrollment study must have completed the most advanced courses offered by their school in the academic areas in which they wish to enroll, or must be considered qualified for the college course by

the principal or counselor. Continued dual enrollment requires renewed approval each semester.

Dual enrollment students are eligible for honors activities and are encouraged to visit the Honors College office. The University College Center for Freshman Year staff are available for advice or information, whether or not the student intends to enroll at LSU as a degree-seeking student.

The *Louisiana Early Start Program* provides tuition assistance to eligible 11th and 12th grade students from public high schools that enroll in eligible college courses (as listed on the current Board of Regents' Master Course Articulation Matrix) for dual credit at an eligible public or private college or university. Students must be in good standing as defined by the high school and meet LSU admission criteria for dual enrollment.

Campus Tours

Campus tours are offered at 10 a.m., Monday-Friday, excluding University holidays, in the Memorial Tower. Four sessions begin with an overview of the campus, descriptions of programs of study, admission requirements, and information about student aid and scholarships. Special Saturday tours are conducted in the fall and spring semesters. To make a tour reservation, prospective students, parents, or groups are encouraged to contact the Outreach Division of the Office of Undergraduate Admissions & Student Aid at 225-578-6908.

Freshman Orientation and Registration

Freshman applicants who intend to enroll in the fall must apply by April 15, have SAT or ACT scores on file, and participate in a freshman orientation and registration program. This program includes testing for placement or advanced standing and the opportunity to meet with an advisor to select courses for the coming semester. Program announcements are sent to high schools and to newly admitted students. The deadline for registration in all orientation programs is May 1.

Admission to a Senior College

Refer to chapters dedicated to the individual colleges or schools for details on requirements for admission to a senior college and/or to a degree program.

Transfer Students

Students with previous college or university work from regionally accredited institutions may be considered for admission if they have an overall 2.50 gpa or better on all college work attempted, including a college-level course in English and in mathematics (above remedial). Transfer applicants who have earned fewer than 30 hours of college-level work (above remedial) must also meet the requirements for freshman admission (See "Freshmen" in this chapter.)

LSU computes the gpa on all courses taken, including repeated courses, courses with incomplete grades, and those with any other grades, except "W," "WA," "WB," "WC," "WD," "WF," "unsatisfactory," and "no credit." Each computed grade becomes an "A," "B," "C," "D," or "F." The symbols "+" or "-" are disregarded. Grade point averages will be computed using the lower grade given by institutions that

issue upper/lower grades ("AB," "BC," etc.). Grades of "pass," "credit," and "satisfactory" will be treated alike and will be counted as earned hours, but not in the computation of the gpa. "Fail" will count as hours attempted, but not as hours earned, and will be used to compute the gpa, including any remedial course work. This policy is followed, regardless of the practices of the sending institution, including other LSU System campuses.

All students will be considered for admission based on an evaluation of their likelihood of success at LSU. LSU will consider college gpa, pattern and quality of courses taken, grade trends, educational objectives, special talents, significant life and career experiences, membership in groups under represented in the student body, or special circumstances.

A prospective transfer student should submit an admission application and a complete official transcript from each college or university attended, whether or not credit was earned or is desired. Students enrolled in college at the time applications are submitted should have transcripts sent when they apply for admission, to be followed by supplementary records at the close of the semester.

Provisional admission, pending receipt of supplementary records, may be granted when it is impossible to obtain final records prior to scheduled registration dates. This admission will be canceled if the required records are not received by the Office of Undergraduate Admissions & Student Aid within 30 days of the first day of classes or if it is determined, upon receipt and review of final records, that the applicant is not qualified for admission.

A student athlete who is awarded an athletic grant-in-aid may be admitted if he/she meets the standards found in Bylaw 14.5 of the National Collegiate Athletic Association (NCAA). A student athlete at LSU will be subject to a number of special academic requirements specified in the rules of the Southeastern Conference (SEC) and the NCAA.

Transfer Student Orientation and Registration

Transfer students are required to participate in the Transfer Student Orientation program. This program provides information about student services and resources at LSU and the credit evaluation process. Students meet with an advisor, obtain an ID card and PAWS (Personal Access Web Services) account, and schedule classes. Announcements regarding the program are sent to applicants.

Re-entering Students

Re-entering students who have not enrolled in the University for one or more regular semesters must apply for readmission. Students who have attempted 15 or more semester hours at other accredited colleges or universities since last attending LSU must have a gpa of at least 2.50 on all college work attempted including a college-level course in English and in mathematics above the remedial level.

Students applying to re-enter the University:

- must submit an application and a complete official transcript from each college or university attended since leaving LSU, regardless of whether credit was earned,

- desired, or transferable;
- must meet senior college scholastic requirements for re-entry; or
- may be placed on scholastic probation or warning upon re-entry.

Acceptance of Credit from Other Collegiate Institutions

The Admissions Division of the Office of Undergraduate Admissions & Student Aid evaluates credit from other institutions after the student's complete application and all official transcripts from each college and university attended have been received. Credit earned in colleges and universities accredited by regional accrediting associations is generally accepted; however, courses taken at the lower (1000-2000) level cannot be given upper (3000-4000) level credit. *Credit allowed by the Office of Undergraduate Admissions & Student Aid for transfer is, in all cases, subject to review by the student's senior college with regard to its applicability toward a particular degree.*

For schools not regionally accredited, the University is guided in its decision regarding acceptance of credit by recommendations of selected institutions in the states in which the schools are located. Applicants who are admitted are given an opportunity, usually through advanced-standing examinations, to validate some or all of the credit. Each student's record from a nonaccredited college will be considered on the basis of individual merit.

Students who are placed on probation or made ineligible to continue at the institution where they were previously enrolled, based on grades earned in course work recorded on transcripts received after registration, will have the appropriate academic action applied immediately.

Questions relating to the evaluation of credit should be referred to the Admissions Division of the Office of Undergraduate Admissions & Student Aid. Questions relating to the acceptance of credit toward a degree program and the length of time required for completion of degree requirements should be referred to the appropriate senior college or school. For additional information, see the chapter titled, "Undergraduate Degree Requirements and Regulations."

INTERNATIONAL APPLICANTS

International admission requirements are applied to all students who have international secondary or post-secondary educational credentials, regardless of country of citizenship, immigrant status, or visa status. All students who have *only* U.S. secondary and post-secondary educational credentials must meet U.S. admission requirements as detailed in previous sections. Applications from students with both U.S. and international educational credentials may be reviewed according to either or both U.S. and international requirements.

Any transcript or documentation issued in a language other than English must be sent with an official English translation. The Admissions Division of the Office of Undergraduate Admissions & Student Aid is solely responsible for evaluating and determining the equivalencies of international credentials and grading scales.

English Proficiency Requirement

An applicant whose native language is not English and/or who has been educated outside of the U.S. in a country or province where English is not the only official language must demonstrate proof of English proficiency by submitting either a TOEFL or an IELTS score.

On the TOEFL (Test of English as a Foreign Language), the following minimum scores are required for automatic admission:

- 550 (paper-based exam)
- 213 (computer-based exam)
- 79 (internet-based exam)

Information regarding TOEFL may be obtained by visiting the official Web site at www.toefl.org.

On the IELTS (International English Language Testing Service), the following minimum score is required for automatic admission:

- 6.5

Information about IELTS may be found at www.ielts.org.

Official TOEFL/IELTS scores are those reported directly to LSU by the respective testing service at the request of the student.

Applicants may be exempt from the TOEFL/IELTS requirement if they have completed one of the following:

- a U.S. high school diploma earned, having attended all four years of high school in the U.S.;
- a bachelor's degree earned from an accredited U.S. institution;
- a score of 480 on the English/Critical Reading section of the SAT; or 20 on the English Section of the ACT;
- U.S. transfer requirements (minimum 2.50 overall gpa on 30 or more semester hours above remedial level, including a college-level course in English and in mathematics, or two consecutive English courses, from a regionally accredited U.S. college or university)

Official transcripts or scores are required showing completion of one of the above before a student can be exempted from the TOEFL/IELTS requirement. The Office of Undergraduate Admissions & Student Aid reserves the right to require a satisfactory TOEFL/IELTS score from any applicant. All international students who are admitted (except for transfer students who have submitted a satisfactory TOEFL/IELTS score and have received transfer credit from an accredited U.S. institution for the equivalent of LSU's English 1001 and 2000 or 1004 and 1005 with a grade of "C" or better in each) will be required to take an English placement test prior to registration.

First-Time Students

International students who have never attended a post-secondary education institution will apply as freshmen (first-year students), and must have the equivalent of a U.S. high school diploma with an academic average equivalent to "B" (3.0 or better on the U.S. 4-point grading system). The "academic average" is determined by averaging the grades of secondary school academic courses, excluding nonacademic courses such as physical education, vocational/technical courses, religion, art, music, etc.

Students must submit complete official records for the secondary level of education, and are strongly encouraged to submit ACT or

SAT scores. Students who have taken advanced-level exams, international baccalaureate higher level exams, or other types of secondary education beyond the 12th year of schooling should submit the official certificates or transcripts and course syllabi for possible advanced placement university credit.

International Transfer Students

From International Institutions

International students who have attended any post-secondary level college, university, or institution must apply as transfer students. LSU requires the equivalent of a 3.0 ("B" average on the U.S. 4-point grading system) for all transferable credit from accredited international institutions. Applicants with less than the equivalent of 30 semester hours of transferable credit (approximately one year of full-time study) must also qualify for freshman admission.

Students must submit official transcripts from each post-secondary institution attended, listing courses taken and grades earned. Also required are the official course descriptions or syllabi to be evaluated for possible credit toward an LSU degree. Transfer credit is not given for English as a second language, non-English native language courses, or vocational/technical courses. For LSU to award transfer credit, the institution must be accredited/recognized by the Ministry of Education or equivalent government agency in that country, and be suitable for university-level credit.

From U.S. Institutions

International students who have attended a regionally accredited U.S. college or university must meet U.S. transfer requirements: an overall gpa of at least 2.50 and 30 semester hours of transferable credit, including college-level courses in both English and mathematics. Refer to the section on "Transfer Requirements." If less than 30 hours are earned, freshman requirements must also be met.

From Both International & U.S. Institutions

If credit is earned from both international and U.S. post-secondary accredited institutions, a 3.0 gpa is required from international institutions, and a 2.5 gpa is required on all U.S. college work. Refer to the sections above. Students who have less than a 3.0 gpa from international institutions may be admitted if: (1) they meet the requirements for transfer from a U.S. accredited college or university (30 semester hours of credit above remedial, 2.50 gpa, math and English courses), *and* (2) have an overall gpa of 2.50 or higher when the U.S. gpa is combined with the international gpa. In this case, courses passed with the equivalent of "C" or higher will be considered for transfer credit from accredited post-secondary international institutions.

Application Procedure

Application deadlines for international students are **April 15** for summer or fall semesters and **October 1** for the spring semester. However, all required documents should be sent at least 120 days before the semester starts to allow for processing time, especially if an I-20 immigration form is needed for the student visa application. Processing time may be extensive for some applications.

The application form should be completed online at www.lsu.edu. The \$40 application fee can be submitted online by credit card, or mailed to the office by check or money order drawn on a U.S. bank. The following materials must be sent to the Admissions Division of the Office of Undergraduate Admissions & Student Aid, Pleasant Hall, Louisiana State University, Baton Rouge, LA 70803:

- complete, official academic records;
- official TOEFL or IELTS scores; and
- evidence of financial support.

"Official transcript" is defined as an official record prepared by the issuing institution and sealed in the institution's official envelope.

Expenses

International applicants are required to offer proof of the availability of sufficient funds to meet all costs while studying at the University. Total expenses, excluding travel to and from Baton Rouge, for the calendar year (12 months) are estimated to be \$28,000 for undergraduate students who are not residents of Louisiana. International students residing in Louisiana cannot be considered Louisiana residents unless they are permanent residents of the U.S., among other criteria.

All fees and costs are subject to change.

OTHER ENROLLMENT OPPORTUNITIES

Independent Study

Admission to college-level correspondence (independent study) courses at LSU does not constitute admission to a degree program at the University. However, students may enroll for correspondence study prior to being admitted to the University.

Credit earned in correspondence courses may be submitted for evaluation toward an undergraduate degree at LSU or may be transferred to another institution. Students not enrolled at LSU who plan to apply correspondence credit toward an LSU degree should submit an official "Application for Admission" form (available from the Admissions Division of the Office of Undergraduate Admissions & Student Aid). In addition to the application form, students should submit official transcripts of all previous academic work.

Admission to correspondence study will be granted to enrolled LSU undergraduate students upon approval of their college deans, which must be indicated on the independent study application form. Students who have been dropped from the University for scholastic, disciplinary, or attendance reasons may be admitted to correspondence study courses on a noncredit basis only.

A correspondence course grade will be

posted to the transcript when the course is completed. If a student takes the examination by the last day of the final examination period of a semester/summer term, the grade will be posted to that semester/term. The grade will be used to determine academic action at the conclusion of that semester or summer term. If the examination is taken after that date, the correspondence grade will be posted to the next regular semester or summer term. Correspondence grades will not be posted to intersession.

Students who become ineligible while a correspondence course is in progress may complete the course for degree credit. During their period of ineligibility to enroll, students may register on a noncredit basis for correspondence courses.

No more than one-fourth of the number of hours required for the bachelor's degree may be taken through Continuing Education by correspondence study. Specific information regarding acceptance of correspondence study toward fulfillment of degree requirements is provided in college and school sections of this catalog. Before scheduling correspondence courses, LSU students must obtain approval of their academic deans.

Visiting Students

Students enrolled in another accredited college or university who are eligible to continue in that institution in the next regular term and who are not on scholastic warning or probation (who are in academic and institutional good-standing) may be admitted as visiting students for one semester or summer term only. These students must submit official transcripts of all college work previously taken. This statement must include the total number of semester or quarter hours of credit previously earned.

Students admitted on a visiting student basis who wish to be considered for regular admission must complete a new application for admission and must supply official transcripts of all college work previously taken. These students will be evaluated on the admission standards in place for transfer students at the time of their application for regular admission. Some senior colleges have admissions criteria exceeding those for general admission to the University. Prospective students should consult individual senior colleges for information on additional requirements for specific degree programs. Visiting students who gain admission to the University as regularly admitted students are subject to the requirements of the catalog in effect at the time of their admission as regular students.

International students are not eligible for this program except for the summer term and, in addition, are required to submit a TOEFL score that meets admission requirements.

LSU/Baton Rouge Community College Cross-Enrollment Program

LSU and Baton Rouge Community College (BRCC) students may take courses at the other institution through a cross-enrollment program between the two institutions. This program enables students to take courses not available at the institution where they matriculate. Both full-time and part-time students are eligible to participate. Unless

special course fees are assessed, full-time students pay no additional fees. Part-time students pay tuition and fees based on the total number of hours for which they are registered and any special course fees.

Participants are allowed the same library privileges granted to the student body at the home institution. Students participating in the cross-enrollment program have access to the library at the other institution.

Before enrolling, a student must obtain written approval from the dean of his/her college. Courses taken at BRCC that are approved for college work at LSU are recorded as transfer credit. Interested students can obtain information from the Office of the University Registrar at LSU, the Registrar's Office at Baton Rouge Community College, and the offices of academic deans at either institution. Students should consult the *Registration Schedule of Classes* for additional details.

Academic Common Market

Louisiana participates with 13 other southern states in the Academic Common Market, an interstate agreement for sharing uncommon programs. Residents of these states who are accepted for admission into selected out-of-state programs can enroll on an in-state tuition basis.

To enroll as Academic Common Market students, applicants must be accepted for admission into a program to which their state has made arrangements to send its students, and obtain certification of residency from the Common Market Coordinator in their home state. Applications for admission should be made directly to the institution offering the program. Additional information about the Academic Common Market and programs available at in-state tuition rates for residents of Louisiana can be obtained from the Office of the University Registrar.

Academic Bankruptcy

Under specified conditions, undergraduate students who have interrupted their college careers for a period of at least five consecutive calendar years may, at the time of application for admission to the University, declare academic bankruptcy. (See the "Undergraduate Degree Requirements and Regulations" section of this catalog.)

Advanced-Placement Program

All new freshman students entering LSU may take departmental advanced-standing examinations. Appropriate course placement and academic credit earned are determined by the students' scores. These examinations are administered at no additional charge to participants in the Spring Invitational Program, Freshman Orientation, or Special International Student Testing programs, provided the students complete the tests by the final date to add courses for credit during their first term of enrollment at LSU.

Credit earned through placement tests and advanced-standing examinations taken while students are not enrolled in the University (all System campuses) will be awarded in the next semester for which they are enrolled for resident credit, provided they register at LSU within two years.

SAT—Scholastic Assessment Test and ACT (formerly the American College Test) • SAT and/or ACT scores are used in granting advanced-standing credit in freshman English and mathematics placement. LSU does not award credit for SAT subject tests.

AP—The Advanced-Placement Program of the College Board • About one-fourth of American secondary schools currently participate in the Advanced-Placement Program of the College Board. Each May, AP examinations are administered (by the College Board) to students who have participated in the program. Advanced-Placement credit will be granted in appropriate subjects to freshmen who earn a grade of 3, 4, or 5 on Advanced-Placement subject examinations, as specified in the chart provided. Departmental recommendations are subject to change. Contact the Admissions Division of the Office of Undergraduate Admissions & Student Aid for current recommendations.

For information about general program data and policies, contact either Advanced-Placement Program, The College Board, 45 Columbia Ave., New York, NY 10023-6917; or the Office of Undergraduate Admissions & Student Aid, Pleasant Hall, LSU, Baton Rouge, Louisiana 70803.

CLEP—Subject Examinations of the College Level Examination Program • Policies governing minimum required scores and the acceptance of credit are established by the appropriate academic departments. LSU allows credit on CLEP subject examinations in 20 areas. (Credit is not allowed for CLEP general examinations.) Departmental course credit recommendations for satisfactory scores on CLEP subject examinations are included in the table provided. Department recommendations are subject to change. Contact the Admissions Division of the Office of Undergraduate Admissions & Student Aid for current recommendations and information on general program data and policies.

IB—International Baccalaureate • A number of American and secondary schools abroad participate in the International Baccalaureate Diploma Program. This is a comprehensive two-year curriculum leading to examinations and a possible IB diploma if the requirements of the full program are satisfied.

Students are encouraged to submit their IB diploma record or examination results with their application to the University for evaluation. Advanced placement credit *may* be granted in appropriate subjects to freshmen who earn a grade of 4 or better on the IB higher level examinations. Credit is not allowed for IB subsidiary level examinations.

Policies governing minimum required scores and the acceptance of credit of IB examinations are established by the National Council on the Evaluation of Foreign Credentials and by the appropriate academic departments. Current departmental recommendations may be obtained by contacting the Admissions Division of the Office of Undergraduate Admissions & Student Aid.

Other Considerations

Applicants who meet the educational requirements listed in this catalog will be considered for admission. Admission will be denied if requirements listed in this catalog are not met. Admission is not automatically granted when these requirements are met; it may be denied if other factors, in the judgment of University officials, merit denial. Issues such as limited enrollment in certain curricula, timeliness of application, unavailability of certain programs, and other relevant factors may be considered. Furthermore, the University may deny admission, readmission, or continued enrollment to persons whose behavior is disruptive, dangerous, or abusive.

Students may appeal admission decisions to the Faculty Undergraduate Admissions Committee. The purpose of the Admissions Committee review is to evaluate the qualifications of each applicant to determine whether equivalent predictors of success exist and whether to admit the student on this basis.

Students who earn AP Exam scores of 3 or above are generally considered to be qualified to receive college credit and/or placement into advanced courses due to the fact that their AP Exam scores are equivalent to a college course score of “middle C” or above. The awarding of credit and placement is determined by each department. The AP Exams are administered by the College Board.

COLLEGE BOARD ADVANCED-PLACEMENT PROGRAM FOR ENTERING FRESHMEN			
Examination	Minimum Score	Courses	Hours Credit
Art History	3	ARTH 1440 or 1441	3
	4	ARTH 1440, 1441	6
Biology	3	BIOL 1201, 1202	6
	4	BIOL 1201, 1202, 1208 & 1209	8
Chemistry	3	CHEM 1201, 1202	6
	4	CHEM 1421, 1422	6
Computer Science A	3	CSC 1248	3
Computer Science AB	3	CSC 1248	3
	4	CSC 1253 or 1350	3
	5	CSC 1253 or 1350 and	3
		CSC 1254 or 1351	6
Economics: Microeconomics	4	ECON 2000	3
Economics: Macroeconomics	4	ECON 2010	3
English Language & Composition	3	ENGL 1001	3
	4	ENGL 1001 and 2025 or 2027 or 2029 or 2123	6
	5	ENGL 1001, 2025 or 2027 or 2029 or 2123, and 2000	9
English Literature		Same as above	
Environmental Science	3	EMS 1001/ENVS 1000	3
Experimental Statistics	3	EXST 2201	3
French Language	3	FREN 1001, 1002	8
	4	FREN 1001, 1002, 2101	11
	5	FREN 1001, 1002, 2101, 2102	14
German Language	3	GERM 1101, 1102	8
Government, U.S. Politics	4	POLI 2051	3
Government, Politics (Comparative)	4	POLI 2053	3
History, American	3	HIST 2055 or 2057	3
	4	HIST 2055, 2057	6
History, European	3	HIST 1003	3
	4	HIST 2021, 2022	6
History, World	4	HIST 1007	3
Latin	3	LATN 1001, 2051	10
	4	LATN 1001, 2051, 2053	13
Mathematics: Calculus AB	3	MATH 1431 or 1441	3
	4	MATH 1550	5
Mathematics: Calculus BC	3	MATH 1550	5
	4	MATH 1550, 1552	9
Music Theory	4	MUS 1799	3
Physics B	3	PHYS 2001	3
	4	PHYS 2001, 2002	6
Physics C: Mechanics	3	PHYS 1101	3
Physics C: Electricity & Magnetism	3	PHYS 2102	3
Psychology	4	PSYC 2000	3
Spanish	3	SPAN 1101 and 1102	8
	4	SPAN 1101, 1102, and 2101	11
	5	SPAN 1101, 1102, 2101, and 2102	14
Spanish Literature		Same as above	
Statistics	4	ISDS 2000	3

The College-Level Examination Program® (CLEP) gives students the opportunity to receive college credit by earning qualifying scores in the subjects listed below. CLEP Exams are administered by the College Board.

CLEP EXAMINATIONS			
CLEP Subject Examination	Minimum Score	LSU Equivalent	Sem. Hrs.
American Government	58	POLI 2051	3
American History I	50	HIST 2055	3
American History II	50	HIST 2057	3
Calculus with Elementary Functions	56	MATH 1550	5
College Algebra	50	MATH 1021	3
College Composition	58	ENGL 1000/1001	3
College French	35 39 45 50	FREN 1001 FREN 1001, 1002 FREN 1001, 1002, 2101 FREN 1001, 1002, 2101, 2102	4 8 11 14
College German	40 48 54 61	GERM 1101 GERM 1101, 1102 GERM 1101, 1102, 2101 GERM 1101, 1102, 2101, 2102	4 8 11 14
College Spanish	40 48 54 61	SPAN 1101 SPAN 1101 and 1102 SPAN 1101, 1102, 2101 SPAN 1101, 1102, 2101, and 2102	4 8 11 14
Human Growth and Development	52	PSYC 2076	3
Introduction to Educational Psychology	52	PSYC 2060	3
Introductory Psychology	55	PSYC 2000	3
Introductory Sociology	46	SOCL 2001	3
Trigonometry	50	MATH 1022	3

The International Baccalaureate® (IB) Diploma Programme is a challenging two-year curriculum, which leads to the awarding of college credit as listed below:

INTERNATIONAL BACCALAUREATE ADVANCED PLACEMENT CREDIT*		
Subject	Score	Credit
Biology 2003 – syllabus	4 5	BIOL 1201 (3), 1202 (3) BIOL 1201 (3), 1202 (3), 1209 (1)
Chemistry 2003 – syllabus	4 5	CHEM 1201 (3) CHEM 1201 (3), 1202 (3), 1212 (2)
Computer Science	4 5	CSC 1248 (3) CSC 1253 (3) or 1350 (3)
Economics	5	ECON 2030 (3)
English Literature (A1)	4 5	ENGL 2025 (3) ENGL 2025 (3), 2027 (3)
History – Modern Europe	4 5	HIST 2022 (3) HIST 2023 (3)
History – 2003 syllabus	4	HIST 1007 (3)
History – all other	4	HIST 2*** (3)
Language A1: English	4 5	ENGL 2025 (3) ENGL 2025 (3), 2027 (3)
Mathematics	4 5	MATH 1021 (3), 1431 (3) MATH 1021 (3), 1550 (3)
Music – 2002 syllabus	4 5	MUS 1751 (3) MUS 1751 (3), 1799 (3)
Physics – 2003 syllabus	4 5	PHYS 2001 (3) PHYS 2001 (3), 2002 (3)
Psychology	4	PSYC 2000 (3)
Visual Arts – 2003 syllabus	4	ART 1001 (3)
Other HL's	4	3 credit hours by title (1***)

*Advanced Placement credit given for Higher Level (HL) exams only, with grades of 4 or higher.

STUDENT AID

LSU awards scholarships in the form of cash awards, full tuition and nonresident fee exemptions, room and board, and employment opportunities to students who meet certain academic qualifications.

The scholarships listed for entering freshmen are awarded mainly on the basis of standardized test scores (ACT/SAT) and high school record.

In addition to the scholarship programs, the Student Aid Division administers a number of federally funded and state funded financial aid programs. The total amount of funding disbursed annually through these programs is approximately \$150 million.

LSU SCHOLARSHIPS AVAILABLE TO ENTERING FRESHMEN

Most awards listed below are valid for one year of undergraduate study. Each may be renewed annually as long as the recipient meets academic requirements. The maximum term of the award is four years or until the recipient receives an undergraduate degree, whichever occurs first.

Louisiana residents selected for the scholarships listed below will likely qualify for tuition assistance and cash stipends through the state's TOPS program. See the section titled "Louisiana's Tuition Opportunity Program for Students, (TOPS)."

Application Procedure

The LSU "Application for Undergraduate Admissions" is an automatic application for entering freshmen scholarships. The online application must be submitted along with an official high school transcript, standardized test scores, and all other required information to the Office of Undergraduate Admissions & Student Aid, Pleasant Hall, LSU, Baton Rouge, Louisiana 70803-2802. The priority date for full consideration for LSU's scholarship programs is **November 15**.

Notification of scholarship recipients normally begins in December. Students are considered based on a six-semester transcript once they have been admitted to the University. To be guaranteed consideration, standardized test scores must be received by **November 15**.

SCHOLARSHIPS FOR LOUISIANA AND NONRESIDENT STUDENTS

Chancellor's Alumni Scholarships

These scholarships, funded through endowments made to the University by Gordon A. Cain and Fred H. Fenn, are LSU's most prestigious awards.

To be considered, a candidate must have either a Critical Reading and Mathematics SAT score of at least 1440 or a composite ACT score of at least 33 as well as a 3.50 computed grade point average. The essay portion of the SAT and ACT will be used for additional screening of the applicants. The students selected receive either:

- A cash award of \$12,000 (\$3,000

- per year) **OR**
- A cash award of \$4,000 (\$1,000 per year) and an on-campus room and board scholarship which covers the cost of a two-student, residence hall room valued at \$18,400 (\$4,600 per year) and the Resident Tiger meal plan valued at \$11,642 (\$2,908 per year) for a total value of \$30,032 (\$7,508 per year)
- Each recipient will receive a cash stipend of \$2,000 toward the cost of an approved Study Abroad program which may be utilized at anytime throughout the duration of the scholarship
- An opportunity to participate in either the Chancellor's Future Leaders in Research program or to become a Chancellor's Student

Aide and earn up to \$6,200 (\$1,550 per year) working in a campus job

Chancellor's Future Leaders in Research

This program offers a unique opportunity for students to conduct research early in their college career.

Entering freshmen who are awarded the Chancellor's Alumni Scholarship, LSU Alumni Association Top 100 Scholarship, and the Distinguished Freshman Award are automatically eligible to participate in this program.

Students are partnered with a faculty member in the field of their choice to work side-by-side in a research setting learning what a career in their chosen field may be like. As a member of the research team, students receive guidance and support to expand their knowledge and skills.

LSU Alumni Association Top 100 Scholars

Any student with a combined Critical Reading and Mathematics SAT score of 1440 or a composite ACT score of 33 as well as a 3.50 computed gpa is eligible for this award.

Any student with a combined Critical Reading and Mathematics SAT score of 1400 or a composite ACT score of 32 as well as a 4.00 computed gpa is eligible for this award.

Any student with a combined Critical Reading and Mathematics SAT score of 1400 or a composite ACT score of 32 as well as a superior computed gpa is eligible for consideration:

- A cash award in the amount of \$8,000 (\$2,000 per year)
- An opportunity to participate in either the Chancellor's Future Leaders in Research program or to become a Chancellor's Student Aide and earn up to \$6,200 (\$1,550 per year) working in a campus job
- Nonresident students receiving this award are eligible to receive a Golden Oaks award which covers tuition and the nonresident fee
- Special Notice: Students qualifying as National Merit Finalists who have indicated LSU as their first choice and who also meet the above requirements for the LSU Alumni Association (Top 100) Award will have the option of choosing the scholarship initially awarded to them, or an on-campus room and board scholarship which covers the cost of a two-student,

residence hall room valued at \$18,400 (\$4,600 per year) and the Resident Tiger meal plan valued at \$11,632 (\$2,908 per year) for a total value of \$30,032 (\$7,508 per year)

LSU National Scholars' Award

Any student who scores in the eightieth percentile of the PSAT, SAT, or ACT and/or ranks in the top 10 percent of their class; and who has been recognized as semifinalist or finalist in a national academic competitive program such as, but not limited to, National Merit, National Achievement, National Hispanic Scholars, Wendy's National Collegiate Heisman Award, Westinghouse Scholars, Gates Millennium Scholars, and Davidson Fellows. This award will be the equivalent of tuition, the nonresident fee (if applicable), and the registration fee.

Distinguished Freshman Awards (National Merit Finalists)

National Merit Finalists (college-sponsored) indicating LSU as their first choice institution are eligible for this award.

- A cash award ranging in value from \$3,000 to \$8,000 (\$750 to \$2,000 per year based on financial need)
- An opportunity to participate in the Chancellor's Future Leaders in Research program or to become a Chancellor's Student Aide and earn up to \$6,200 (\$1,550 per year) working in a campus job
- Nonresident students receiving this award are eligible to receive the LSU National Scholars award which covers tuition and the nonresident fee

LSU Honor Awards for ROTC Scholars

High school students who qualify for Air Force, Army, or Navy ROTC scholarships, as well as students who are selected as "alternates" or "advanced designees," receive a room and dining plan exemption (on-campus charges with certain limitations), providing all ROTC and academic requirements are maintained.

ROTC Scholarships

Air Force ROTC Scholarships

The Air Force ROTC College Scholarships Program offers assistance to outstanding men and women who enroll in the Air Force ROTC program. Most scholarships provide for payment of tuition (resident and nonresident), textbook expenses, laboratory and associated fees for required classes, and also include a tax-free monthly allowance during the school year. Male and female high school students are eligible for the four-year scholarship program if they complete an application prior to December 1 of their senior year.

For applications and procedures, interested students should apply to LSU and Air Force ROTC early during their senior year. Scholarship applications can be obtained by visiting the Web site: www.afrotc.com.

After applying, the student competes for the awards against other highly qualified students from around the nation.

Additionally, cadets enrolled in college have opportunities to be awarded scholarships of up to three and one-half years, depending upon their academic major and quality factors.

Army ROTC Scholarships

The Army ROTC Scholarship Program is designed to offer financial assistance to outstanding men and women who are interested in serving as an officer in the Army. Each scholarship provides for all tuition (resident and nonresident), Student Health Service fee, laboratory fees, other required fees, \$900 per year for books, and \$300-\$500 per month subsistence allowance for up to 10 academic months each year the scholarship is in effect.

Scholarships may be awarded for two, three, three and one-half, or four years. Four-year scholarships are open, on a competitive basis, to high school juniors and seniors. Applications for four-year scholarships must be completed and returned *prior to January 1* of the student's senior year in high school. Applications may be completed online at www.armyrotc.com or obtained by calling 1-800-USAROTC. The on-campus three- and two-year scholarships are open, on a competitive basis, to all qualified undergraduate or graduate students. Applications for these scholarships are obtained from the Professor of Military Science. In addition to the benefits provided by Army ROTC scholarships, LSU will provide room and board at no cost to all ROTC scholarship recipients. For most of the scholarships, a student can expect to incur an active duty obligation of four years or eight years in a reserve component upon graduation and commissioning.

Navy ROTC Scholarships

The National Competition Navy ROTC Scholarship Program is designed to provide four, three, or two years of financial assistance to outstanding young men and women working toward the bachelor's degree. NROTC scholarships provide for the University fee, nonresident fee, books, laboratory fees, and \$100 per month subsistence allowance.

Interested students should apply to the NROTC Navy-Marine Corps Scholarship Program, P.O. Box 5909, Washington, DC 20014 before December 1 or contact the Navy recruiter at the NROTC Unit, Southern University, Baton Rouge; telephone 225-771-4370 or 774-3521 (collect).

LSU students who join the Naval ROTC Program at Southern University become eligible to compete for NROTC scholarships while actively participating in the program. These scholarships are awarded following each semester's performance. The Professor of Naval Science nominates students enrolled in the NROTC college program based on their demonstrated academic performance and aptitude for service as commissioned officers in the U.S. Navy or Marine Corps. Midshipmen may choose the Marine Corps option prior to beginning their junior year.

Additional information may be obtained by contacting the Professor of Naval Science, NROTC Unit, Southern University, Baton Rouge 70813; telephone 225-771-4370 or 225-774-3521 (collect). Students incur no obligation while participating in the freshman

and sophomore years of NROTC. There is no additional cost to LSU students to cross-enroll in the NROTC Program.

Chancellor's Leadership Scholarships

Approximately 100 awards valued at \$1,000 (\$500 per semester) for one year are available. To be considered for this award, applicants must demonstrate excellent leadership skills, possess commendable high school academic records.

Chancellor's Student Aide Program

This program provides an opportunity for students to work in one of many departments on campus and earn up to \$1,550 per year. These awards are made on the basis of standardized test scores and high school academic record. Approximately 550 new awards are available each year.

SCHOLARSHIPS FOR LOUISIANA STUDENTS

The Pelican Promise Award

LSU is committed to institutional access and affordability to students of all socio-economic levels. The Pelican Promise Award program is designed to attract and support Louisiana students who are economically disadvantaged and academically qualified.

To qualify, students must be eligible for admission to the University, must be eligible for a Federal Pell Grant, and must have a family income equal to or less than 150 percent of the poverty level.

Eligibility for the Pelican Promise will be determined once the student has completed the Free Application for Federal Student Aid (FAFSA) and applied for all federal, state, and LSU resources. Please note that a FAFSA must be completed each year to renew eligibility for the Pelican Promise Award. This award exempts students from the payment of tuition and the registration fee.

LSU Centennial Award

Louisiana residents with a combined Critical Reading and Mathematics SAT score of 1330 or a composite ACT score of 30 as well as a 3.00 computed grade point average are eligible to receive this award.

- A cash award in the amount of \$ 4,000 (\$1,000 per year)
- An opportunity to become a Chancellor's Student Aide and earn up to \$6,200 (\$1,500 per year) working in a campus job

SCHOLARSHIPS FOR NONRESIDENT STUDENTS

Golden Oaks Awards

Nonresident students selected as recipients of Chancellor's Alumni or LSU Alumni Association (Top 100) are eligible to receive this award.

Nonresident students with a combined Critical Reading and Mathematics SAT score of 1330 or a composite ACT score of 30 as well as a 3.00 computed gpa are eligible to receive this award.

- Exemption from the payment of tuition and nonresident fees
- An opportunity to become a Chancellor's Student Aide and earn up to \$6,200 (\$1550 per year) working in a campus job

Tiger Scholars

Nonresident students with a combined Critical Reading and Mathematics SAT score of 1170 or a composite ACT score of 26 as well as a 3.00 computed grade point average are eligible to receive this award. The award will be applied to nonresident fees. Amounts vary based on academic credentials and standardized test scores.

Bengal Legacy Scholarships for Nonresident Sons and Daughters of LSU Graduates

Bengal Legacy Scholarships are available for nonresident sons and daughters of an LSU System school graduate. Recipients of these awards receive a 75 percent exemption of the nonresident fee. To qualify, an applicant must be classified as a nonresident undergraduate student (no previous degree), must be the natural, adopted, or step child of a graduate of any LSU System school, and must qualify for regular admission to the University.

To apply for this scholarship indicate "yes" on the application where it asks if your father or mother graduated from a school in the LSU System. Afterward, an application will automatically be mailed to you from the Office of Undergraduate Admissions & Student Aid (225-578-1175).

LSU Scholarships for International Students

A limited number of scholarships are awarded to international students each fall semester. Scholarships for first-time freshmen include awards which cover tuition and the nonresident fee, as well as, awards that apply to the nonresident fee only. Transfer students are awarded scholarships which apply to the nonresident fee only. Amounts vary based on academic credentials. Students applying for international scholarships must submit the application for admission, transcripts, test scores, and all other required information by **January 1**. Awards are made on the basis of academic records: high school records, college transcripts, TOEFL, SAT and/or ACT scores. Letters of recommendation, awards, activities, and evidence of financial need are not considered. LSU has high standards for all international applicants, and scholarships are awarded only to the top applicants.

LSU Study Abroad Scholarship Program

Undergraduate students planning to participate in an approved LSU Study Abroad Program are eligible for consideration for awards ranging from \$1,000 to \$3,000 each year. To be considered, students must have at least a 3.00 cumulative grade point average, must have earned a minimum of 30 hours at LSU, and must be concurrently enrolled at

LSU during the study abroad period. Applications for these awards are available each January through the Office of Undergraduate Admissions & Student Aid Web site at www.lsu.edu/financialaid.

TOPS—Louisiana's Tuition Opportunity Program for Students

Louisiana residents meeting certain eligibility requirements will qualify for tuition assistance and, in some cases, cash stipends through this state-funded program. TOPS has three components: (1) the *Opportunity Award* provides tuition assistance for four years; (2) the *Performance Award* provides tuition assistance and a \$400 per year cash stipend for four years; and (3) the *Honors Award* provides tuition assistance and a cash stipend of \$800 per year for four years. Each of these components has certain ACT score and gpa requirements; in addition, all TOPS awards require 17.5 units of specified high school course work.

To apply for TOPS awards, the Free Application for Federal Student Aid (FAFSA), which corresponds to the year in which the student plans to enroll, must be submitted by the deadline published in the FAFSA.

More detailed information on these programs may be obtained from the Louisiana Office of Student Financial Assistance, Scholarship Division, P. O. Box 91202, Baton Rouge, Louisiana 70821-9202 or by visiting their Web site at www.osfa.state.la.us.

Louisiana Go Grant

The Louisiana Go Grant is a need-based award program administered by the Louisiana Office of Student Financial Assistance. The application for the Louisiana Go Grant is the FAFSA which must be completed each academic year for evaluation of renewal eligibility.

To be eligible to receive the Louisiana Go Grant, the following criteria must be met:

- Louisiana resident as defined by the Louisiana Office of Student Financial Assistance
- Students must be admitted and enrolled as a certificate or degree-seeking undergraduate student at a Louisiana public or private college or university; (1) as a first-time freshman or (2) aged 25 or older and not having enrolled in a college or university in credit bearing courses for at least one year
- Demonstration of financial need based on information reported on the FAFSA

Award amounts for the Louisiana Go Grant are \$2,000 for students enrolled full-time, \$1,000 for students enrolled less than full-time, and \$500 for students enrolled less than half-time.

For additional information about the Louisiana Go Grant, contact the Louisiana Office of Student Financial Assistance at 1-800-259-5626, ext. 1012, or visit the Web site at www.osfa.state.la.us.

Other LSU Scholarships and Awards

There are two types of scholarships listed below—those restricted to students according to their major or college and those that are open to all students regardless of their major or college. Most scholarships are restricted to full-time students.

All other applications, when required, may be obtained from the department or college listed in the description of the scholarship.

The description of each scholarship follows the same format: title; number given and annual amount of each, e.g., "(2:\$300)" means that two scholarships are awarded per year at \$300 each; any criteria or restrictions; and the group that determines which students will receive the scholarship. The following abbreviations are used in the scholarship descriptions:

FR.....	freshman
SO.....	sophomore
JR.....	junior
SR.....	senior
UG.....	undergraduate
GR.....	graduate student
LA.....	Louisiana
yr.....	year
gpa.....	grade point average
SA&S Com.....	Stud. Aid & Schol. Com.
EBR.....	East Baton Rouge Parish

Scholarships and Awards Restricted to a Particular Field of Study

Students interested in applying for the following scholarships and awards should check with the individual colleges for up-to-date information concerning amounts and requirements. *Those scholarships and awards marked with one asterisk (*) are funded through the LSU Foundation. Those marked with two asterisks (**) are sponsored by the LSU Alumni Association.*

COLLEGE OF AGRICULTURE

Agriculture Development Council Scholarship Full-time UG student in the Col. of Agr.; FR must have a 2.5; SO, JR, and SR must have a 2.75. Preference given to students with financial need.

Air Force ROTC Scholarship Four-year scholarship for entering FR desiring a career as military officer; two- and three-year programs available for qualified SO/JR/SR; see ROTC for details.

Army ROTC Scholarship Four-year scholarship for entering FR desiring to serve as Army officers; two- and three-year on-campus scholarships available for students attending LSU; see ROTC or Dept. of Military Science for details.

E. M. Barham Memorial Scholarship Entering FR in RNR with specific focus on conservation, development, & management of nat. res.; with a minimum high school gpa of 3.0 and 22 ACT composite; leadership abilities and citizenship will be considered; preference given to LA residents.

BASF Endowed Scholarship Student if Col of Agr.; FR minimum 2.50 gpa to retain for second semester; SP, JR, Sr 2.50 minimum gpa to obtain. Preference given to African American applicants.

Lee Berwick Working Student Scholarship Full-time undergraduate in the Col. of Agr.; 2.00 H.S. gpa and minimum 2.00 college gpa; recipients must work 100 hrs. per sem. during the time they receive the award; preference given to residents of LA or to a child or grandchild of a LA resident, or to a student whose parent(s) are LSU alumni; students of TX, AR, and MS may be considered; preference to students who show financial need.

Jules P. Bordelon Memorial Scholarship Fund Full-time UG in Col. of Agr.; SO, JR, SR or transfer regularly admitted; graduates of LA School for the Agricultural Sciences; or residents of Avoyelles Parish.

Ralph Brown Endowed Scholarship Full-time UG student in Col. of Agr. pursuing a major in horticulture; preference to LA resident; FR who qualify for TOPS or transfer or continuing students with 2.75 gpa eligible.

Capital Bank & Trust Agricultural Scholarship

Full-time upperclassman enrolled in the Col. of Agr.; ag. bus. major; 3.0 LSU overall gpa LA resident with a strong interest in the banking profession and a desire to enter that field upon graduation; financial need.

Dean Mason C. Carter Scholarship Full-time student in Col. of Agr.

C. W. Causey Scholarship in the College of Agriculture Full-time UG student in Col of AG pursuing a degree in ag. econ; agribus., animal or poultry sci., renewable nat. res., or human res. educ.; minimum 2.50 HS gpa; resident of Claiborne, Lincoln, Morehouse, Ouachita, or Union parishes; selection based upon financial aid, leadership, character, citizenship, potential contribution to community.

Century Club Scholarship Entering FR in the Col. of Agr. with a minimum high school gpa of 3.0 and 22 ACT composite.

Chancellor's Classic Golf Scholarship SO, JR, or SR in good standing with a 2.50 gpa; must have an expressed interest in a Col. of Agr. major.

Charles Stewart Churchill Memorial Scholarship Outstanding upperclass student in the Col. of Agr. with an LSU cumulative average of at least 3.0; applicants must be recommended by the heads of their departments.

College of Agriculture Alumni Association Scholarship Full-time UG student at LSU enrolled in the Col. of Agr.; FR who are regularly admitted to the univ. and continuing or transfer students with a college gpa of 2.75.

College of Agriculture Phon-A-Thon Scholarship Full-time UG student in the Col. of Agr. with a 2.75 gpa; FR who qualifies for TOPS scholarship program and transfer students with a college gpa of 2.75.

Horace J. Davis Scholarship Full-time UG in the Col. of Agr.; minimum 2.50 gpa in order to obtain; may be retained for future years; preference given to students with financial need.

Mary Owens Day Memorial Scholarship Full-time undergraduate in the Col. of Agr.; FR who is regularly admitted to the univ. and continuing or transfer students with a 2.50 gpa.

Deep South Scholarship Award - Full-time entering FR. Must be an LA resident and have graduated from an LA high school.

Sibyl and Joseph Dorè Memorial Scholarship One FR majoring in agr. bus., biol. eng., food science & tech., plant & soil systems; hs gpa 3.0 and 25 ACT; minimum 3.0 gpa in the FR year; one SR majoring in agribus. biol. engr., food science & tech., or plant & soil systems; maintained highest gpa for three yrs. at LSU.

Downtown Kiwanis Club of Baton Rouge Agriculture Scholarship Incoming FR pursuing career in food & fiber production, food & fiber processing, conservation of nat. res., and protection or improvement of the environ. LA resident; EBR and adjoining parishes will be shown preference; minimum hs gpa of 2.75 on all high school work and minimum ACT score of 21; financial need.

George Fasting Scholarship Full-time student in the Col. of Agr.

Murphy J. Foster Scholarship Entering FR in Col. of Agr. with a minimum high school gpa of 3.0 and 22 ACT composite; preferably from St. Mary, Iberia, Vermilion, or surrounding parishes; majoring in agribus. or plant & soil systems.

Joseph W. Freeland International Agriculture Scholarship Graduate of EAP-Zamorano; must be classified as either JR or SR; academic ability; financial need; desire to serve agri. in home country after graduation.

J. B. Frye, Jr. Scholarship in Dairy Science UG majoring in dairy food technology or dairy production; FR must have minimum high school gpa of 3.0; all others must have minimum overall gpa of 2.5; preference to FR.

S. W. "Buck" Gladden, Jr. Memorial Coastal Conservation Association Scholarship Fund Full-time UG in Col. of Agr. majoring in Natural Resource Ecology & Management; minimum 3.00 gpa; preference given to students with financial need.

James D. Graugnard—Louisiana Farm Bureau Scholarship Entering FR in the Col. of Agr. with a minimum high school gpa of 3.0 and 22 ACT composite; leadership, citizenship and interest in agri.

Greater Baton Rouge State Fair/George Simoneaux Scholarship Full-time JR or SR in the Col. of Agr. with a minimum overall gpa of 3.0; resident of East Baton Rouge, Ascension, East Feliciana, Iberville, Livingston, Saint Helena, or West Baton Rouge Parish; participant in County Agent 4-H or FFA programs; financial need.

Iberia Parish Farm Bureau Federation Scholarship SO, JR, SR in Col. of Agr. with minimum overall gpa of 2.75;

resident of Iberia Parish and graduate of an accredited Iberia Parish High School; financial need.

Mac Kasoaka Memorial Scholarship FR enrolled in the Col. of Agr.; hs gpa of 3.0 or better and ACT composite score of 21 or higher; interest in the science or business aspect of agr.

Dean Kenneth Koonce Scholarship Full-time student in Co. of Agr.

LA Farm Bureau Scholarship LA resident who has been affected by a hurricane.

Lloyd Lauden Scholarship UG in the Col. of Agr. majoring in agribusiness, biological engr., food sci. & tech., or plant & soil systems; academic ability; participation in student activities, citizenship, honors, & student offices held; preference given to students from sugar cane growing areas of the state who have interest in the sugar cane industry.

Dean J. G. Lee, Jr. Scholarship Entering FR in the Col. of Agr. with a minimum high school gpa of 2.5 and 21 ACT composite; LA resident; financial need; service to school and community; character; leadership.

Louisiana Cattle Women—Emily Smith Fairchild Memorial Scholarship Full-time JR in the Col. of Agr. with a minimum overall gpa of 2.5; parents or grandparents must belong to the LA Cattleman's Assoc.; preference given to a female.

Louisiana County Agricultural Agents Associate—4-H Scholarship Fund Incoming FR in Col of Agr.; minimum 2.50 gpa; 4-H member; applicants must be recommended by their 4-H agent(s).

Louisiana Divisions of American Society of Sugar Cane Technologists Scholarship Full-time JR or SR enrolled in the Col. of Agr. majoring in ag. bus., biol. engr., envir. mgmt. syst., or plant & soil syst. (agronomic crops or soil science); applicant must have a min. 3.00 gpa; preference will be given to residents of sugar cane producing parishes.

Louisiana Seedsmen's Association Scholarship Upperclassman with 2.75 gpa pursuing an undergraduate or graduate degree in the Col. of Agr. must show strong interest in plant sciences and plan to pursue a career in the fields of agronomy or horticulture; must be a U.S. citizen and LA resident; preference given to students who have demonstrated academic ability, participation in student activities, citizenship, leadership skills, and affiliation with professional plant sciences associations.

Emile A. Maier Endowed Scholarship in Agriculture Full-time UG in the Col. of Agr.; preference given to male who has financial need.

Blanche E. and Dennis V. McClosky Scholarship Full-time student enrolled in the Col. of Agr. pursuing a major in ornamental horticulture; preference given to LA residents; FR who qualify for TOPS and continuing or transfer students with a 2.75 gpa; recipient will be encouraged to pursue internship at a commercial nursery prior to graduation.

David B. Means Memorial Endowed Scholarship Entering FR majoring in agribusiness, animal science, dairy science, or plant & soil systems; academic ability; participation in student activities; citizenship, honors won, offices held; financial need.

John Walker Melton Scholarship in the College of Agriculture Full-time UG student in Col. of Agr. pursuing a degree in ag. econ., agribus., animal or poultry sci., renewable nat. res., or hum res. educ.; minimum 2.50 HS gpa; resident of Claiborne, Lincoln, Morehouse, Ouachita, or Union parishes; selection based upon financial aid, leadership, character, citizenship, potential contribution to community.

Laurie S. and Helen N. Mobley Scholarship Entering FR; resident of LA; 3.0 high school gpa and 22 ACT; preference to residents of Pointe Coupee; financial need.

Monsanto Scholarship Full-time student majoring in farming/traditional ag, ornamental horticulture, wildlife conservation, animal nutrition, biotechnology, and food sciences.

Shelby Robert Family Endowed Memorial Scholarship Incoming FR majoring in Dept. of Animal Sci. or Dept. of Ag. Econ. and Agribus.; LA residents; 3.00 HS gpa and 22 ACT; leadership abilities; citizenship.

Stapleotn Scholarship Full-time UG; FR who qualify for TOPS, SO, JR, and SR with a college gpa of 2.75. Must be a resident of LA with priority given to those students whose families are involved in cotton farming or connected to the cotton industry.

Tiger Athletic Foundation Undergraduate Scholarship Entering FR or full-time student in the Col. of Agr.; minimum 2.50 gpa.

James W. and Edna F. Trott Scholarship Full-time UG in the Col. of Agr.; 2.0 gpa; if incoming FR, must have an overall gpa of 2.50. SO, JR, SR must have an overall gpa of 2.75.

James W. Trott, Jr. Scholarship Full-time student with declared major in Col. of Agr.; 2.75 gpa; incoming FR with 2.50 overall gpa.

COLLEGE OF ART & DESIGN

AIA/AAF Scholarships (varies) Awarded on a competitive basis to fourth- or fifth-yr. students in arch. by the Nat. Am. Inst. of Architects.

Alpha Rho Chi Medal (1) Graduating student in arch. with outstanding service to school and/or profession.

American Institute of Architects Certificate (1) Graduating student in arch. with second highest gpa; awarded by Nat. Am. Inst. of Architects through Sch. of Arch.

American Institute of Architects Medal (1) Graduating student in arch. with highest gpa; awarded by Nat. Am. Inst. of Architects through the Sch. of Arch.

American Society of Landscape Architecture (1:\$500) Based on scholarship and financial need; awarded by Sch. of Land. Arch.

William R. Brockway, FAIA Scholarship Fund (varies:varies) FT UG in Arch.; preference given to students who have demonstrated interest in the field of historical conservation; awarded by the School of Architecture.

Charles Craig International Travel Award in Memory of Joseph Aurbach (1:\$5,000) Outstanding student in the School of Art.

Certificate of Merit, American Society of Landscape Architects (1) Outstanding SR in land. arch.; awarded by Sch. of Land. Arch.

Miriam Garic Barranger Scholarship (1:\$1,000 annually as funds become available) UG in ceramics; awarded by Sch. of Art.

Baton Rouge Art League Award (1:\$250) JR/SR/GR in art with minimum 3.00 gpa; awarded by Sch. of Art.

Atwell E. Champion Scholarship (1:\$500) UG in land. arch.; 2.50 or better gpa; awarded by Sch. of Land. Arch.

Dean's Medals (4) Outstanding graduate in arch., art, interior des.; and land. arch.; evaluation of portfolio and potential in professional field; nominated by faculty; awarded by dean.

***Terry Devine Memorial Scholarship (1:varies)** Fourth- or fifth-yr. student in arch.; awarded by Sch. of Arch.

***Caroline Durieux Scholarship (varies)** UG in art; awarded by Sch. of Art.

J. Kenneth Edmiston Memorial Scholarship (2:\$500) JR, SR concentrating in ceramics, graphic design, painting/drawing, printmaking, or sculpture; 3.00 gpa; apply each semester; awarded by Sch. of Art.

I. Vincent Guacero Memorial Scholarship (1:varies) SR interior design major with demonstrated outstanding design capability; awarded by Dept. of Interior Design.

***Harvey Scholarship (2:tuition)** Fifth-yr. student in arch. and land. arch.; awarded by Sch. of Arch. and Sch. of Land. Arch. based on academic performance and financial need.

William Hornsey Scholarship (1:\$350) Based on scholarship and financial need; awarded by the Sch. of Land. Arch.

Norman L. Koonce, FAIA Scholarship in Architecture (varies:varies) FT UG in Arch.; awarded by the School of Architecture.

Landscape Architecture Endowment (varies:varies) Based on scholarship and financial need; awarded by the Sch. of Land. Arch.

***Alice Hovey Littlefield Memorial Scholarship (1:varies)** Female UG in land. arch.; awarded by Sch. of Land. Arch.

Louisiana Garden Club Federation, Inc., Scholarship (varies:varies) Outstanding student in land. arch.; LA resident; based on scholarship and financial need; awarded by Sch. of Land. Arch.

Outstanding Undergraduate Painter (2:varies) Awarded by painting faculty based on portfolio, School of Art.

Phi Kappa Phi Outstanding Senior Award (1:Certif.) SR with highest gpa; selected by dean, Col. of A & D.

***Helen Adams Reich Memorial Scholarship (6:\$500)** Preference to nonresident UG in land. arch.; awarded by Sch. of Land. Arch.

***Root and Associates Scholarship in Graphic Design (1:\$500)** Student in graphic desn.; awarded by Sch. of Art.

Dixon Smith Educational Scholarship (1:varies) SR interior des. major; evaluation of portfolio; awarded by Dept. of Interior Design.

Torre Scholarship in Landscape Architecture (1:varies) Awarded to outstanding UG in design through the Sch. of Land. Arch.

Scott Gerard Verrett Scholarship (1:varies) JR interior des. major; gpa of 3.00 or better; true financial need; awarded by Dept. of Interior Design.

Yarberry's Scholarship Fund (1:\$125) JR in graphic design; awarded by Sch. of Art.

Undergraduate Student Interior Design Scholarship (1:varies) Awarded to UG interior design major; evaluation of portfolio, scholastic excellence and financial need; awarded by Dept. of Interior Design.

Torres Scholarship in Interior Design (1:varies) Awarded to UG Interior Design major; evaluation of portfolio, scholastic excellence and financial need; awarded by Dept. of Interior Design.

M. Dorothy Fletcher Field Studies Fund (varies:varies) Awarded to UG Interior Design major; field study proposal and financial need; awarded by Dept. of Interior Design.

COLLEGE OF ARTS & SCIENCES

Above and Beyond Scholarship (1 per semester: \$100) Outstanding FR Air Force ROTC cadet involved in Cadet Wing; awarded by Dept. of Aerospace Studies.

Air Force Association Cadet Scholarship (4:\$250) Outstanding JR or SR Air Force ROTC cadet active in Cadet Wing; awarded by Dept. of Aerospace Studies.

Air Force ROTC Scholarship Four-year scholarship for entering FR desiring career as military officer; two- and three-year programs available for qualified SO/JR/SR; see ROTC for details.

American Legion ROTC Cadet Scholarship (varies:varies) Outstanding JR Air Force ROTC cadet with financial need; awarded by Dept. of Aerospace Studies.

Armed Forces Communication and Electronics Association Scholarship (1:\$2,000) Outstanding JR Air Force ROTC cadet majoring in computer or mathematics related discipline; awarded by the Dept. of Aerospace Studies.

Army ROTC Scholarship Four-year scholarship for entering FR desiring to serve as Army officers; two- and three-year on-campus scholarships available for students attending LSU; see ROTC or Military Science for details.

Arts and Sciences Athletic Scholarship (varies:varies) A&S student; must have overall 3.40 gpa and in LSU System; awarded by Col. of A&S.

Arts and Sciences Advisory Council Scholarship (varies:varies) A&S student with financial need; must have 3.40 gpa overall and in LSU System; awarded by the Col. of A&S.

Arts and Sciences Tiger Athletic Foundation Scholarship (varies:\$1,000) A&S student with financial need; must have a 3.40 gpa overall and in LSU System; awarded by the Col. of A&S.

Barcelonette Scholarship (varies:varies) UG student who has completed five semesters of FREN (through 2155); selection criteria includes scholarship, statement of intent, and conversational skills; awarded by Dept. of Fren. Studies.

Brenda Bercegeay Memorial Award (1:\$1,000) Incoming FR enrolled in the College of A&S; must have a 3.0 or higher gpa; must be from Ascension Parish; awarded by College of A&S.

Robert N. Bersuder Endowed Scholarship (2:varies) Outstanding JR in history.

George C. and Merrit D. Betts Endowed Scholarship (varies:varies) Nonresident of Louisiana; must be U.S. citizen; 3.50 overall gpa and in LSU System; awarded by the Col. of A&S.

Sheldon Beychock Chancellor's Leadership Scholarships in Political Science (8:\$1,000) Two scholarships for entering FR students; two for SO; two for JR; and two for SR; gpa of 3.00 and/or ACT of 25; awarded by a scholarship committee selected from Dept. of Pol. Sci.

George Warren Bofinger Endowed Scholarship (varies:varies) A&S student with financial need; must have 3.40 overall gpa and in LSU System; awarded by the Col. of A&S.

Peter Burland Endowed Scholarship See *College of Basic Sciences*.

Cadets of the Ole War Skule Scholarship (varies:varies) SOPH Air Force ROTC cadet with potential and financial need during the freshman spring term.

Roderick Lewis Carleton Fellowship (1:\$450) GR in pol. sci.; awarded by Dept. of Pol. Sci.

Gale Carrithers Outstanding Essay Award (varies:varies) Outstanding GR in ENGL; awarded by Dept. of English.

Matt Clark Memorial Fellowship (1:varies) FT graduate student pursuing MFA in creative writing with minimum 3.5 gpa; awarded by Dept. of Engl.

William M. Clarke Scholarship (varies:varies) Full-time UG majoring in Classics with overall LSU gpa of at least 3.00 and at least 3.30 in Classics. Must have completed one year residence at LSU and have shown significant progress toward a degree in Classics (Latin, Greek, or equivalent); awarded by Dept. of For. Lang. & Lit.

Richard M. Cole Fellowship (1:varies) FT graduate student in history; fellowship is designed to help cover expenses for travel to archives and libraries to complete doctoral dissertation; preference given to students working in European history east of Rhine River; awarded by the Dept. of Hist.

College Supply Book Store Award (2:varies) Outstanding SO and JR UG soc. major; awarded by Dept. of Soc.

M. Jane Collins Endowed Scholarship (varies:varies) Full-time UG majoring in COMD; awarded by Dept of Communication Sciences & Disorders.

Thomas A. and Peggy S. Collins Scholarship (1:varies) Full-time incoming freshman enrolled in Col. of Arts and Sciences with financial need; GPA 3.0; preference of Jena High School or LaSalle Parish resident; awarded by College of A&S.

General A. Harry Conrad ROTC Scholarship (varies:varies) FT cadet in Dept. of Aerospace Studies or Military Science; must demonstrate leadership, potential and meet ROTC requisite academic and physical fitness standards; awarded by Dept. of Military Science and Aerospace Studies.

Creative Writing Awards (varies:varies) UG and GR students majoring in creative writing in Engl. Dept; awarded by the Dept. of Engl.

Gary A. Crump Scholarship (1:varies) Outstanding JR in history; awarded by Dept. of Hist.

Louis D. Curet Scholarship (varies:varies) FT student majoring in FREN with a minimum overall gpa of 3.0; awarded by the Dept. of Fren. Studies.

Jane Lucas Degrummond Memorial Scholarship (varies:varies) FT Jr. or Sr. majoring in HIST with a minimum overall gpa of 3.0; awarded by Dept. of History.

Colonel Charles J. "Chuck" Dumas Air Force ROTC Scholarship (2:varies) FT cadet in Dept. of Aerospace Studies with financial need; must demonstrate leadership potential and meet the ROTC requisite academic and physical fitness standard; awarded by Aerospace Studies.

ENT Audiology Fellowship (2:\$2,500) GR in final yr. of master's program in audiology; outstanding academic and clinical performance; one awarded each sem. by Dept. of Comm. Sci. & Dis.

European Summer Session Latin Scholarship (3:\$300) Awarded to Latin majors to supplement fees resulting from European Summer session; awarded by Dept. of For. Lang. & Lit.

Kenneth S. Falk Award (1:\$450 and plaque) UG in Greek; based on recommendation of head of classics; awarded by Dept. of For. Lang. & Lit.

Cheryl Colletta Fasullo Scholarship (varies:varies) Nonresident of Louisiana; must be a U.S. citizen; majoring in PSYC or SOCL with interest in pursuing a career in teaching; awarded by College of A&S.

Undine Livaudais Fitzgerald Award (1:varies) Outstanding French student participating in LSU in Paris program; awarded by Dept. of French Studies.

Ned P. Folse Scholarship in Classical Language and Literature (varies:varies) Outstanding student majoring in Classical Studies; awarded by Dept. of For. Lang. & Lit.

Fred C. Frey Memorial Scholarship Award (varies:varies) Competition for outstanding scholarly paper by UG soc. majors; awarded by the Dept. of Soc.

Friends of French Studies Graduate Student Scholarship (varies:varies) GR majoring in French interested in French for Business concentration; awarded by Dept. of French Studies.

Paul Grosser Award (1:\$200) Graduate student teaching award; awarded by Dept. of Pol. Sci.

Andrew A. Gunby Award (1:\$50 and plaque) Outstanding graduating SR in Latin; awarded by Dept. of For. Lang. & Lit.

William G. Haag Award (2:\$100) MS and PhD students in geog. & anth. presenting the most outstanding papers in professional meetings; awarded by Dept. of Geog. & Anth.

Elliott Dow Healy Memorial Fellowship (varies:varies) Outstanding GR in French language, literature, or culture; special preference given to students in Old French and/or Old Provencal; awarded by Dept. of French Studies.

Colonel J. L. Hendrickson Scholarship (varies:varies) FT student enrolled in the Air Force ROTC Cadet Group with a minimum Gpa of 2.5; awarded by Dept. of Aerospace Studies.

Robert B. Holtman Memorial Scholarship (varies:varies) FT UG majoring in History with a minimum overall Gpa of 3.0; awarded by Dept. of History.

Henry V. Howe Memorial Scholarship Fund See College of Basic Sciences.

Major General Oris B. Johnson Scholarship (varies:varies) AFROTC cadet; awarded by the Dept. of Aerospace Studies.

Elise S. and Charles E. Kaufman Endowed Scholarship (varies:varies) A&S student with financial need; must

have 3.40 overall gpa and in LSU System; awarded by the Col. of A&S.

***Agatha LaCroix Award (1:varies)** Outstanding student in French; awarded by Dept. of French Studies.

Lt. Col. Edward Blaise Landry Air Force ROTC Scholarship (varies:varies) FT Jr. or Sr. enrolled in the Air Force ROTC program; awarded by Col. of A&S and Dept. of Aerospace Studies.

Lange-Button-King Scholarship (1:\$600) JR or SR in religious studies with special interest and aptitude in religious studies and in natural or social sci.; awarded by rel. studies faculty.

Hoguet Alexander Major Memorial Scholarship (varies:varies) UG or Grad students pursuing the study of the French language, rather such study be as part of a business curriculum or a teacher of French; minimum 3.00 gpa. Awarded by the Dept. of French Studies.

Herbert Huey McElveen Scholarship (1:\$500) A&S student; must have overall 3.40 gpa and in LSU System; awarded by Col. of A&S.

Mr. & Mrs. James S. McHugh Scholarship (varies:varies) A&S student; must have an overall 3.50 gpa (and LSU System). Awarded by the Col. of A&S.

Gay Miller Meaker and Harold N. Meaker Scholarship (1:varies) SO, JR, or SR majoring in history with a minimum overall 3.0 gpa; must be LA resident; awarded by the Dept. of Hist.

Military Officers Association ROTC Cadet Scholarship (1:\$100) Outstanding JR or SR Air Force ROTC cadet active in Cadet Wing; awarded by Dept. of Aerospace Studies.

Kevin Moore Memorial Scholarship (varies:varies) FT student majoring in HIST or ENGL; awarded by College of A&S.

Sidney Richards Moore Fellowship in Political Philosophy (varies:varies) FT graduate student studying political philosophy with financial need; awarded by College of A&S.

Mu Sigma Rho Outstanding Upperclassman Scholarship (1:varies) Award to benefit a graduate of LA high school pursuing an UG degree in the Col. of A&S; awarded by Col. of A&S.

Emogene Pliner Fellowship (1:\$750) GR in pol. sci.; awarded by Dept. of Pol. Sci.

Police Jury Association of Louisiana Scholarship (1:\$250) SR in pol. sci.; LA resident; graduate of LA high school; awarded by Dept. of Pol. Sci.

***Roddy L. Richard General Studies Scholarship (1:varies)** At least 36 hours in gen. studies curriculum; full-time; at least 3.00 gpa.

Karl and Sue Roider Undergraduate Scholarship (1:\$500) FT UG student who had demonstrated consistent academic progress and has minimum overall gpa of 3.5; awarded by the Col. of A&S.

Richard J. Russell Awards in Physical Geography (varies: up to \$1,500) GR in geography conducting field research in physical geography; awarded by Dept. of Geog. & Anth.

Corinne L. Saucier Romance Language Scholarship (1:\$1,000) Graduating SR in French or Spanish; for advanced study at LSU or in foreign country; preference to students planning to teach; awarded by Dept. of For. Lang. & Lit. and Dept. of French Studies.

Stephen P. Schierling Scholarship (varies:varies) UG majoring in For. Lang. & Lit. with a minimum overall gpa of 3.0; awarded by Dept. of For. Lang. & Lit.

Paco Schoonover Scholarship in Creative Writing (1:varies) FT or PT student; preference given to those majoring in creative writing and who have overcome obstacles (e.g., illness or disability) to pursue college career; awarded by Dept. of Engl.

Harvey Jay and Betty Adele Jacobs Schwartzberg Fellowship (1:\$500) First year GR student in A&S; 3.50 UG overall gpa and in LSU System; awarded by the Col. of A&S.

Edward Salmond Shirley Scholarship in Philosophy (1:\$700) UG or GR majoring in philosophy or religious studies; awarded by the Department of Philosophy and Religious Studies.

T. Clayton Simmons Memorial Scholarship (1:\$500) Full-time incoming freshman enrolled in Col. of Arts and Sciences; GPA 3.0; preference of Bossier Parish resident and participant in 4-H; awarded by College of A&S.

Thomas E. & Rebecca Reeves Simmons Scholarship in Memory of Thomas Clayton Simmons (varies:varies) FT incoming freshman enrolled in College of A&S; preference of Bossier Parish resident and participant in 4-H; awarded by College of A&S.

Barbara Sims Newsletter Scholarship (1:varies) A&S student with financial need; must have 3.40 overall gpa and in LSU System; awarded by Col. of A&S.

James M. Smith, Jr. Endowed Scholarship in Romance Languages (varies:varies) Outstanding UG majoring in a Romance Language; awarded by Dept. of For. Lang. & Lit. and Dept. of French Studies.

Stage Acadie Scholarship (1:\$1,000) UG student who has completed five semesters of French (through FREN 2155); selection criteria includes scholarship, statement of intent, and conversational skills; awarded by Dept. of French Studies.

Adam Shelby Holmes Trappey Memorial Scholarship (1:varies) Most outstanding incoming GR in French; awarded by Dept. of French Studies.

Clara Tucker Scholarship (1:\$1,500) Female GR in pol. sci.; awarded by Dept. of Pol. Sci.

United Services Automobile Association Scholarship (varies:varies) SOPH and JR Air Force cadets in the top 10 percent of Air Force class and top 25 percent of graduating class; awarded by College of A&S.

Eric Voegelin Institute Scholars Support Fund (1:varies) FT or PT postgraduate student engaged in full- or part-time research; award is for one year; awarded by the Eric Voegelin Institute.

Gary J. Weill Memorial Scholarship (1:\$500) GR in pol. sci. pursuing career in public sector; awarded by Dept. of Pol. Sci.

Robert C. West Field Research Award (varies:up to \$1,500) GR in geog. & anth. conducting field work for thesis or dissertation; awarded by Dept. of Geog. & Anth.

T. Harry Williams Fellowship (1:varies) FT PhD student in history; purpose is to facilitate recipient's work on dissertation; awarded by the Dept. of Hist.

Ross Willis College Supply Book Store Award (1:varies) Outstanding SR UG soc. major; awarded by the Dept. of Soc.

LTC John Trigg Wood, III Memorial Scholarship (varies:varies) Awarded by the Dept. of Mil. Sci.

LSU President & Mrs. M.D. Woodin-Dearing Family Scholarship (2:varies) Full-time UG majoring in history; awarded by Dept. of History.

Paul C. Young Award (1:varies) Recognizes the most outstanding senior in the Dept. of Psyc.; UG student with a minimum 3.5 overall gpa and 3.5 gpa in psychology; must be graduating senior in summer, fall, or spring semester following application; awarded by the Dept. of Psyc.

COLLEGE OF BASIC SCIENCES

Robert Scott & Louise Pierce Allen Scholarship in Biochemistry

***H. V. Andersen Endowment (1:\$500)** UG major in geology; academic ability; awarded by Dept. of Geol. & Geophysics.

***H. V. Andersen Endowment (1:\$500)** GR major in paleontology; academic ability; awarded by Dept. of Geol. & Geophysics.

***John O. Barry Endowment (1:\$500)** UG major in geol.; academic ability; awarded by Dept. of Geol. & Geophysics.

Harriet Cameron Belchic Memorial Fund (2:\$1250) UG major in geol.; academic ability; financial need; Geol. Field Camp; preference given to women with 3.00 gpa; awarded by the Dept. of Geol. & Geophysics.

British Petroleum (1:\$1,000) UG major in geol.; academic ability; U.S. citizen; awarded by Dept. of Geol. & Geophysics.

British Petroleum (1:\$1,000) GR major in geol.; academic ability; U.S. citizen; awarded by Dept. of Geol. & Geophysics.

Benjamin Pierre Bousat Outstanding Student Award (1:varies) SR majoring in chemistry; awarded by Chemistry Department.

Scott and Susan Brodie Science Honors Scholarship (1:\$2,500) Basic Sciences major, enrolled in Honors College; awarded by Col. of Basic Sci.

Peter Burland Endowed Scholarship (1:\$1,000) SO, JR, SR majoring in chemistry or mathematics; minimum 3.00 gpa; nominated by Col. of Basic Sci.; awarded by Alumni Assoc.

Callaway Memorial Scholarship Fund for Graduate Students in Physics (varies:varies) GR major in physics or astronomy; academic ability; awarded by Dept. of Phys. & Astr.

Ganesh Channugam Memorial Fund for Graduate Students in Physics and Astronomy (1:varies) PhD graduate whose dissertation has been judged as outstanding among all recent graduates; awarded by Dept. of Phys. & Astr.

Chevron Texaco (7:\$1,000) UG or GR major in geol.; academic ability; U.S. citizen; some for field camp; awarded by Dept. of Geol. & Geophysics.

Chevron Texaco Graduate Scholarship (1:\$4,000) GR major in Geol; awarded by Dept. of Geology & Geophysics.

Chevron Undergraduate Scholarship (6:\$1,000) UG major in computer sci.; U.S. citizen or permanent resident; awarded by Col. of Basic Sci.

***A. R. Choppin Scholarship (2:\$1,500)** SO/JR/SR in Col. of Basic Sci.; awarded by Col. of Basic Sci.

***A. R. Choppin American Legion and American Legion Auxiliary Scholarship (2:\$1,000)** UG enrolled or planning to enroll in Col. of Basic Sci.; LA resident; former citizen of LA Boys' or Girls' State; awarded by Col. of Basic Sci.

Johnny Dardenne, Sr. Texas Tiger Tournament Scholarship (2:\$750) UG major in Col. of Basic Sci.; academic ability; awarded by Col. of Basic Sci.

***Monica Donellan Memorial Scholarship (1:varies)** UG major in geol.; financial need; geol. field camp; awarded by Dept. of Geol. & Geophysics.

Betti and Robert Giles Senior Mathematics Award (varies:\$250) For outstanding scholastic performance by SR students majoring in math; awarded by Dept. of Math.

I. H. Gottlieb Memorial Scholarship (1:\$800) UG in chem. or chem. engr.; LA resident; awarded by Col. of Basic Sci. and Dept. of Chem. Engr.

Hach Foundation Chemistry Teaching Scholarship (2:\$6,000) Chemistry major; concentration in secondary teaching; GPA 3.0; awarded by Col. of Basic Sci.

Halliburton Field Camp Scholarship (5:\$2,000) UG geol major; for summer field camp; awarded by Dept. of Geology & Geophysics.

***Billy and Ann Harrison Field Camp Scholarship (1:\$2,000)** UG geology major for use at summer camp; awarded by Dept. Geology & Geophysics.

Dr. Joe Hazel Memorial Student Award (1:\$450) UG geology major; awarded by Dept. of Geology & Geophysics.

Ernie Hill Scholarship in Basic Sciences (1:\$500) UG majoring in Chemistry or Biological Sciences; awarded for academic excellence; U.S. resident; awarded by Col. of Basic Sci.

Leo H. Hough (1:\$1,000) UG full-time, academic ability, financial need, awarded by Dept. of Geol. & Geophysics

Houston Geological Society (1:\$2,500) GR major in geol.; academic ability; U.S. citizen; nominated by Dept. of Geol. & Geophysics; awarded by the Houston Geological Society.

***H. V. Howe Endowment (1:\$500)** UG major in geol.; academic ability; awarded by Dept. of Geol. & Geophysics.

***Dr. & Mrs. Howe Endowment (1:\$500)** GR major in geol.; academic ability; awarded by Dept. of Geol. & Geophysics.

Dr. R. Greg Hussey Scholarship for Excellence in Physics (1:varies) UG major in Physics; selected by Dept. of Physics & Astronomy.

Charles L. Jones Scholarship in Geology & Geophysics (1:\$1,500) UG geology major; academic ability and financial need; awarded by Patrick F. Taylor Foundation on recommendation.

***Keen-Morris Prize (1-3:varies)** Outstanding SR in phys.; awarded by Dept. of Phys. & Astron.

King-Sollberger Scholarship (1:\$1,000) FR in chem with outstanding academic ability; awarded by Col. of Basic Sci.

***Brandon J. Latiolais Memorial Scholarship (1:\$1,000)** SR premedical student in the Dept. of Biol. Sci.; at least 3.5 gpa; awarded by the Col. of Basic Sci.

***Adrian Virginia Lazarus Memorial Scholarship (1:\$1,500)** UG in computer sci.; 3.00 gpa; awarded by Col. of Basic Sci.

Jeff Lewis Pre-Medical Scholarship (1:\$5,000) Basic Sciences major, pursuing entrance to medical school; awarded by Col. of Basic Sci.

Marathon GeoDE Undergraduate Scholarship (varies:varies) UG geology major; academic ability, service, diversity; awarded by Dept. Geology & Geophysics.

Marathon Oil Company Geology Scholarship (2:\$10,000) GR major in geol; awarded by Dept. of Geology & Geophysics.

Marathon Oil Company Geophysics Scholarship (1:\$10,000) GR major in geol; awarded by Dept. of Geology & Geophysics.

Marathon Petroleum Scholarship in Chemistry (2:\$1,250) JR or SO chemistry major; academic ability; preference to residents of River Parishes; awarded by Col. of Basic Sci.

***Andrea Kay Martin Memorial Scholarship (1:varies)** JR or SR major in computer sci.; awarded by Col. of Basic Sci.

***George May Endowment (1:\$2,500)** FR major in geol; academic ability; financial need; awarded by Dept. of Geol. & Geophysics.

***Charles S. McCleskey Memorial Scholarship (4:varies)** Awards to three JR students in microbiology, at least one of whom is a minority; award to one outstanding

graduating SR in microbiology; awarded by Dept. of Biol. Sci.

***John Mestayer Memorial (1:\$500)** JR/SR in geol.; financial need and academic record; geol. field camp; awarded by Dept. of Geol. & Geophysics.

****Mr. & Mrs. W. D. Millican Scholarship (1:\$1,000)** FR major in geol.; financial need; 2.50 gpa; may be renewed for four yrs.; nominated by Dept. of Geol. & Geophysics; awarded by LSU Alumni Association.

Ron and Mary Neal Science Honors Scholarship (1:\$2,500) Basic Sciences major, enrolled in Honors College; awarded by Col. of Basic Sci.

New Orleans Geological Society Jules and Olga Braunstein Memorial (1 SR:\$2,000; 1 JR:\$1,500; 1 SO:\$1,500) Geol. major; academic ability; nominated by Dept. of Geol. & Geophysics; awarded by N.O. Geological Society.

New Orleans Geological Society Lee Meltzer Memorial (1:\$2,000) GR major in geol.; academic ability; nominated by Dept. of Geol. & Geophysics; awarded by N.O. Geological Society.

David Oxley Memorial Graduate Student Teaching Award (2:\$250) Awarded by the Dept. of Math.

Pasquale Porcelli Undergraduate Scholarship (3:\$500) One award for SO students with credit in MATH 1550 and 1552; two awards for JR students with at least 19 hours of mathematics numbered 1550 or above; awarded by Dept. of Math.

William A. Pryor Scholarship in Biological Sciences (1:\$500) UG majoring in Biochemistry; awarded for academic excellence; awarded by Col. of Basic Sci.

William A. Pryor Scholarship for Student Affiliates of the American Chemical Society (1:\$500) UG majoring in Chemistry; member of the Student Affiliate of the American Chemical Society; awarded for academic excellence; awarded by Col. of Basic Sci.

Michael and Cille Ribaud Pre-Medical Scholarship (1:\$5,000) Basic Sciences major, pursuing entrance to medical school; awarded by Col. of Basic Sci.

Dr. A. E. "Sandy" Sandberg Scholarship (1-3:varies) UG major in geol.; academic ability; awarded by the Dept. of Geol. & Geophysics.

Steve Seiden Endowed Scholarship in Computer Science (1:\$500) UG majoring in computer sciences; minimum 3.0

***Laurice Sistrunk Memorial Scholarship (1:\$500)** UG major in geol. or pet. engr.; academic ability; awarded by Dept. of Geol. & Geophysics.

***Major J. S. Slack, Jr. Endowment (1:\$500)** UG major in geol. or pet. engr.; LA resident; academic ability; geol. field camp; awarded by Dept. of Geol. & Geophysics.

***Adam Sturlese Endowment (1:\$500)** JR or SR major in geol.; academic ability; awarded by Dept. of Geol. & Geophysics.

Patrick F. Taylor Scholarship in Chemistry (variable:\$1,500) UG chem or biochem major; academic ability and financial need; awarded by Patrick F. Taylor Foundation on recommendation.

Patrick F. Taylor Scholarship in Geology (varies:\$1,500) UG geology major; academic ability and financial need; awarded by Patrick F. Taylor Foundation on recommendation.

Tiger Athletic Foundation Scholarship (10:\$500) UG in Col. of Basic Sci.; academic ability; awarded by Col. of Basic Sci.

***W. W. Tison Memorial Scholarship (2:\$1,000)** UG majoring or planning to major in chem.; awarded by Col. of Basic Sci.

***Virginia R. Williams Memorial Scholarship (1:\$1,000)** Outstanding female UG in biochem. or chem. or male UG in biochem.; minimum 3.00 gpa; awarded by Col. of Basic Sci.

E. J. OURSO COLLEGE OF BUSINESS

AIPAGIA Educational Foundation (GILSBAR) (1:\$1,000) JR in ISDS, FIN or ACCT interested in the insurance industry.

Arst, Paul, and Ellen Scholarship (1:\$1400) JR/SR in finance or risk insurance; financial need; 3.00 gpa; awarded by Ourso Col. of Bus. Scholarship Committee.

Association of Government Accountants (1:varies) JR or SR interested in governmental accounting; 2.50 gpa; must be U.S. citizen and LA resident; awarded by Ourso Col. of Bus. Scholarship Committee.

ASWA, American Society of Women Accountants Scholarship (1:\$500) Outstanding female UG or GR accounting major; 3.00 gpa; awarded by Dept. of Accounting Scholarship Committee in the spring.

Bank of West Baton Rouge (1:varies) Most active student in Accounting Society; awarded by Ourso Col. of Bus. Adm. Scholarship Committee.

Baton Rouge Chapter of IMA (1:\$500) Finance or accounting major; UG or GR student; 3.00 gpa; member of the LSU student chapter of IMA; cannot be graduating during semester of award; selected by the faculty advisor of the LSU student chapter of IMA.

B.R. Board of Realtor—Ingalls, Frances R. Scholarship (1:\$1,000) JR/SR interested in real estate; LA resident.

Lonnie H. Beatty Scholarship (1:varies) Outstanding SO/JR in Acct.; awarded by Ourso Col. of Bus. Scholarship Committee.

Becker/Conviser Duffy CPA Review Scholarship (1:varies) Outstanding graduating SR in ACCT.; must be in an acct. organization; 3.75 gpa; awarded by Ourso Col. of Bus. Adm. Scholarship Committee.

Hannis T. Bourgeois & Co. (1:varies) JR in ACCT.; outstanding character, leadership, extracurricular activities, and academic achievement; awarded by Ourso Col. of Bus. Adm. Scholarship Committee.

Capital Bank & Trust—Easterly, Embree K. Scholarship (1:\$1,000) Outstanding JR/SR in FIN with desire to enter finance or banking upon graduation; student must be a LA resident with financial need; 3.00 gpa; awarded by Ourso Col. of Bus. Adm. Scholarship Committee.

Capital Bank & Trust—Hamrick Holloway Finance Scholarship (1:varies) JR/SR in FIN or Banking; student must be a LA resident with financial need; 3.00 gpa; awarded by Ourso Col. of Bus. Scholarship Committee.

L.A. Champagne Memorial Scholarship (3:\$1000) SO in ACCT.; 2.70 gpa; financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

Chevron ISDS Scholarships (5:varies) UG student majoring in ISDS; 3.0 gpa; US citizen; awarded by ISDS scholarship committee.

Chow Endowed Scholarship (1:varies) JR/SR in ISDS or ISDS-MIS; 2.50 gpa; awarded by Ourso Col. of Bus. Scholarship Committee.

John L. Davidson Scholarship Fund (1:varies) JR/SR with 3.00 gpa; any major; awarded by Ourso Col. of Bus. Scholarship Committee.

Deloitte & Touche LLP (1:varies) JR in ACCT.; student must have outstanding character, leadership, and academic qualifications; awarded by Ourso Col. of Bus. Scholarship Committee.

Mr. and Mrs. R. Irby Didier, Sr. Endowed Memorial (1:\$250) Outstanding SR in banking; must begin SR year in fall semester; native LA resident with financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

J. Clifford Doiron Scholarship (1:varies) UG in Ourso Col. of Bus.

Tommy Doiron & Jimmy Webb Memorial (4:\$1,000) SO with less than 60 credit hours; 2.50 gpa minimum; financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

Clarence Dunn Accounting Dept. Recognition Awards (1:varies) ACCT majors deserving of special recognition by accounting faculty; awarded by Acct. Dept. Faculty.

El Paso Energy Scholarship (1:\$2,000) JR/SR in accounting; financial need; 3.50 gpa; awarded by the Dept. of Accounting Scholarship Committee.

Ernst & Young LLP (1:varies) Outstanding JR in ACCT. with career interest in public acct.; 3.50 gpa; awarded by Ourso Col. of Bus. Scholarship Committee.

ExxonMobil Scholarship (1:varies) Outstanding GR student in ACCT. intending to make college teaching a career.

David H. Garland Memorial Scholarship (1:varies) UG student displaying leadership, academic ability, and citizenship; LA resident; 3.00 gpa; awarded by Ourso Col. of Bus. Scholarship Committee.

Lewis Gottlieb Memorial Scholarship (1:\$2500) Second-year GR student candidate for MS in finance or MBA with concentration in finance; awarded by Ourso Col. of Bus. Scholarship Committee.

Halliburton Energy Services Accounting Graduate Scholarships (1:\$2500) GR student in ACCT. or MBA student with UG in ACCT.; financial need; awarded by Ourso Col. of Bus. Scholarship Committee in the fall.

Halliburton Energy Services Accounting Scholarships (7:\$500) UG student in ACCT.; financial need; awarded in spring by Ourso Col. of Bus. Scholarship Committee.

Halliburton Energy Services Accounting Scholarships (3:\$500) UG student in ACCT.; financial need; awarded in spring by Ourso Col. of Bus. Scholarship Committee.

Hawthorn, Waymouth, and Carroll Scholarship (1:varies) SR in ACCT.; ability to succeed in public accounting with local practitioner; awarded by Ourso Col. of Bus. Scholarship Committee.

Paul and Theresa Hendershot Scholarship (1:\$550) SR in MKT; scholastic achievement; financial need; 3.00 gpa; awarded by Ourso Col. of Bus. Scholarship Committee.

Mack H. Hornbeak Scholarship (1:\$850) UG or GR student in Gen. Bus. or banking and finance; financial need;

3.00 gpa; awarded by Ourso Col. of Bus. Scholarship Committee.

IIA-Baton Rouge Chapter (1:\$300) Outstanding GR student in Internal Auditing; 3.00 gpa; awarded by Ourso Col. of Bus. Admin Scholarship Committee.

IMA Baton Rouge Chapter Scholarship (1:\$500) Member of LSU student chapter of IMA; 3.00 gpa; majoring in acct or fin.; awarded by Ourso Col. of Bus. Scholarship Committee.

Josh and Florence Kantrow Memorial Scholarship (1:\$500) MBA student with strong academic performance and gpa; financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

Allison R. Kolb Memorial Award (1:\$1000) Outstanding JR/SR in banking or finance; financial need; 3.00 gpa; awarded by Ourso Col. of Bus. Scholarship Committee.

KPMG Peat Marwick LLP (1:varies) UG with highest average in basic auditing; awarded by Ourso Col. of Bus. Scholarship Committee.

Barry S. Leithhead Internal Audit Award (1:\$300) International student, who has demonstrated the commitment to the internal auditing profession; 3.00 gpa; awarded by Ourso Col. of Bus. Scholarship Committee.

Russell Lobdell Memorial Scholarship (varies:varies) SO with outstanding academic qualifications, financial need, and demonstrated qualities of leadership; 3.00 gpa; graduate of a Baton Rouge high school; awarded by Ourso Col. of Bus. Scholarship Committee.

Roger McDaniel Leadership Award (1:\$300) UG in Internal Auditing demonstrating outstanding leadership; 3.00 gpa; awarded by Ourso Col. of Bus. Scholarship Committee.

Herbert Huey McElveen M.B.A. Scholarship (1:varies) MBA student. Awarded by Ourso Ourso Col. of Bus. Scholarship Committee.

Justine Mendelsohn Fund (1:\$500) UG student with financial need; preference given to female student; 2.50 gpa; awarded by Ourso Col. of Bus. Scholarship Committee.

Lloyd F. Morrison Scholarship (1:varies) GR teaching assistant who has excelled in teaching; awarded by Ourso Col. of Bus. Scholarship Committee.

Glen H. Olds, Jr. Endowed Scholarship (3:waries) MBA with concentration in ISDS or MS in ISDS; 3.00 gpa; awarded by Ourso Col. of Bus. Scholarship Committee.

Glen H. Olds, Jr. Scholarship (2:\$2,000) Full-time GR in ISDS; 3.00 gpa; awarded by the Ourso Col. of Bus. Scholarship Committee.

Ourso Family Scholarships (varies:\$2,500) Outstanding first year MBA student; UG gpa 3.20 or better; GMAT 600 or better.

James H. Owen Scholarship (varies:varies) UG ACCT student who promises to attain the high personal and professional standards of Dr. Owen; awarded by Ourso Col. of Bus. Scholarship Committee.

Charlotte Murray Pace Memorial MBA Scholarship (1:varies) Second year Flores M.B.A. student; preference given to female; from Mississippi and/or attended Millsaps College, and/or participated in soccer at the collegiate level, and/or majored in accounting; awarded by the Ourso Col. of Bus. Scholarship Committee.

Reymond Holmes Pope Scholarship (varies:\$1000) JR in Bus. Adm.; 3.00 gpa; LA resident; awarded by LSU Foundation Scholarship Committee.

Postlethwaite & Netterville, CPAs, Auditing Award (1:varies) JR/SR in accounting with outstanding ability in auditing; awarded by the Dept. of Accounting Scholarship Committee.

Postlethwaite & Netterville, CPAs, Tax Award (1:varies) JR/SR in ACCT with outstanding ability in taxation; awarded by Ourso Col. of Bus. Scholarship Committee.

Price Waterhouse LLP (1:varies) Outstanding JR in ACCT; awarded by Ourso Col. of Bus. Scholarship Committee.

R. T. Reckling Memorial Scholarship (1:\$700) JR majoring in IITF; leadership and citizenship qualities; LA resident with financial need; 3.00 gpa; awarded by Ourso Col. of Bus. Scholarship Committee.

Colleen Reed Opportunity Scholarship (1:\$300) UG in LSUIAPS exemplifying "progress through sharing;" awarded by Ourso Col. of Bus. Scholarship Committee.

Richard Roy Memorial Scholarship (1:\$300) Outstanding UG student in Internal Auditing Program; 3.00 gpa; leadership; profession in Internal Auditing; awarded by Ourso Col. of Bus. Scholarship Committee.

Shell Oil Department Grant (2:\$500) SO/JR/SR majoring in ISDS; U.S. citizen or permanent resident; 3.00 gpa; awarded by Ourso Col. of Bus. Scholarship Committee.

Jerry Singleton Award (1:\$300) Full-time UG or GR majoring in internal auditing with integrity and

commitment to profession; awarded by the Ourso Col. of Bus. Scholarship Committee.

SLCPA—Baton Rouge Chapter (varies) SO planning to major in ACCT.; outstanding GR student in ACCT; awarded by Ourso Col. of Bus. Scholarship Committee.

Russell L. Sledge Scholarship (4:\$2,500) Outstanding MBA students in the Ourso Col. of Bus. with financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

SSA Consultants, Inc. Scholarship (2:\$500, fall & spring) SO/JR/SR with 3.00 gpa and financial need; any major in the Ourso Col. of Bus.; awarded by Ourso Col. of Bus. Scholarship Committee.

Kitty B. Strain Scholarship (1:varies) JR/SR female student in the Ourso Col. of Bus.; 3.0 gpa.

E. J. Thomas + R. P. Courtney Leadership Scholarship (1:varies) SO with financial need; gpa of 3.00 or better; leadership responsibility in high school and citizenship; from one of the following high schools: Holy Savior Catholic H.S., Alexandria; Robert E. Lee H.S., B.R.; Redemptorist H.S., B.R.; or Catholic H.S., B.R.

Tiger Athletic Foundation Award (4:\$1000) UG student highly qualified based on leadership and scholarship; awarded by Ourso Col. of Bus. Scholarship Committee.

Travis Varner Memorial (1:varies) Non-graduating JR/SR majoring in ISDS; 3.00 gpa; member of AITP; leadership; citizenship; financial need.

W. Leroy Ward, Sr. Memorial Scholarship (1:\$700) UG in finance or banking; min 3.00 gpa; financial need; graduate of EBR parish high school; resident of EBR parish or surrounding parishes.

COLLEGE OF EDUCATION

All scholarships require students to maintain full-time status.

Gary E. Albright Scholarship in Kinesiology Full-time UG in Kinesiology; 2.7 gpa.

Paul and Ellen Arst Scholarship GR in curriculum & instruction, Col. of Educ., pursuing special education certification; 3.00 gpa; financial need.

Association of Classroom Teacher Fellowship CR in Col. of Educ. pursuing master's or doctoral degree; LA classroom teacher.

Barnidge-Texas Tiger Endowed Scholarship SO/JR/SR in Col. of Educ. with at least 3.00 high school gpa and 26 minimum on ACT/SAT equivalent; 3.00 LSU gpa semester/cumulative.

Marietta Boon Endowment Scholarship SR in Col. of Educ.; financial need; 3.00 gpa.

***Association of Classroom Teachers of East Baton Rouge Parish Endowed Scholarship** JR/SR in educ.; graduate of EBR public high school; 3.00 gpa.

Kathleen G. Clements Memorial Scholarship SO/JR/SR in Col. of Educ. with at least 3.00 gpa; financial need; graduate of public high school in Ascension, E.B.R., or Livingston parishes; awarded by Col. of Educ. and Alpha Delta Kappa.

William Rodney Cline Philosophy of Education Scholarship GR in Col. of Educ.; UG degree from LA university or college.

Jinks Coleman Memorial Scholarship full-time JR/SR in physical education; 3.00 gpa; preference to female; consideration to financial need, service, and commitment to daily quality physical education in schools.

Robert and Irene Cosgrove Scholarship in Kinesiology Full-time student in kinesiology; 3.00 gpa; financial need considered.

Imogene & Thomas P. Dutsch Memorial Scholarship GR in Col. of Educ.; master's level student pursuing initial certification as a teacher in LA.

College of Education General Scholarship Full-time UG in Col. of Educ.; 3.00 gpa; financial need considered.

Julia Kate Gerald Memorial Endowed Alumni Scholarship Full-time UG in early childhood education; 24 ACT; 3.00 gpa.

Cecilia B. Hall Scholarship in Education Full-time UG in teacher education; student teaching semester; graduate of St. Tammany Parish public schools; preference to female.

Dana Hopkins Memorial Scholarship Full-time UG in math and/or science education; 3.00 gpa.

Nancy Ruth Johnson Scholarship GR in Col. of Educ.; art education; cumulative 3.00 gpa.

Shirley Thomasee Johnson Memorial Scholarship SO/JR/SR in Col. of Educ. with at least a 3.00 gpa.

Albert H. LeBlanc Endowed Fellowship GR in Col. of Educ. seeking initial certification in English education or English major seeking Col. of Educ. graduate degree; 3.00 gpa; resident of and willing to teach in LA.

Clyde L. Madden Memorial Endowment Full-time student in Col. of Educ.; financial need.

Ida Major Scholarship UG or GR student enrolled in the Col. of Educ. or teacher preparation program; 3.00 gpa.

McCullister Leadership Award Full-time UG in Col. of Educ.; 2.8 gpa.

Dr. Guy C. Mitchell Education Scholarship SO/JR in Col. of Educ.; 3.00 gpa; LA student with true financial need; recipient can receive scholarship for two academic years; awarded by Col. of Educ.

Robert E. and Earleen Dryer Nolan Scholarship in the Col. of Educ. SR in Col. of Educ. with at least a 3.00 gpa; recipient can only receive once; awarded by Col. of Educ.

Etta Obier Alumni Scholarship Incoming FR with declared major in education/teaching field; preference to student from New Orleans area; 24 ACT; full-time student; 3.00 gpa.

Lillian Oleson Scholarship Full-time GR student in good standing in Col. of Educ.

Gerry Owens Scholarship in Kinesiology Full-time UG in kinesiology; 3.00 gpa; financial need considered.

Katherine Evans Pope Scholarship Full-time GR in Col. of Educ. seeking initial certification (Holmes Program); 3.00 gpa.

Premier Scholars of Kinesiology Full-time UG in kinesiology; 3.00 gpa; involvement in community service preferred.

Harry Rabenhorst Scholarship Full-time UG in physical education, coaching, or athletic administration; 3.00 gpa; Louisiana native; preference to native of East Baton Rouge Parish.

Dean E. B. Robert Scholarship Full-time advanced GR student in good standing in Col. of Educ.

Fred G. Thatcher Fellowship Full-time GR student pursuing EdS or PhD in administration or supervision; valid LA teaching certificate and five years teaching experience.

Tiger Athletic Foundation Scholarship Full-time UG in good standing in Col. of Educ.

COLLEGE OF ENGINEERING

Note: All scholarships/awards are based on availability of funds.

□ Denotes one-time, non-renewable scholarships/awards.

Awards

American Institute of Chemists Award (1:certificate) UG in chem. engr. with outstanding leadership ability, character, and scholarship.

C. Carter Brown Book Award (varies:varies) FT; JR/SR in civil engr.; 3.00 gpa; financial need; awarded by Dept. of Civil & Envr. Engr.

Cajun Constructors Award for Diversity in Construction Management Full-time UG as a declared constr. Mgmt. major; preference given to minority students; financial need considered; awarded by CMIE dept.

Chemical Engineering Junior Award (varies:\$100) JR in chem. engr. with highest gpa at end of yr.; awarded by Dept. of Chem. Engr.

Michael A. Clause Memorial Fund Award (1:varies) UG in civil engr.

***Donald W. Clayton Engineering Excellence Awards-Undergraduate (varies:varies)** FT; UG; completed at least one year residence in Col of Engr.; U.S. citizen or perm. resident; good academic record and desire to enroll in engr. graduate program at LSU.

***Donald W. Clayton Engineering Excellence Awards-Graduate (varies:varies)** FT; GR; U.S. citizen or perm. resident; desire to enter teaching profession in engr.; demonstrate scholarly accomplishment

(publications/presentations at professional meetings); completed at least one year residence in Col. of Engr.

Dow Outstanding Junior Award (1:\$1,000) JR in chem. engr.; scholarship, activities, professionalism; awarded by Dept. of Chem. Engr.

Gautreaux Award (1:\$100) FT; UG; JR with highest gpa; awarded by Dept. of Chem. Engr.

□Paul M. Horton Award (1:\$500) Outstanding LSU chem. engr. graduate who enters LSU Graduate School.

Edward McLaughlin Medal for Excellence (varies:varies/medal) FT; UG; Awarded to the graduating engineering student with the highest overall gpa for his/her college work. Ties permitted.

Plant Design Project Award (varies:varies) FT; UG; participants of Plant Design Project Contest; awarded by Dept. of Chem. Engr.

Norbert Rillieux Award (1:\$250 and Plaque) Outstanding African American graduate in engr.

Fellowships

William A. Brookshire Distinguished Fellowship in Chemical Engineering (varies:varies) FT; GR; doctoral student in ChE, 3.5 gpa, U.S. citizen, preference to students who have demonstrated scholarship accomplishment, strong leadership skills, shown integrity and exemplary character, indicated a career preference for the private sector in the process industries, and would be a good ambassador for the College and the state of Louisiana.

Gordon and Mary Cain Fellowship (varies:varies) FT; GR in chem. engr.; overall 3.30 gpa; 3.50 gpa in chem. engr.; financial need; awarded by Dept. of Chem. Engr.

Chevron Engineering Post-Doctoral and Graduate Student Fellowship Fund (varies:varies) FT; GR; doctoral and post-doctoral fellowships in Engineering awarded to students with substantiated research interest in the oil and gas industry; second preference to students from under-represented groups, inc. African Americans, Hispanic Americans, and women.

College of Engineering Endowed Alumni Fellowship (varies:varies) FT; GR in engr.; American citizen; 3.50 gpa; one yr. award; financial need; awarded by Col. of Engr.

Mark and Carolyn Campbell Guidry Doctoral Fellowship (1:\$22,500) FT; GR; doctoral student admitted to or enrolled in ECE.

IBM Grad Fellowship Scholar (1-2: varies) FT; GR; eligibility requires BS degree in engineering or equivalent, enrolled in graduate program in the College of Engineering or in the MBA Program in the College of Business Administration; minorities and/or women will be given preference.

George A. Khoury, Jr. Graduate Fellowship in Engineering Excellence (1:\$30,000) FT; GR; doctoral student admitted to or enrolled in PETE.

James Lewis Electrical Engineering Fellowship (varies:varies) GR in elect. engr.

James R. Lewis Grad Study Fund in EE (varies:varies) FT; GR; for master's or doctoral student, ECE major, 3.0 gpa.

Marathon Engineering Diversity Graduate Fellowships (2:\$35,000) FT; GR; doctoral candidates seeking degrees in ChE, ME, EE, CE, or PETE. Consideration will be given to all academic and nonacademic strengths and achievements, as well as the ways a contender may contribute to a diverse educational environment.

Marathon Engineering Diversity Ph.D. Fellowship (varies:varies) FT; Ph.D. track GR in engr.; preference given to under-represented students; U.S. citizen; academic excellence; awarded by CoE Diversity Programs.

Charles E. Severance Endowed Fellowship Full-time GR in biol. and agr. engr.; US citizen; financial need and 4-H exp. preferred; awarded by Dept. of Biol & Agr. Engr.

Jimmy Stone Graduate Fellowship in Engineering Excellence (1:\$30,000) FT; GR; doctoral student in PETE, 3.0 gpa, U.S. citizen or permanent resident.

Jayanti and Suresh Rai Fellowship (varies:varies) FT; GR in elec. or comp. engr.; preference to females of East Indian origin in elec. or comp. engr.

Freshman Scholarships

ExxonMobil Diversity in Engineering Scholarship (varies:varies) FT; UG in engr.; 3.00 gpa; academic ability; top 25 percent of high school class; 26 ACT; awarded by Col. of Engr.

Boykin and Mable Pegues Scholarship (40:\$500) FR in engr.; awarded by Col. of Engr.

Other Scholarships

Yalcin B. Acar Memorial Scholarship (1:varies) UG in civil engr.; 3.00 gpa; awarded by Dept. of Civil & Envr. Engr.

Ned Adler Memorial Full-time 75 credit hours earned; 2.5 gpa; declared mech. engr. major; financial need considered; awarded by Dept. of Mechanical Engineering.

W. R. Aldrich Scholarship (varies:varies) UG in engr.; graduate of LA high school; need and academic achievement; awarded by Col. of Engr.

Amerada Hess Foundation (varies: \$1,250) Full-time JR in pet. engr.; awarded by Dept. of Pet. Engr.

American Association of Drilling Engineers Scholarship (varies:varies) Full-time UG I pet. engr.; interest in drilling engineering; 2.50 gpa; financial need; U.S. citizen; 24 credit hrs. earned; awarded by Dept. of Pet. Engr.

Anadarko Petroleum Corp School Full-time JR/SR in pet. engr.

Henry and Nordine Arnaud Scholarship in Petroleum Engineering (varies:varies) Full-time UG in pet. engr.; JR or SR with 2.70 gpa; financial need; employed part-time for 10 hrs. minimum; resident of one of the following parishes: Acadia; Avoyelles; Calcasieu, Cameron, Evangeline, Jefferson Davis, Iberia, Lafayette, Lafourche, St. Landry, St. Martin, St. Mary, Terrebonne, or Vermillion.

Asphalt Products Unlimited Full-time SO, JR, SR in civil engr. or const. mgmt; Hot Asphalt Technology course required; awarded by Dept. of Civil Engr.

Associated General Contractors of Louisiana, Inc. (varies: \$500/yr.) SO in const. mgmt.; selection based on need and association with construction industry; awarded by Dept. of Const. Mgt.

ASSCT Undergraduate Sugar Processing Scholarship (varies:varies) Full-time UG; 2.75 gpa; BAE, ChE, ECE, ME, pref. sugar cane producing parishes: Acadia, Allen, Ascension, Assumption, Avoyelles, Calcasieu, Cameron, East Baton Rouge, Evangeline, Iberia, Iberville, Jefferson Davis, Lafayette, Lafourche, Pointe Coupee, St. Charles, Rapides, St. James, St. John, St. Landry, St. Martin, St. Mary, Terrebonne, Vermillion, or West Baton Rouge; awarded by Col. of Engr.

Atlas Power Scholarship (varies:varies) Full-time UG in engr.; 2.80 gpa; awarded by Col. of Engr.

Gail Robinson Wilbur Baker Full-time sophomore female; 3.0 gpa; U.S. citizen; campus involvement considered; awarded by Col. of Engr.

Baker Hughes Endowed Scholarship Full-time UG in engr.; 3.0 gpa; financial need considered; preference to dependents or employees of Baker Hughes or affiliated companies.

BASF Corporation Engineering Scholarship (1:\$1,200) UG in engr.; 3.00 gpa; awarded by Col. of Engr.

Harold T. Barr Memorial Scholarship UG in biol. engr.; 3.0 gpa and financial need; awarded by Dept. of Biol. & Agr. Engr.

Zaki A. Bassiouni Endowed Scholarship (varies:varies) Full-time UG in pet. engr.; financial need; academic merit; awarded by Dept. of Pet. Engr.

Richard L. Bengston Endowed Scholarship in Biological Engineering Full-time UG in biol. Engr.; overall gpa 3.0; financial need, and a US citizen; awarded by Dept. of Biol. & Agr. Engr.

Rham N. Bhatia Scholarship in Chemical Engineering Full-time UG in chem. engr.; overall gpa 3.0; special consideration to citizens of India; awarded by Dept. of Chem. Engr.

Board of Regents (varies:varies) FT; GR in engr.; 3.50 gpa; minimum 1200 GRE score

Bourgeois and Associates, Inc. Scholarship (1:\$1,200) FT; UG; incoming freshman preferred

(freshman-through-senior eligible) pursuing occupational health & safety IAT curriculum, Louisiana resident, 2.75 gpa upon high school graduation, and 21 ACT composite score. Preference given to students from LaFourche, Assumption, Terrebonne, and St. Mary parishes.

Adam T. Bourgoyne Construction Management Scholarship Excellence Fund (varies:varies) FT; UG; junior or senior CM major, 3.0 gpa or better and be in top 10 in his/her class year, recipient must have demonstrated high ethics.

Ted Bourgoyne Endowed Scholarship (varies:varies) Full-time UG in pet. engr.; academic merit; financial need; awarded by Dept. of Pet. Engr.

BP America Inc. Endowed Scholarship (varies:varies) Full-time UG in pet. engr.; awarded by Dept. of Pet. Engr.

BP America Scholarship (varies:varies) Full-time UG in chem. engr.; awarded by Dept. of Chem. Engr.

BP Minority Petroleum Engineering Scholarship Fund (varies:varies) FT; UG; U.S. citizen/perm. res., sophomore year, enrolled in ChE, ME, or PETE. First preference shall be given to minority students. At least 3.0 gpa for all college-level work, be active in extra-curricular organizations (school and/or community) with leadership roles, and not receive other similar corporate financial aid tied to summer employment. Financial need may be a consideration.

John B. Brock, III Endowed Scholarship (varies:varies) Full-time UG in pet. engr.; awarded by Dept. of Pet. Engr.

Leo Broering Memorial Scholarship in Chemical Engineering Full-time UG in chem. engr.; overall gpa 3.2; financial need considered; special consideration to interns at Shell's Geismar, LA plant; awarded by the Dept. of Chem. Engr.

William H. and Barbara A. Brown Scholarship in Biological and Agricultural Engineering Full-time UG or half-time GS; 3.0 gpa on all college work; demonstrated excellence in engineering design or research; special consideration shall be given to a student who has participated in an engr. internship program; awarded by the Dept. of Biol. & Agr. Engr.

Robert G. Bryan Scholarship (varies:varies) UG in pet. engr.; awarded by Dept. of Pet. Engr.

Ben Burns Student Fund (varies) For SR student projects and/or scholarships in the Dept. of Mech. Engr.; awarded by Dept. of Mech. Engr.

Cajun Constructors Award for Diversity in Construction Management Full-time UG as a declared constr. mgmt. major; preference given to minority students; financial need considered; awarded by CMIE dept.

Joseph W. Carmena, Sr. Memorial Scholarship Full-time UG in civil or envr. engr.; 3.2 gpa; financial need considered; preference given to a student from a rural area in LA; awarded by CEE dept.

Charles M. Carraway and Joanne M. Carraway Scholarship Full-time UG in pet. engr.; 3.0 gpa; financial need considered.

Celanese Chemicals Chemical Engineering Scholarship Fund (varies: \$500) FT; UG; ChE sophomore or junior, 3.0 gpa, U.S. citizen or full-time resident, member of one or more professional associations, and has interest in considering Celanese Chemicals as an employer upon graduation.

Alden J. and Barbara S. Chauvin Scholarship Full-time UG in elec. and comp. engr.; 3.0 gpa; financial need considered; must have been born in Louisiana or have at least one parent born in LA; preference given to student expressing interest in "alternative energy solution" career; awarded by ECE dept.

Chemical Engineering Scholarship Fund (varies:varies) FT; UG; JR or SR, 3.0 gpa, U.S. citizen or perm. resident.

Chevron Texaco Company Scholarships in Chemical Engineering (varies:\$1,000) UG in chem. engr.; awarded by Dept. of Chem. Engr.

Chevron Texaco Scholarship Fund in Mechanical Engineering (varies:varies) FT; UG; ME major (junior or senior), gpa 3.0 or better, preference given to students whose enrollment and leadership promote diversity should also be considered.

Chevron Texaco Scholarship in Electrical Engineering Full-time UG in elec. engr.; 3.0 gpa; preference to upperclassmen who promote leadership and diversity.

Chevron Texaco Company Scholarships in Petroleum Engineering (varies:varies) UG in pet. engr.; U.S. citizen or permanent immigration visa; awarded by Dept. of Pet. Engr.

Chevron Texaco Scholarship in Civil Engineering (varies:\$1000) FT; UG in civ. engr.; 3.00 gpa; must exhibit leadership

Class of Late 1970s Alumni Scholarship (varies:varies) Full-time UG in pet. engr.; awarded by Dept. of Pet. Engr.

Jesse Coates Award (1:varies) UG in chem. engr. who shows most outstanding leadership.

COE Alumni Scholarship (varies:varies) UG in engr.; awarded by the Col. of Engr.

Conoco Phillips Undergraduate Scholarship in Chemical Engineering (varies:varies) Full-time UG in chem. engr.; awarded by Dept. of Chem. Engr.

Construction Industry Advancement Fund of Lafayette and Vicinity Scholarship (2:\$500) FT; UG; CM major, SO/JR/SR, resident of Acadia, Evangeline, Iberia, Lafayette, St. Landry, St. Martin, St. Mary, or Vermilion parish. Selection based on scholarship, need, and association with the construction industry.

Construction Management Miscellaneous Donors Scholarship (varies:\$500) FT; UG in constr. man.; 3.00 gpa.

Stanley M. and Hilma R. Cothren Scholarship Full-time UG in civil or envr. engr.; 3.2 gpa; financial need may be considered; awarded by CEE dept.

B. C. Craft Memorial Foundation Scholarship (varies:varies) UG in pet. engr.; awarded by Dept. of Pet. Engr.

Craft & Hawkins Endowed Scholarship (varies:varies) Full-time UG in pet. engr.; awarded by Dept. of Pet. Engr.

Devon Energy Corporation Petroleum Engineering Scholarship Full-time UG with declared major in petr. engr.; 3.0 gpa; must be a citizen or permanent resident of U.S.; awarded by Dept. of Pet. Engr.

William H. and Tanya B. Ditto Scholarship (varies:varies) UG in elec. engr.; 3.00 gpa; awarded by Dept. of Elec. Engr.

Gene and Sylvia Duke Family Endowed Scholarship Full-time UG in civil, industrial, mechanical or petroleum engineering; preference to high school graduates from Istrouma Senior High School (Baton Rouge), Belaire Senior High School (Baton Rouge), or Denham Springs Senior High School (Denham Springs); natives of Baton Rouge, or those who have a family heritage in Baton Rouge; awarded by Col. of Engr.

O. Dewitt Duncan Scholarship (varies:varies) Full-time UG in chem. engr. with 2.50 gpa; awarded by the Dept. of Chem. Engr.

Dupont Chemical Scholarship (varies:\$1500) FT; SO/JR in mech. engr. with outstanding leadership; 3.00 gpa.

Floyd S. Edmiston, Jr. Scholarship (varies:varies) Full-time UG in chem. engr.; 3.00 gpa; financial need; awarded by Dept. of Chem. Engr.

ENG^2 Scholars for Success (varies:varies) FT; SO/JR/SR in engr.; 2.75 gpa; financial need; academic ability & leadership; awarded by CoE Diversity Programs.

Earl and Maryanne Evans Engineering Scholarship (1:varies) FT; female UG in engr.; LA resident; financial need; awarded by CoE Diversity Programs.

Exxon Mobil Diversity in Engineering Scholarship (varies:varies) FT; UG in engr.; 3.00 gpa; academic ability; top 25 percent of high school class; 26 ACT; awarded by Col of Engr.

Falcon Family Endowed Scholarship (varies:varies) Full-time UG in pet. engr.; awarded by Dept. of Pet. Engr.

***Ashton and Brent Fenet Scholarship (varies:varies)** Full-time UG; asphalt technology in civil engr.; awarded by Dept. of Civil & Envr. Engr.

Robert G. Flory Scholarship Fund (varies:varies) Full-time SO/JR/SR in elec. engr.; 3.00 gpa; U.S. citizen; LA resident of Acadia, Lafayette, or Vermillion Parish; awarded by Dept. of Elec. Engr.

Vincent Forte Graduate Fellowship (1:\$2000) GR in engr.

Don Ray George Scholarship (varies:varies) Full-time UG/GR in pet. engr.; awarded by Dept. of Pet. Engr.

Gerard Family Undergraduate Scholarship in Chemical Engineering (varies:\$1,000) UG in chem. engr.; LA resident; awarded by Dept. of Chem. Engr.

Karl German Memorial Scholarship (varies:varies) Full-time UG in mech. engr.; enrolled in Col. of Engr.; 2.95 gpa; awarded by Dept. of Mech. Engr.

Frank J. Germano Memorial Scholarship (varies:\$1,000) SO/JR/SR in civil engr.; financial need; awarded by Dept. of Civil & Envr. Engr.

Henry Gilbert Scholarship (varies:varies) UG/GR in pet. engr.; preferably from New York area; awarded by Dept. of Pet. Engr.

Michael G. Glassell Memorial Scholarship Fund (3:\$1,000) UG in civil engr.; awarded by Dept. of Civil & Envr. Engr., Interfraternity Athletic Council president, and SAE president.

Clara and Frank Groves, Sr. Scholarship (1:\$1,200) UG in chem. engr.; awarded by Dept. of Chem. Engr.

Gulf South Compression Conf Scholarship-Supplement (varies:varies) U.S. citizen, need-based, FT UG in one of the following fields of engineering: ChE, CE, ECE, IE ME, or PETE, another consideration is participation in activities that develop leadership, responsibility, and citizenship.

R. L. Hartman Scholarship (1:\$1,000) JR in chem. engr.; 3.00 gpa; financial need; native Louisianian; awarded by Dept. of Chem. Engr.

Murray F. Hawkins, Jr. & William R. Holden Achievement Scholarship (varies:varies) Full-time UG in pet. engr.; 3.00 gpa; awarded by Dept. of Pet. Engr.

Murphy J. Hebert Family Scholarship in Petroleum Engineering Full-time UG in petroleum engineering; 3.0 gpa; financial need may be considered; first preference given to Louisiana citizens and U.S. citizens; second preference given to U.S. citizens who have a LSU alumnus parent or grandparent; third consideration to a student in mechanical engineering with interest in petroleum industry; awarded by PETE dept.

Bill Hise Endowed Scholarship (varies:varies) Full-time UG in pet. engr.; awarded by Dept. of Pet. Engr.

Bill Holden/NACME Endowed Scholarship (varies:varies) Full-time UG in pet. engr.; 2.50 gpa; preference for minorities; Louisiana residents; NACME participants; awarded by Dept. of Pet. Engr.

***Home Builders Association Ladies Auxiliary Scholarship in Construction (2:\$320)** Entering FR in const. mgt.; graduate of LA high school; awarded by the sponsor.

Paul M. Horton Memorial Undergraduate Scholarship (varies:\$500) UG in chem. engr.; 3.50 gpa; financial need; awarded by Dept. of Chem. Engr.

Houston-LSU Alumni Scholarship (varies:varies) Full-time UG in Col. of Engr. with ACT of 27; Houston area residents given precedence; awarded by the Col. of Engr.

Paul N. Howell Endowed Scholarship (varies:varies) Full-time UG in chem. engr.; 3.00 gpa; financial need; awarded by Dept. of Chem. Engr.

IGERT Fellowship (varies:\$12,500) GR in engr.

Industrial Engineering Sustaining Scholarship (varies:varies) UG in ind. engr.; awarded by Dept. of Ind. & Manf. Systems Engr.

Industrial Technology Club Scholarship (1:\$1,000) FT; UG; junior or senior CM or Industrial Technology major. Financial need considered.

Montez Juneau Endowed Scholarship (varies:varies) Full-time UG in pet. engr.; 2.50 gpa; awarded by Dept. of Pet. Engr.

Kaiser Aluminum Scholarship (varies:varies) Full-time; preference for minorities; awarded by Col. of Engr.

David Kamolsiri Memorial Scholarship Full-time UG in pet. engr.; 3.0 gpa; financial need considered; awarded by Dept. of Pet. Engr.

Ray Kazmann Memorial Scholarship Fund (varies:varies) FT; UG; CEE major, 2.7 gpa, need may be a consideration.

Oscar K. Kimbler Scholarship (varies:varies) Full-time UG in pet. engr.; awarded by the Dept. of Pet. Engr.

Joseph A. Kleinpeter Endowed Scholarship (varies:varies) Full-time UG in chem. engr.; 3.00 gpa; financial need; selected by Dean; awarded by the Col. of Engr.

H. Markham Krause, Sr. Endowed Scholarship (varies:varies) Full-time UG in pet. engr.; awarded by Dept. of Pet. Engr.

Tracy W. Krohn—Family Endowed Scholarship (varies:varies) Full-time UG in pet. engr.; financial need; academic merit; awarded by Dept. of Pet. Engr.

Erin Krielow Lahr Memorial Scholarship (varies:varies) FT; UG; JR or SR, CEE major, 3.0 gpa, priority to female students, financial need may be a consideration.

LAMP Phase III Award (varies:varies) FT; FR; 2.00 gpa

Albert Pierre Levy Scholarship (1:varies) UG in mech. engr.; financial need; LA resident; awarded by Dept. of Mech. Engr.

LA Space Fellowship (2:varies) FT or PT; GR in mech. engr.

Louisiana Asphalt Pavement Association Full-time SO, JR, SR in civil engr. or const. mgmt.; Hot Asphalt Technology course required; awarded by Dept. of Civil Engr.

***Louisiana Engineering Societies Auxiliary (Baton Rouge Chapter) Award (2:\$1,000)** UG in engineering; based on need and academic promise; awarded by Col. of Engr.

***Louisiana Engineering Society Auxiliary (New Orleans Chapter)—Samuel McCain Young Scholarship (1:\$1,000)** UG in civil engr. from N. O. area; awarded by Col. of Engr.

***Louisiana Engineering Society, Baton Rouge Chapter Scholarship (1:\$500)** UG in engr.; need and academic promise; awarded jointly by Col. of Engr. and LES-BR.

Marathon Engineering Diversity Undergraduate Scholarship (varies:\$5000) FT; SO/JR/SR; in engr.; 3.0 gpa & academic excellence; awarded by CoE Diversity Programs.

Marathon Mechanical Engineering Undergraduate Scholarship Fund (varies: \$1,250) FT; UG; ME major (sophomore, junior, or senior), gpa 3.5 or better, preference given to students from St. John, St. James, and St. Charles parishes, when possible.

Marathon Oil Foundation Minority Scholarship (varies:\$1250) FT or PT; SO/JR/SR; in chem. or mech. engr.

Marathon Oil Undergraduate Minority Engineering Program Scholarship Fund (5:varies) FT; UG; UG seeking degrees in ChE, ME, EE, CE, or PETE. Consideration will be given to all academic and nonacademic strengths and achievements, as well as the ways a contender may contribute to a diverse educational environment. Preference given to first-generation college students and/or those who demonstrate financial need.

***Marathon Scholarship in Chemical Engineering (varies:varies)** UG in chem. engr.; awarded by Dept. of Chem. Engr.

***Marathon Oil Company Scholarship in Petroleum Engineering (varies:varies)** UG in pet. engr.; awarded by Dept. of Pet. Engr.

***Mansel M. Mayeux Honorary Scholarship** UG in biol. engr.; 2.5 gpa, financial need and US citizen; awarded by Dept. of Biol. & Agr. Engr.

Shirley Mayhall Memorial Scholarship (varies:varies) UG in chem. engr.; financial need; academic ability; awarded by Dept. of Chem. Engr.

***McDermott Corporation Scholarship (3:\$1,000)** JR/SR in civil engr.; awarded by Dept. of Civil & Envr. Engr.

William McFatter Scholarship (varies:varies) Full-time UG in chem. engr.; awarded by the Dept. of Chem. Engr.

Mechanical Engineering Award (varies:\$500) FT; UG in good standing; U.S. citizen.

Walter Middleton, Jr. Endowed Scholarship (varies:varies) Full-time UG; preference to ChE major; financial need; awarded by Dept. of Chem. Engr.

***Charles E. Milner Scholarship (varies:varies)** Full-time UG; asphalt technology in civil engr.; awarded by Dept. of Civil & Envr. engr.

Minority Engineering General Scholarship—REHAMS (varies:varies) FT; UG in engr.

A. W. Nolan, Jr. Endowed Scholarship Full-time UG in civil engineering; 2.0 gpa; awarded by Department of Civil Engineering.

Noland Scholarship (2:\$1,000) UG in civil engr.; 2.00 gpa; awarded by Dept. of Civil & Envr. Engr.

Northrop Grumman Diversity Scholarship (1:\$2000) FT; SO/JR/SR; in elec. & comp. engr., mech. Engr., constr. Mgt., or ind. Engr.; 3.0 gpa; academic excellence; awarded by CoE Diversity Programs.

Nortrax/LAPA Scholarship (varies: \$2,000) Full-time SO/JR in civil engr.; Hot Mix Asphalt Technology course required; awarded by Dept. of Civil Engr.

ONR/HBEC Future Engineering Faculty Award (1:varies) FT; GR in engr.; 3.50 gpa

Richard O'Shields Scholarship (varies:\$1,000) UG in engr.; 3.00 gpa; awarded by Dept. of Pet. Engr.

Clint Ourso and Jennifer Romine Scholarship Full-time JR, SR in elec. or comp. engr.; overall gpa 3.4-3.7; awarded by Dept. of Elec. and Com. Engr.

Boykin and Mable Pegues Scholarship (80:\$1,000) UG in chem. engr., civil engr., elec. engr., ind. engr., mech. engr., and pet. engr.; awarded by Col. of Engr.

Petroleum Engineering General Scholarship—Newfield Exploration Company (2:\$1250) FT; UG in pet. engr.

Petroleum Engineering Miscellaneous—API Houston Chapter (varies:\$750) FT; UG in pet. engr.; 2.00 gpa; academic ability and potential for success.

Petroleum Engineering Miscellaneous—SPE Dallas section (varies: \$1000) Ft; UG or GR in pet. engr.; 2.00 gpa; academic merit and potential for success

Petroleum Engineering Miscellaneous—RPSEA (varies:\$2500) FT; UG or GR in petr. engr.; 2.00 gpa; academic merit and potential for success

Wiley D. Poole Memorial Scholarship Full-time SO, JR, SR majoring in biol. engr.; 3.0 gpa and financial need; awarded by Dept. of Biol. & Agr. Engr.

Alan M. Raymond (varies:varies) Full-time UG in chem. engr.; awarded by Dept. of Chem. Engr.

Raytheon Scholarship (1:\$1,000) JR in engr.; awarded by Col. of Engr.

***George Raymond Scholarship (varies:varies)** UG in elec. engr.; 2.50 gpa; awarded by Dept. of Elec. Engr.

Return to Learn Scholarship in Petroleum Engineering Full-time UG; part-time employment in upstream oil required; awarded by Dept. of Pet. Engr.

Routh Family Scholarship (varies:varies) JR or SR in chem. engr., elec. engr., or pet. engr.; awarded by Col. of Engr.

Schlumberger Foundation, Inc. Scholarship (varies:varies) JR/SR in pet. engr.; awarded by Col. of Engr. and Dept. of Pet. Engr.

Hermann Schluter Family Scholarship (1:\$1,000) SO or above in engr.; 3.00 gpa; awarded by Col. of Engr.

Scholarship Fund for Minority Engineering Program Students in Chemical Engineering (varies:varies) FT; UG; ChE major; preference to minority students.

Scott-Windham Scholarship UG in biol. and agr. engr.; 2.5 gpa; financial need considered; awarded by Dept. of Biol. & Agr. Engr.

***John J. Seip Memorial Scholarship Award (1:varies)** GR in Audubon Sugar Institute, studying sugar technology; awarded by Dept. of Chem. Engr.

John E. Seip Scholarship (varies:varies) UG in chem. engr.; awarded by the Dept. of Chem. Engr.

The Shaw Group Diversity Scholarship (2:\$2500) FT; SO/JR/SR in engr. Prefer civil & mech. Engr.; 2.5 gpa; financial need, leadership & community service; awarded by CoE Diversity Programs.

Andrew J. Shoup, Jr. Endowed Scholarship (varies:varies) Full-time UG in pet. engr.; financial need; academic merit; awarded by Dept. of Pet. Engr.

Society of Petroleum Engineers, Delta Section, Scholarship (varies:varies) UG in pet. engr.; awarded by Soc. of Pet. Engrs.

Society of Petroleum Engineers, Evangeline Section, Scholarship (varies:varies) UG in pet. engr.; awarded by Soc. of Pet. Engrs.

Society of Petroleum Engineers, South Louisiana Section Scholarship (varies:varies) UG in pet. engr.; awarded by Soc. of Pet. Engrs.

Southeastern Asphalt User/Producer Group Scholarship (varies:\$3000) FT; UG in civ. engr.

South Louisiana Section Endowment Scholarship (varies:varies) Full-time UG in pet. engr.; preference given to Terrebonne, Lafourche, St. Mary, or Assumption parish residents; awarded by Dept. of Pet. Engr.

Stokes & Spiehler—J.R. Spiehler Scholarship (varies:varies) Full-time UG in pet. engr.; financial need; academic merit; awarded by Dept. of Pet. Engr.

Carl Streva Engineering Scholarship (varies:varies) Full-time UG ; 2.00 gpa; St. Mary, St. Martin or Iberia Parish resident; awarded by Col. of Engr.

Robert S. Stricklin Scholarship (varies:varies) Full-time UG in engr.; 2.50 gpa; financial need; awarded by Col. of Engr.

James Sturgis Scholarship (varies:varies) UG in mech. engr.; U.S. citizen; awarded by Dept. of Mech. Engr.
TAF Engineering Award (varies:varies) FT or PT; UG in engr.

Patrick F. Taylor Scholarship (varies:\$1500) FT; UG in engr.; 2.750 gpa; U.S. citizen with financial need and academic excellence; awarded by CoE Diversity Programs.

Texas Tigers Golf/Houston Scholarship (varies:varies) Full-time UG in pet. engr.; 3.50 gpa; financial need; priority to Texas residents; awarded by Dept. of Pet. Engr.

Carl H. Thomas Memorial Scholarship Full-time SO, JR, SR in biol. engr.; 3.0 gpa or above; awarded Dept. of Biol. & Agr. Engr.

Blakely and Archie Thompson Endowed Scholarship (varies:varies) Full-time UG in pet. engr.; awarded by dept. of Pet. Engr.

Total USA Scholarship (1-3:\$3,000) FT; UG; sophomore-through-senior, major in ChE, ME, or CEE, 2.8 gpa or better, LA high school grad, preference to high school National Honor Society members and students recognized in the National Merit Scholarship Program, community service, need-based, membership in appropriate discipline-specific club (i.e. ASME, AICHE, etc.).

Turner Industries LTD Scholarship Fund (varies:varies) Full-time JR in Col. of Engr.; planning a career in construction, industrial maintenance, and/or electrical and instrumentation business; U.S. citizen; financial need; awarded by the CMIE Department.

Uniroyal Scholarship (varies:varies) JR in envr. engr.; 3.00 gpa; awarded by Dept. of Civil & Envr. Engr.

Unocal Foundation Scholarship Full-time UG in pet. engr.; 3.0 gpa; scholastic merit and financial need considered; awarded by Dept. of Pet. Engr.

***Vulcan Chemical Scholarship (3:\$1,000)** Full-time UG student in chem., mech., minority engr.; awarded by Col. of Engr.

Frank H. Walk Scholarship (varies:varies) Full-time SR in chem., civil, elec. or mech. engr.; financial need; U.S. citizen; LA resident; awarded by Col. of Engr.

Robert E. Watson, Jr. Endowed Scholarship Full-time UG in engr.

***George H. Wilson Scholarship (varies:varies)** Full-time UG in asphalt technology in civil engr.; awarded by Dept. of Civil & Envr. Engr.

Harold Windham—Memorial Scholarship (varies:varies) UG/GR in pet. engr.; awarded by Dept. of Pet. Engr.

Floyd W. Womack, Sr. Scholarship (varies:\$1,000) Student in const. mgt.; awarded by Dept. of Const. Mgt.
W&T Offshore, Inc. Scholarship (varies:varies) Full-time UG in pet. engr.; financial need; academic merit; awarded by Dept. of Pet. Engr.

***Claire & Bobby Yeagain Scholarship (varies:varies)** Full-time UG in asphalt technology in civil engr.; awarded by Dept. of Civil & Envr. Engr.

Amy & Zeke Zeringue Endowed Scholarship (varies:varies) Full-time UG in pet. engr.; awarded by Dept. of Pet. Engr.

MANSHIP SCHOOL OF MASS COMMUNICATION

Patricia Wilson Baldrige Memorial Scholarship (1:varies) JR or SR female majoring in mass comm.; 3.20 gpa; strong record of campus extra-curricular activities; awarded by the Manship Sch. of Mass Comm.

Pete Beardsley Scholarship (1:varies) Full-time mass comm. SR with concentration in journalism.

John Blanchard "Top 100" Scholarship (varies) FR majoring in mass comm.; must be among top 100 entering students; awarded by SA&S Com.

Albert and Virginia Bunch Scholarship (1:varies) Entering FR in mass comm.; awarded by Manship Sch. of Mass Comm.

John Henderson Cade Memorial Scholarship (1:varies) Full-time print or broadcast communications major with 3.00 overall gpa; must display talent and enthusiasm for writing and have evidence of financial need.

Katheryn Pate Callahan Scholarship FT FR with an interest in print journalism; financial need.

***Margaret Dixon Mass Communication Award (1:varies)** SR female in mass comm.; media achievement; awarded by Manship Sch. of Mass Comm.

Robert Ewing Scholarship (varies:varies) Any classification in mass comm. and has 3.50 gpa; awarded by Manship Sch. of Mass Comm.

Jim Featherston Scholarship (1:varies) JR in mass comm. who has attended LSU since FR year; 3.00 gpa; interest in print journalism; awarded by Manship Sch. of Mass Comm.

Freeport-McMoRan Minority Scholarship (1:\$500 per semester) FR majoring in mass comm.; awarded by the Manship Sch. of Mass Comm.

***Roberta Gilkison Falk Student Travel Grants (varies:varies)** Meritorious mass comm. students; awarded by Manship Sch. of Mass Comm.

Guaranty Broadcasting Scholarship (1:varies) Full-time mass comm. undergraduate with concentration in journalism.

***Walter Hitesman Scholarship (3:\$500 per sem)** mass comm. student having financial need and showing great promise as a journalist; awarded by Manship Sch. of Mass Comm.

Roland T., Jr. and Malva Haynes Huson Full time UG mass comm. major with financial need; preference given to print journalism students.

Johns Memorial Scholarship (1:\$1,500) Mass comm. major with interest in agric. journalism; additional funding available for approved travel; awarded by the LSU Ag. Ctr.

***Benjamin F. Leeper Memorial Scholarship (1:varies)** JR in mass comm.; interest in photography; 3.00 gpa; awarded by Manship Sch. of Mass Comm.

Bill Lynch Memorial Scholarship FT SR with a concentration in journalism; must demonstrate financial need and academic excellence.

Manship Scholarship (varies:varies) Entering FR in mass comm. with superior scholastic record; at least 26 composite score on ACT; renewable; awarded by Manship Sch. of Mass Comm.

Nancy Norris Memorial Scholarship (1:varies) Full-time mass comm. major with at least 3.00 overall gpa; may reapply for additional year.

Phi Kappa Phi Outstanding Senior Award (1:Certif.) SR with highest gpa; selected by dean, Manship Sch. of Mass Comm.

Bryan Putnam Memorial Scholarship (varies) SO/JR/SR in mass comm. with 3.00 gpa; awarded by Manship Sch. of Mass Comm to financially needy students.

Barbara Calvit Rogers Scholarship (1:varies) Full-time JR or SR mass comm. major.

Melvin and Charlotte Schexnayder Scholarship (1:varies) Entering FR with demonstrated interest in journalism; or SO or JR full-time mass comm. major in print journalism.

***Joseph M. Silverberg Memorial Scholarship (1:varies)** SR in news-editorial; graduate of LA high school; 3.00 gpa; awarded by Manship Sch. of Mass Comm.

Patrick J. Sorrells Scholarship (1:varies) SO/JR/SR mass comm major with an interest in advertising sales.

Byron St. Dizier Endowed Scholarship (1:varies) SR in mass. com. with demonstrated ability for and commitment to print or broadcast journalism; awarded by Manship Sch. of Mass Comm.

Jean Wheeler Memorial Scholarship (1:\$500) UG female with demonstrated interest in mass comm. and/or theatre; 3.00 gpa; awarded by L'Acadienne Chapter of American Women in Radio and Television, in consultation with faculty of relevant departments.

WRKF Scholarship (1:\$500) Mass comm. major; 60 hours minimum; 2.75 gpa required.

David Yates Memorial Award (1:varies) Outstanding SR male majoring in mass comm.; selected each spring.

Fellowships

Manship Graduate Fellowship Students admitted to doctoral program in the Manship School of Mass Communication are automatically considered for this award.

Pennington Fellowship in Health and Environmental Communication Students admitted to doctoral program in the Manship School of Mass Communication are automatically considered for this award.

Huie-Dellmon Endowed Fellowship Students admitted to doctoral program in the Manship School of Mass Communication are automatically considered for this award.

Scripps Howard Fellowship in Media and Politics Students admitted to doctoral program in the Manship School of Mass Communication are automatically considered for this award.

Ken Uffman/Credit Bureau of Baton Rouge Endowed Fellowship Students admitted to doctoral program in the Manship School of Mass Communication are automatically considered for this award.

Bart Swanson Memorial Award Fund Students admitted to doctoral program in the Manship School of Mass Communication are automatically considered for this award.

Larry D. Smith Endowment Fund Students admitted to doctoral program in the Manship School of Mass Communication are automatically considered for this award.

Our Lady of the Lake Regional Medical Center Fund Students admitted to doctoral program in the Manship School of Mass Communication are automatically considered for this award.

Patricia K. Benoit and Weldon G. Cannon Graduate Research Fellowship Award Graduate students with an approved thesis or dissertation proposal may apply for this award. For information, please consult the Associate Dean for Graduate Studies and Research in the Manship School of Mass Communication.

COLLEGE OF MUSIC & DRAMATIC ARTS

Awards

Lucille J. Blum Award in Music (2:varies) Awarded to vocal and instrumental students receiving BM degree with highest gpa at graduation.

Tiger Marching Band Award (varies:\$1,000) Every Tiger Marching Band member eligible for cash service award at end of each fall semester; participation by audition only; full-time student with minimum gpa of 2.00.

Scholarships

David Chang Memorial Scholarship (1:\$1,500) Outstanding violin student; awarded by Sch. of Music.

Frances Greer Scholarship in Voice (varies) UG/GR music majors in voice; awarded by the School of Music.

***Forrest F. Griffen Memorial Scholarship (varies)** Outstanding UG/GR tuba or low brass student(s); awarded by low brass faculty.

Frances Taylor Kurzweg Distinguished Pianists Scholarship (2:varies) GR; awarded to student by recommendation of the dean.

Louisiana Music Award (varies) UG/GR; renewable; based on competitive auditions and academic standing; awarded by dean.

Baton Rouge Music Club, Marshall Peery Scholarship (1:varies) JR voice student, by audition; awarded by Baton Rouge Music Club.

Baton Rouge Music Club, Gertrude Bott Saucier Scholarship (1:varies) JR instrumental student, by audition.

Opera Guild of Baton Rouge Scholarship (2:varies) Outstanding voice student who is (or will be) enrolled in opera workshop; awarded by Sch. of Music.

Gladys Means Loyd Scholarship (1:fee waiver for two sem.) JR/SR or female GR in theatre; academic ability and talent; awarded by theatre faculty.

Susie Chaney-O'Quinn Travel Grant Fund for MFA Directors (varies) Meritorious student directors in Theatre MFA program in need of travel funds to conferences off-campus or as apprentices on professional productions; awarded by Dept. of Theatre.

John Patterson Scholarship (varies) Outstanding bassoon student(s); awarded by Sch. of Music.

Piano Pedagogy Scholarship (varies) UG/GR piano pedagogy major; gpa; awarded by the School of Music.

Theodore Presser Foundation Scholarship (1:varies) Outstanding UG in Sch. of Music; awarded by Sch. of Music.

Earl Redding Memorial Prize in Musical Theatre (1:varies) UG concentrating in voice; awarded by Sch. of Music.

***Claude L. Shaver Scholarship (1:fee waiver)** JR/SR/GR in theatre; academic ability and theatre talent; awarded by theatre faculty.

Oramay Welch Young Scholarship (varies) Awarded to gifted incoming music student.

Frank Collins Memorial Scholarship (1:varies) UG/GR concentrating in organ; awarded by Sch. of Music.

***Helen Libbey Cordiner Scholarship in Violin (1:varies)** UG violin student; awarded by Sch. of Music.

***Dr. Michael A. Galasso Memorial Scholarship (1:varies)** UG incoming violin student; awarded by Sch. of Music.

Alvin Earl Hatton Memorial Scholarship (varies) Keyboard students; preference to organ; awarded by Sch. of Music.

***L. Bruce Jones Memorial Scholarship (varies)** UG/GR majoring in music education; excellent academic record; awarded by Sch. of Music.

***Kenneth Klaus Viola Scholarship (1:varies)** Student concentrating in strings in Sch. of Music; musical and academic ability and financial need; awarded by Sch. of Music.

***Byron Lamb Memorial Scholarship (1:varies)** Outstanding UG/GR tuba or low brass student; awarded by Sch. of Music.

Carleton Liddle Scholarship in Piano (varies) Awarded by Sch. of Music.

Richard F. Norem, Sr. Scholarship (1:varies) Awarded to outstanding JR, SR, or GR student concentrating in Horn; musical and academic ability; citizenship; awarded by the Sch. of Music.

Brent Rhodes Memorial Scholarship (1:varies) Awarded to UG studying percussion.

The Richine Fund (varies) Awarded to outstanding UG or GR students demonstrating musical and academic ability; awarded by the Sch. of Music.

***Barrett and Mae Stout Memorial Scholarship (1:varies)** SR music student; distinguished gpa in music theory and lit.; awarded by Sch. of Music.

UNIVERSITY COLLEGE

Scholarships for New Freshmen

Vincent E. Cangelosi Scholarship (varies:varies) Entering FR graduated in top 15 percent of high school class with a high school gpa of 3.00 or higher and SAT score of 1100 or above or ACT composite score of 25 or above; student must be enrolled at LSU full-time; non-renewable.

King-Sollberger Scholarship (varies:varies) Entering FR who is resident of LA or MS with at least 2.5 gpa; financial need considered; award disbursed over two semesters; student must be enrolled at LSU full-time; non-renewable.

***Marjorie Longsdorf Scholarship (varies:varies)** Full-time FR who is a graduate of Baton Rouge Magnet High School; plans to major in education. Student must be enrolled full-time at LSU.

***Anthony J. Losavio Scholarship (varies:varies)** Full-time FR with composite ACT of 22-28; must be a graduate of a LA high school. May not hold another scholarship other than TOPS; may have grant, financial aid, and/or job. Financial need, academic ability, leadership, and responsibility are considerations. Student must be enrolled at LSU full-time; non-renewable.

***Josephine R. Losavio Scholarship (varies:varies)** Full-time FR with composite ACT of 22-28; must be a graduate of LA high school. May not hold another scholarship other than TOPS; may have grant, financial aid, and/or job. Financial need, academic ability, leadership, and responsibility are considerations. Student must be enrolled at LSU full-time; non-renewable.

Delise-Bordelon Family Scholarship (varies:varies) Full-time FR from single-parent family. Preference given to student whose parent is deceased; student must demonstrate financial need. Student must be enrolled at LSU full-time; and be in good academic standing; non-renewable.

Gerald L. and Gayle W. Foret Scholarship (varies:varies) Full-time undergraduate with at least a 3.0 gpa, enrolled in University College; preference given to freshman; financial need considered; award disbursed over two semesters.

Scholarships for Continuing Students

C. Buell Close Scholarship (1:\$500) Open to full-time student who plans to major in education and has completed at least 15 sem. hrs. at LSU with at least 3.00 cumulative gpa; recipient must be a graduate of a Rapides Parish public high school; financial need considered; student must be enrolled full-time at LSU; and in good standing; non-renewable.

***Elayn Hunt Memorial Scholarship (varies:varies)** Full-time female FR student with a minimum of 15 credit hours and at least 2.00 gpa. Financial need considered; student must be full-time at LSU; non-renewable.

Liuzza Family Scholarship (varies:varies) Full-time undergraduate student who has completed at least 24 sem hrs at LSU and has maintained at least a 3.2 cumulative gpa; preference given to graduate of accredited high school in Jefferson or Orleans Parish; primary pre-dentistry or pre-medicine; non-renewable.

Don Redden Scholarship (varies:varies) Open to a FR student with a minimum of 15 hours and at least a 3.5 gpa; must be a U.S. citizen and can hold no other scholarships, excluding TOPS; student must be enrolled full time at LSU; non-renewable.

Ryan Paul Shannon Memorial Scholarship (varies:varies) Full-time student enrolled in allied health who has at least a 3.00 gpa and an ACT score of 23 or above; first preference to students from St. Charles, Orleans, Jefferson, or St. John the Baptist parishes; financial need considered; non-renewable.

Glenda W. Streva Scholarship (varies:varies) Full-time student enrolled in pre-nursing who has at least a 2.0 gpa; first preference to student from St. Mary, St. Martin, or Iberia Parish; non-renewable.

Tiger Athletic Foundation Scholarship (\$1,000) FR student with a minimum of 15 hours and at least 3.5 gpa; must be U.S. citizen and can hold no other scholarship, excluding TOPS; Student must be enrolled full-time at LSU; non-renewable.

Tiger Athletic Foundation Sophomore Award (\$1,000) Enrolled student with a minimum of 15 hours and at least 3.5 gpa; must be U.S. citizen and can hold no other scholarship, excluding TOPS; Student must be enrolled full-time at LSU; non-renewable.

The Tweedy Family Scholarship (\$500) Full-time undergraduate student enrolled in University College; must have completed one semester at LSU with overall LSU gpa of at least 3.0; scholarship awarded one semester; but may be retained an additional year provided funds are available and recipient continues to meet eligibility.

A.W. Walsdorf Scholarship (varies:varies) Full-time undergraduate who has completed at least 24 semester hours at LSU and maintained at least a 3.2 cumulative gpa; preference given to a graduate of an accredited high school in Rapides or Washington Parish who has interest in Zoology, Social Work, or Industrial Engineering; scholarship revoked if recipient is placed on disciplinary probation or resigns from the University; non-renewable.

OTHER SCHOLARSHIPS AND AWARDS

***Alpha Phi Fraternity Award (varies:varies)** Awarded to SO, JR, or SR; minimum 3.00 gpa; preference for members, alumnae, legacies, or relatives.

***Jacob R. Bankston Scholarship (1:varies)** Student must have specific documented disability. Recommended by the Office of Disability Services. Awarded by SA&S Committee.

***Philip J. Barbier Memorial Scholarship (varies:varies)** Awarded to undergraduate students with financial need; minimum 3.00 gpa; awarded by Office of SA&S.

***Skip Bertman Leadership Scholarship (varies:\$1,000)** Awarded to EF demonstrating outstanding leadership ability; financial need may be considered; awarded by SA&S Cmte.

Board of Supervisors Scholarship (varies:varies) Scholarships are awarded by individual members of the LSU Board of Supervisors for UG in the amount of the UG tuition and GR/professional students in the amount of GR tuition. A limited number of nonresident fee exemptions are available to qualified undergraduate students. Applications available at www.lsusystem.lsu.edu.

Robert L. Brooksher/Mid-Continent Oil and Gas Association Energy Scholarship (1:varies) JR or SR in an energy related discipline; awarded by a special committee on the basis of academic credentials.

***Campus Club Scholarship Award (varies:varies)** 3.50 or better gpa; child or grandchild of persons eligible for Campus Club membership; awarded by SA&S Com.

Capitol Lodge No. 29, Knights of Pythias Memorial Scholarship (1:\$1,000) Entering FR; awarded by Office of SA&S.

***Christin Claire Cosby Scholarship (1:varies)** Graduate of Live Oak high school; awarded by the Office of SA&S.

Dallas/Ft. Worth LSU Alumni Chapter Scholarship (1:\$1,000) Awarded to UG resident of D/FW; minimum 23 ACT and 3.00 high school gpa or 3.00 college gpa; financial need may be considered. Awarded by the Office of SA&S.

Joseph F. Dohrer Memorial Scholarship (1:varies) Entering FR; awarded by the Office of SA&S.

Clarence P. Dunbar Scholarship (2:\$1,200) Graduate of a St. Landry Parish high school; awarded by the Office of SA&S.

***Farmer's Grain Terminal Scholarship (1:varies)** EF from certain parishes with at least a 3.00 gpa; financial need may be considered; awarded by the Office of SA&S.

***Georgia Pacific Foundation/Port Hudson Scholarship (1:\$1,500)** Awarded to a graduate of Zachary High School planning to major in engineering; awarded by Office of SA&S.

***Leslie G. Gruber Scholarship (1:\$1,000)** Awarded to a high school graduate from Tennessee with an excellent academic record and financial need. Awarded by SA&S Committee.

***Leon Guerin—Al Evans Memorial Scholarship (4:varies)** LA high school graduate; academic ability and financial need; awarded by SA&S Com.

***Fannie Guy Memorial Scholarship (1:varies)** Graduate of DeSoto Parish high school; awarded by SA&S Com.

***Halbedel Trust Scholarship Fund (varies:\$500)** UG needing financial assistance; awarded by SA&S Com.

***George W. Hollinshead Scholarship (4:\$500)** UG from Avoyelles Parish in agriculture or education with financial need; awarded by the Office of SA&S.

***General Gordon Ingersoll Award (1:\$500)** Awarded to a student with an excellent academic record. Awarded by SA&S Committee.

International Student Undergraduate Nonresident Honor Award (varies:\$8,300) Internat. student; awarded by Internat. Educ. Committee.

***Foster Jones Scholarship (1:varies)** Graduate of a Richland Parish high school; outstanding ACT scores and academic ability; awarded by the Office of SA&S.

***Donald W. Keller Family Scholarship (varies:\$1,000)** Awarded to UG; resident of TX; financial need considered; awarded by the Office of SA&S.

Pam Kinamore Memorial Scholarship (varies:varies) UG, Art & Design major, minimum 3.00 gpa; based on financial need. Awarded by SA&S.

***Joseph A. Kleinpeter Scholarship for Engineering and Science (1:varies)** Awarded to UG majoring in engineering or science/mathematics; minimum 3.00 gpa and 23 ACT; preference for graduates of Amite High School then Oak Forest Academy then to residents of Tangipahoa Parish; awarded by SA&S Cmte.

***James M. Koencke Memorial Scholarship (varies:varies)** Entering FR; outstanding academic and leadership qualities.

Legislative Act 353 of the 1974 Regular Session (varies) Children of law enforcement officers or fire fighters killed or permanently disabled in the line of duty in Louisiana (who register as full-time students) receive exemptions from tuition, on-campus room and board, and book allowances. Applicable to the Director of the LSU Office of Student Aid & Scholarships.

Gillis W. Long Memorial Scholarship (1:varies) UG LA resident in pre-law, pol. sci., or government; awarded by SA&S Com.

LSU Kiwanis Club Scholarship (2:\$750) Dependent of LSU faculty/staff entering SR college in fall semester; awarded by Office of SA&S.

Louisiana Boys' State Award; Louisiana Girls' State Award (12:\$300 FR yr. only) Awarded by director, LA Boys' State and LA Girls' State.

***Captain John Adrian Martin Memorial Scholarship (1:\$1,000)** Entering FR; graduate of Woodlawn High School (B.R., LA); awarded by SA&S Com. on recommendation of Woodlawn High School principal.

***Ben Mayer Scholarship (varies:\$350)** LA resident with demonstrated academic ability and financial need; awarded by the Office of SA&S.

***Mattye F. McGivney Memorial Scholarship (varies: \$1,000)** SO/JR/SR; LA resident; awarded by SA&S Com.

James S. and Paula K. McHugh (varies:varies) GR, based on financial need, minimum 3.00 gpa, U.S. citizen. Awarded by SA&S.

Mike McNeal Memorial Scholarship (1:\$500) Awarded to graduate of Tara High School upon recommendation of principal.

***Anna R. Meyer Memorial Scholarship (1:varies)** UG from Ouachita Parish; awarded by SA&S Com.

Chep Morrison Memorial Scholarship (1:\$950) UG in pre-law; awarded by SA&S Com.

***Marilu Remolina Scholarship (1:\$500)** Awarded to UG student who is foreign born or the child of foreign born parents; international students are not eligible; student must file *Free Application for Federal Student Aid* (FAFSA) application; financial need considered. Awarded by the Office of SA&S.

Charles B. Sherrouse Scholarship (1:varies) Graduate of Franklin Parish high school. Awarded by SA&S Committee.

LSU Staff Senate Scholarship (1:\$500) UG with at least 24 hours earned and 2.50 gpa; must be the dependent of LSU current or retired staff member; awarded by Office of SA&S.

State School for the Blind Scholarship (varies: partial fee waiver) Graduates of LA State School for the Blind; awarded by Office of the University Registrar on evidence of eligibility.

***Bingham Cushman Stewart Scholarship (varies:varies)** Awarded to new and continuing students on the basis of academic credentials; awarded by Office of SA&S.

***Bernice and R. J. Stoker Scholarship (varies:\$1,000)** Awarded to UG; preference for graduate from Sabine or Caddo Parish; financial need may be considered. Awarded by the Office of SA&S.

***Dr. Ben H. and Clare Roy Thibodeaux Scholarship (varies:\$1,000)** Graduates from high schools in certain parishes; financial need may be a consideration; awarded by the Office of SA&S.

Tillotson Design Associates Scholarship (varies;varies) UG, GR, Art & Design major, preference for student affected by Hurricanes Katrina or Rita. Awarded by SA&S.

***Dr. Charles Henry Voss Memorial Scholarship** (1;varies) UG; LA resident; awarded by SA&S Com.
 ***Danton Whitley Scholarship** (1;\$1,000) SO/JR/SR; financial need may be a consideration; awarded by the Office of SA&S.

GRADUATE SCHOLARSHIPS AND AWARDS

For additional information on scholarships and awards for students in the Graduate School or professional schools, see the publications issued by those divisions.

SCHOOL OF LIBRARY AND INFORMATION SCIENCE

***Jimmy H. Hoover Scholarship** (1) GR major in LIS; academic ability; awarded by SLIS.

Louisiana Library Association Scholarship (1) GR major in LIS; academic ability; awarded by LA Library Association.

***Florinell F. Morton Scholarship** (1) GR major in LIS; academic ability; awarded by SLIS.

***Nettie Puckett Wilson Scholarship** (1) GR major in LIS; academic ability; awarded by SLIS.

***Mary Marguerite Hanchey Memorial Fellowship** (1) GR major in LIS; academic ability; awarded by SLIS.

***Sidone Lawrence Walker Scholarship** (1) GR major in LIS; academic ability; awarded by SLIS.

***Lewis Mack Fellowship** (1) GR major in LIS; academic ability; awarded by SLIS.

Mary Moore Mitchell Scholarship (1) GR major in LIS; academic ability; part-time student; awarded by LA Library Association.

***Richard W. Peck Scholarship** (1) GR major in LIS; academic ability; interest in youth services; awarded by SLIS.

***Ollie H. Burns Scholarship** (1) GR major in LIS; academic ability; full-time or part-time student; first preference shall be given to minority student; awarded by SLIS.

Donald D. Foos Scholarship (1) GR major in LIS; academic ability; awarded by SLIS.

***Charles Patterson Scholarship** (1) GR major in LIS; academic ability; full-time or part-time student; pursuing a CLIS degree or other post-master's degree program as the School may offer in the future; awarded by SLIS.

***Friends of the Lafayette Parish Public Library Fellowship** (1) GR major in LIS; academic ability; resident of Lafayette Parish; awarded by SLIS.

***H. W. Wilson Scholarship** (1) GR major in LIS; academic ability; part-time student; awarded by SLIS.

Louisiana Library Association Trustees Section Fellowship (1) GR major in LIS; academic ability; LA resident interested in public libraries; awarded by SLIS.

***John and Hester Slocum Fellowship** (1) GR major in LIS; academic ability; resident of New Orleans area; awarded by SLIS.

FEDERAL FINANCIAL AID PROGRAMS

LSU administers all Title IV federal programs which are based on a student's demonstrated financial need. Funds received from the federal programs help students to cover school expenses, including tuition and fees, room and board, books and supplies, and transportation. All such programs are subject to regulations authorized by the United States Department of Education, as well as University policies consistent with these federal regulations and are subject to change.

Detailed information on these programs can be found on the Internet at www.lsu.edu/financialaid.

Eligibility for Financial Aid

All students must meet the following criteria to apply for Title IV federal aid—grants, work study, and loans:

- Be enrolled as a regular student in a degree-granting or certificate program.
- Be a U.S. citizen or eligible noncitizen (permanent resident).
- Be enrolled at least half-time (most programs—regular semesters: undergraduate, six hours; graduate, five hours;
- Not be in default on prior student loans or owe a refund on a federal grant.
- Be making satisfactory academic progress as described in the section, *Satisfactory Academic Progress for Purposes of Financial Aid Eligibility*.

Application for Federal Financial Aid

Students who wish to apply for the programs described in this section should file either the *Free Application for Federal Student Aid (FAFSA)* or the *Renewal Application*. The FAFSA is available online at www.fafsa.ed.gov. It is recommended that the application be filed no later than March 1 for summer or fall enrollment or October 1 for spring enrollment. These applications cover aid awarded for the upcoming academic year (beginning with the summer term) and application must be made each year.

Once the Office of Undergraduate Admissions & Student Aid has received your FAFSA, additional documentation will be requested through your PAWS accounts. To receive a loan for the academic year, the deadline to return all required documents is the first business day of May. To receive a semester only loan, the deadline to return all required documents is:

- Summer only loans—Last business day of July
- Fall only loans—First business day of December
- Spring only loans—First business day of May

For consideration for Pell grants only, documents may be accepted later than the stated dates. Check with the Student Aid Office for deadlines.

Once all documents are processed, an award letter will be sent via the student's PAWS account to allow them to accept or decline their aid. The deadline for a student to accept a loan is:

- Semester only loans—First day of final exams for that semester
- Academic year loans (summer/fall/spring or fall/spring loans)—First day of spring semester final exams

Please note that students will not receive an award notice until all verification documents have been properly submitted and processed. Documents submitted after the stated deadlines may not result in an award. Student submitting documents after the stated deadlines may jeopardize their opportunity to receive funding for that academic year.

For additional information on these programs, as well as, information regarding how financial need is determined and an LSU student's cost of attendance, visit www.lsu.edu/financialaid.

Grants

- **Federal Pell Grants**—Undergraduate students working toward their first degree are eligible for consideration. Eligibility is determined by a federal need analysis formula.
- **Federal Supplemental Educational Opportunity Grants**—Undergraduate students working toward their first degree, who show exceptional financial need may qualify. Funds are limited.
- **Leveraging Educational Assistance Partnership (LEAP)**—Undergraduate students working toward first degree, who show financial need may qualify. Student must be a Louisiana resident and have a 3.00 gpa.
- **Academic Competitiveness Grant (ICG)**—At least half-time undergraduate students who completed a "rigorous" high school program of study and are: (1) eligible for a Federal Pell Grant; (2) have earned less than 60 credit hours; and (3) meet several other requirements may qualify for this program.
- **National Science and Mathematics Access to Retain Talent Grant (National SMART Grant)**—At least half-time undergraduate students who have earned between 60 and 119 credit hours who are: (1) eligible for a Federal Pell Grant; (2) majoring in specific math, science, or critical foreign languages; and (3) meet several other requirements may qualify for this program.

Campus-Based Programs

- **Federal Perkins Loans**—Low-interest (5 percent) loans made by LSU and repaid to LSU. Interest is subsidized while the student is in school. Students must show financial need and be enrolled at least half-time. Deferment and cancellation privileges are available under certain circumstances. Funds are limited.
- **Federal Work-Study Program**—Campus jobs provided to full-time students, not on academic probation, who show financial need. Students earn an hourly wage (beginning at minimum wage) and are paid every two weeks. Students who are awarded Federal Work-Study employment have the option of choosing job sites designated as community service agencies. Funds are limited.

Federal Family Education Loans

LSU participates in the following Title IV Federal Family Educational Loan Programs:

- **Federal Subsidized Stafford Loans**—Based on financial need, the interest on this loan does not accrue while the student is in school. Payments are deferred until six months after the student ceases being enrolled on at least a half-time basis.
- **Federal Unsubsidized Stafford Loans**—This program enables students to borrow, regardless of need. Interest will accrue on this loan while the student is enrolled, and may be paid or capitalized as agreed by the borrower and the lender.
- **Federal Parent Loan for Undergraduate Students (PLUS)**—This program allows parents of dependent students to borrow per year up to the cost of education, less

any other aid. The repayment period begins on the day the loan is disbursed, and the first installment to the lender is due within 60 days of that date. This loan is not based on need.

- **Graduate PLUS Loans (GRAD PLUS)**—This program is a loan for graduate and professional students that are taken in their own name. This loan will give these students a valuable federal loan alternative to private loans. Just like parent borrowers, these students will be able to borrow under the PLUS program up to the cost of education less other aid received. In addition, these borrowers will have to meet the same credit eligibility requirements that apply to parent borrowers.

Loan disbursements normally occur the week prior to the start of classes. Depending on the award package, loans will be disbursed accordingly: (1) summer, fall, and spring loans will occur in three equal disbursements; (2) fall and spring loans will occur in two equal disbursements; and (3) semester only loans will disburse in one disbursement at the start of the semester. All federal aid funds are applied directly to your student account in the Office of Bursar Operations. If the amount credited to your account is greater than the amount you owe to the University, you will be issued a refund for the credit balance. Allow up to seven business days for the Office of Bursar Operations to process a direct deposit or refund check.

Students borrowing under the Federal Family Education Loans Programs described above, except Parent PLUS, are required by federal regulation to have an *entrance counseling session* before they receive their first disbursement at LSU. This brief online session explains important information about borrowing student loans and money management during school. When a student borrower graduates, resigns, or otherwise ceases to be enrolled on at least a half-time basis at LSU, he/she is required to attend an *exit counseling session*. The online session explains what the borrower should expect upon entering loan repayment. Entrance counseling can be accomplished at <https://staffordloanguide.usafunds.org/>. Exit counseling can be accomplished at <https://studentloantransitionguide.usafunds.org/>. For additional information on a student's rights and responsibilities regarding federal financial aid, refer to www.lsu.edu/financialaid to view *The Guide to Federal Student Aid* published by the U.S. Department of Education.

Loan Cancellation

The deadlines for a student (or parent in the case of a PLUS loan) to cancel one or more of their loans or disbursements of their loan(s), is as follows:

- Academic year loans: 1st business day of May
- Summer only loans: Last business day of July
- Fall only loans: 1st business day of Dec.
- Spring only loans: 1st business day of May

Contact the Student Aid Division of the Office of Undergraduate Admissions & Student Aid for information on how to complete this process. Exceptions to the stated deadlines will be made on a case-by-case basis.

Satisfactory Academic Progress for Purposes of Financial Aid Eligibility

Undergraduate Students

In order to receive financial aid, a student must be making "satisfactory academic progress." For the purpose of participating in any of the federal student aid programs, the LSU Office of Undergraduate Admissions & Student Aid has established the following policy for determining satisfactory academic progress for undergraduate students:

- Students must not be on academic probation if they have enrolled for less than four semesters.
- Students must have a 2.0 cumulative gpa at the end of their fourth semester attempted and thereafter.
- Students must earn at least 75 percent of hours attempted for the past academic year.
- Students may only receive financial aid for a maximum of 180 attempted credit hours (238 for 5 year curricula).
- Students pursuing a second Bachelor's degree may only receive financial aid for a maximum of 60 attempted hours beyond the first degree. Student's pursuing a third bachelor's degree are not eligible for federal financial aid.

If these established criteria are not met at the end of the spring semester, students may seek to appeal if mitigating circumstances affected their academic performance. Students are mailed an appeal form when they are not considered to be making satisfactory academic progress at the end of the spring semester. For a student to re-establish eligibility they must either (1) receive an approved appeal or (2) meet the Satisfactory Academic Progress requirements at the end of the next spring semester. The complete Satisfactory Academic Progress policy may be viewed at www.lsu.edu/financialaid.

Graduate/Professional Students

For the purpose of participating in any of the federal student aid programs, the LSU Office of Undergraduate Admissions & Student Aid has established the following policy for determining satisfactory progress for graduate and professional students:

Graduate Students:

- Students must have a 3.0 cumulative gpa.
- Students must earn at least 75 percent of hours attempted for the past academic year.
- Master's students may receive financial aid for a maximum of five years from the first semester of their program.
- Students pursuing a second master's degree may receive financial aid for a maximum of five years from the first semester enrolled in the program. Students pursuing a third master's degree are not eligible for federal financial aid.
- Doctorate students may receive financial aid for a maximum of seven years from the first semester of their program.
- Students pursuing a second doctorate degree are not eligible for federal financial aid.

Professional Students:

- Students must have a 2.0 cumulative gpa.
- Students must earn at least 75 percent of hours attempted for the past academic year.
- Law students enrolled in the JD/BCL program may receive financial aid for a maximum of 145 attempted credit hours.
- Law students enrolled in the LLM or MCL program may receive financial aid for a maximum of 39 attempted hours.
- Students enrolled in the DVM program may receive financial aid for a maximum of 265 attempted course hours.

If these established criteria are not met at the end of the spring semester, students may seek to appeal if mitigating circumstances affected their academic performance. Students are notified when they are not considered to be making satisfactory academic progress at the end of the spring semester. For a student to re-establish eligibility they must either (1) receive an approved appeal or (2) meet the Satisfactory Academic Progress requirements at the end of the next spring semester. The complete Satisfactory Academic Progress policy may be viewed at www.lsu.edu/financialaid.

Resignations/Unofficial Withdrawals

Students who receive financial aid funds and then resign or unofficially withdraw (cease attendance) during the first 60 percent of the enrollment period will be required to repay all or part of the aid they received. The amount of aid that must be returned is based on the period of time the student remained enrolled. Detailed information regarding the return of funds and postwithdrawal disbursements, if applicable, is located at www.lsu.edu/financialaid.

Federal aid must be returned within 45 days to the appropriate programs in the following order: Unsubsidized Federal Stafford Loans, Subsidized Federal Stafford Loans, Perkins Loans, PLUS (Parent) Loans, Graduate PLUS Loan, Pell Grants, Academic Competitiveness Grant (ACG), National SMART Grant and SEOG. The amount of aid to be returned will be calculated at the time of resignation. For unofficial withdrawals, the amount will be calculated at the end of the enrollment period. Until this obligation is settled, requests for academic transcripts will not be processed and any further financial aid may be in jeopardy.

Campus Employment

Those students who want to work on campus, but do not qualify on the basis of financial need, may seek regular student employment by contacting various departments on campus. Only full-time students who are not on academic probation are eligible to hold campus jobs. Graduating seniors who are part-time in their final semester may have permission to work in a campus job. The Career Services location in B-4 Coates Hall provides assistance to those who seek part-time, internship, co-op, or volunteer positions on and off campus. Graduate students should inquire about the availability of assistantships in their departmental offices. For additional information, visit www.lsu.edu/career.

Short-Term LSU Loans

Full-time students, who have completed registration, and have not received a credit balance check, may apply for short-term Hiram Student Loans in the amount of \$300 for undergraduate students and \$500 for graduate/professional students. Students must not be on academic probation to receive these loans. Students must have repaid any prior short-term loans to be eligible. Loans are made starting on the first day of classes and continues for the first two weeks of classes. Students are permitted a maximum of 60 days to repay the loan in full. A 2 percent service charge is assessed on the amount borrowed. This 2 percent service charge is equivalent to an annual interest rate of 12 percent.

Hiram Student Loans are to be repaid at the Office of Bursar Operations, 125 Thomas Boyd Hall, on or before the maturity date shown on the promissory note signed by the student at the time the loan was negotiated. Students who fail to repay Hiram Student Loans by the maturity date may jeopardize their chances of receiving future loans.

Accounts that must be turned over to LSU's attorneys for collection are assessed an additional collection fee. *All international students who are interested in Hiram Loans should contact the International Student Office prior to* receiving loans or working in jobs on campus.

VETERANS' BENEFITS

The Office of the University Registrar, 112 Thomas Boyd Hall, provides counseling and information for veterans attending LSU. Enrollment certifications to the Veterans' Administration are handled through this office, and all veterans and eligible dependents of deceased or disabled veterans are urged to establish contact with the Office of Veterans' Affairs when they arrive on campus. New students who wish to receive advance pay should notify this office at least 30 days prior to registration. Information is also available at the Office of Veterans' Affairs Web site: www.lsu.edu/slas/vetaffairs.

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Undergraduate Fees • Expenses

The Board of Supervisors may adjust fees and costs for dining plans and housing at any time and without providing advance notice to students. Please check with the Office of the University Registrar, 112 Thomas Boyd Hall, 225-578-1686, for up-to-date fee information.

FEES AND EXPENSES

Student expenses, other than campus fees and nonresident fees, will vary with the individual. A Baton Rouge area student living with parents or a student living on campus spends about \$2,534 in addition to fees, housing, and a dining plan per school year. A student living off campus can expect to spend at least \$7,236 per academic year for rent, food, clothing, laundry, cleaning, books and school supplies, transportation, entertainment, and incidentals. Married students spend approximately \$13,600 per academic year.

Total first-year expenses for sororities, including some one-time fees, average \$2,000; subsequent yearly costs are approximately \$1,300, not living in the house. Costs for fraternities average \$1,500 for the first year, which includes some one-time fees.

The following is an **approximation** of what a student may expect to spend each semester for fees, housing, and dining plan.

SEMESTER FEES FOR UNDERGRADUATE STUDENTS

Please refer to the Office of Budget & Planning Web site (www.bgtplan.lsu.edu/fees.htm) for the listing of current fees.

HOUSING FEES

Rental rates are published on a semester basis. Please refer to the Residential Life Web site (www.lsu.edu/housing) for a listing of current rates.

LSU DINING

Please refer to the LSU Dining Web site (www.lsudining.com) for information on meal plans, locations, and pricing.

APPLICATION FEE

A *nonrefundable application fee* of \$40 (check or money order) must accompany the application for admission. In addition to this fee, a *nonrefundable late application fee* of \$15 is charged students who file applications after **December 1** for the spring semester, after **April 15** for the summer term, and after **April 15** for the fall semester. Applications submitted after the deadline date will be considered on an appeal basis only. The University is not responsible for cash sent by mail.

GRADUATION FEES

- Bachelor's degree fee, \$25
- Duplicate diploma fee, \$20 (charged if a diploma is ordered and student does not graduate at that commencement)
- Replacement diploma fee, \$30

SPECIAL FEES

Academic Excellence Fee

The Academic Excellence Fee is used to promote academic excellence by enhancing instructional programs. Please refer to the Fees Glossary on the Office of Budget & Planning Web site, which is located at www.bgtplan.lsu.edu/fees/feeglossary.htm for the current amount of this fee.

Operational Fee

During the 2004 Regular Session, the Louisiana Legislature passed House Bill 1062 authorizing the LSU Board of Supervisors to assess an operational fee of up to four percent of the total mandatory tuition and fees. The operational fee is used to cover state mandated costs and enhance instructional programs at the University. Please refer to the Fees Glossary on the Office of Budget & Planning Web site at www.bgtplan.lsu.edu/fees/feeglossary.htm for the current amount of this fee.

Student Technology Fee

This fee is dedicated to the acquisition, installation, maintenance, and intelligent use of state-of-the-art technology solely for the purpose of supporting and enhancing student life and learning and preparing graduates for the workplaces of the 21st century. Please refer to the Fees Glossary on the Office of Budget & Planning Web site at www.bgtplan.lsu.edu/fees/feeglossary.htm for the current amount of this fee.

Student Health Fee

During registration, all full-time students are assessed the student health fee. This fee, included in the required fees, entitles the student to use of the Student Health Center. Please refer to the Student Health Center Web site (www.lsu.edu/shc) for a listing of exact fees.

There is no charge to visit primary care and specialty medical clinicians, but charges are assessed for treatments, pharmaceuticals, diagnostic imaging, and laboratory work. Students can also see a mental health clinician, health educator, and registered dietician at no additional charge.

Part-time students who want to use the center have the option of paying the fee, which entitles them to the same services as full-time students for the entire semester. Part-time students also have the option of paying a per-visit charge, which includes a follow-up visit for the same medical condition.

Nonstudent spouses are allowed to pay the semester fee or per-visit fees for treatment in the Student Health Center. Ancillary service charges (lab, pharmacy, diagnostic imaging) will be assessed at student rates.

Audit Fees

Fees for auditing courses are in accordance with the "Regular Semester" and "Summer Term" fees. Maximum fee is \$1,508 for the regular semester and \$1,216 for the summer term. Fees for students enrolling for combined credit and audit work will be assessed in accordance with total hours scheduled.

Industrial Cooperative Education Program

Students enrolled in the alternating Industrial Co-op Program pay the tuition and required fees as follows:

CO-OP ONLY

Students enrolled in co-op only during the fall, spring, or summer semester pay the \$50 co-op fee and all full time required fees (excluding the Student Sports Recreation and Student Health Center Fee). Please refer to the Office of Budget & Planning Web site at www.bgtplan.lsu.edu/fees.htm for the listing of current fees.

CO-OP & THREE-HOUR COURSE

Students enrolled in co-op and a three-hour course during the fall, spring, or summer semester pay the tuition for three hours of credit and all full time required fees (excluding the Student Sports Recreation and Student Health Service Fees). Please refer to the Office of Budget & Planning Web site at www.bgtplan.lsu.edu/fees.htm.

Three-Week Summer Short Courses

See note section at bottom of Summer Student Required Fees Schedule on the Office of Budget & Planning Web site at www.bgtplan.lsu.edu/fees.htm.

Undergraduate Geology Field Fees

Students enrolled in undergraduate geology field courses must pay the \$150 camp fee, tuition, required fees, and non resident fee (if applicable) for six hours of credit. With a few exceptions, these fees conform to the summer term fee schedule. Please refer to the Office of Budget & Planning Web site at www.bgtplan.lsu.edu/fees.htm.

Other Fees

- A small number of curricula and courses require the payment of additional fees. These fees are detailed in the college, school, or departmental listings or in the course descriptions.
- Students registering for *degree only* pay no registration fee. (Such students must register through the Office of the University Registrar no later than the beginning of the semester or summer term when the degree is to be conferred.)
- *Departmental Proficiency and Advanced-Standing Examinations*—\$20 per examination. An additional \$20 processing fee is assessed for each examination admin-

istered by the Center for Assessment & Evaluation. These examinations are given free of charge to beginning freshmen who are participants in the Spring Invitational, Freshman Orientation, or Special International Student Testing programs, provided the students complete the testing by the final date to add courses for credit during their first term of enrollment at LSU. All other students must pay the fees specified above.

- Each LSU nonimmigrant student will be charged \$10 per semester to support the programs, operations, and maintenance of the *International Cultural Center*. They will also be charged \$50 per semester for International Students Status Compliance. This service charge will allow the LSU International Services Office to meet federal mandates and continue to provide the best information and professional services to the international population at LSU.

Motor Vehicle Registration Fee

All students (full-time, part-time, night, and auditors) who operate or expect to operate a motor vehicle on campus regularly or occasionally are required to register with the Office of Parking, Traffic & Transportation. A registration fee will be charged for each permit issued. The exact amount of this fee will be published each year in the *Traffic & Parking Regulations* issued by the Office of Parking, Traffic & Transportation.

STUDENT HEALTH INSURANCE PLAN

A student health insurance plan is offered to students and their eligible dependents through an insurance company approved by the University. *This coverage is strongly recommended to relieve students of possible financial strain in meeting expenses for medical services that the Student Health Center does not provide.*

The University requires that all nonimmigrant international students on "F" and "J" visas enroll in the LSU Student Insurance Program at the time of registration or provide evidence in advance to the International Services Office (ISO) of acceptable insurance coverage. All acceptable insurance plans must meet or exceed the following:

- Policy minimum of \$50,000 per accident or sickness OR \$100,000 minimum aggregate plan for F-1 and F-2 (issued I-20 forms). Policy minimum of \$50,000 per accident or sickness for J-1 and J-2 visa (issued DS-2019 forms) holders (required by U.S. Department of State regulations)
- Maximum deductible amount of \$500
- There must also be a maximum deductible for each 12-month period of \$500 per covered person for multiple party plans
- Policy benefits must meet or exceed those set forth in the LSU endorsed Student Accident & Sickness Insurance plan (including maternity coverage paid as any other health conditions), regardless of gender
- A U.S. agent located in the U.S. with a

U.S. telephone number that can act on behalf of provider

- Policy must cover routine care visits for colds, flu, etc., and not just emergency care
- Minimum \$7,500 benefit for Repatriation Coverage
- Minimum \$10,000 benefit for Medical Evacuation Coverage

Students enrolled in the School of Veterinary Medicine are required to have the student health insurance coverage through enrollment in the University-sponsored plan or to have proof of participation in an equal or better insurance program.

PAYMENT OF FEES

Students are notified by e-mail each semester by the Office of Bursar Operations of the date the online fee bill is available on PAWS (Personal Access Web Services). All fees and other University charges are due by the date indicated on the online fee bill.

Payment Options

- *Online check/bank draft* • Pay your fee bill with an online check or bank draft via PAWS from the "Fee Bill" application.
- *Credit card* • Pay your fee bill with a MasterCard, Visa, American Express, or Discover credit card via PAWS from the "Fee Bill" application. Note: A 2.5 percent processing fee will be added to credit card payments.
- *Mail* • Print and return the online remittance stub and payment to the LSU Office of Bursar Operations, 125 Thomas Boyd Hall, Baton Rouge, LA 70803.
- *In person* • Pay by cash, check, or money order in 125 Thomas Boyd Hall.
- *Deferred payment plan* • Eligible student can defer 50 percent of the current semester charges. Payment of 50 percent of current semester charges and any prior account balance must be received by the payment due date. Note: A \$15 service charge will be assessed on all deferrals. The deferred payment plan may be selected via PAWS from the "Defer Payment/Payroll Deduct" application.

LATE REGISTRATION SERVICE CHARGE

Students who do not pay fees by the deadline must pay a \$75 late registration service charge when subsequently registering.

FEE EXEMPTIONS FOR INDIVIDUALS OVER 65

According to the provisions of Act 525 of the 1975 Louisiana legislature, individuals over 65 years of age may enroll in one or more college-level courses and be exempt from the payment of the University fee. Further information may be obtained from the Office of the University Registrar.

FINANCIAL OBLIGATIONS TO THE UNIVERSITY

A student will be subject to dismissal from the University as a result of failure to pay fees and/or other charges when due or when a check offered by the student in satisfaction of an obligation to the University is not honored by the bank on which it was drawn. Due notice of the delinquency shall be given to the student by the Office of Bursar Operations. There will be a charge of \$25 per returned check.

REFUND OF FEES

- Refund of the University fee, nonresident fee, student health service fee, academic excellence fee, operational fee, and student technology fee will be made on the basis of the official withdrawal of the student. Refer to chart below for the schedule for refund of fees. ("Days of classes" are days on which regular classes are held.)
- No refunds will be processed for at least six weeks after registration.
- No refunds will be made to anyone who owes the University. Student-initiated resignations will not be completed until all money owed to the University is paid.
- Field service and transportation fees will be refunded on an individual basis upon recommendation of the department concerned.
- Reductions and increases of fees resulting from student schedule changes will be refunded or charged in accordance with the above schedule.
- All full-time students who become part-time students after the last day to receive funds will continue to be eligible for all student activity privileges.

- Students in good standing at the University, registered in any semester or summer term, who volunteer for military service or who are called to active duty in the armed services *before* the day midsemester examinations begin will have the University fee, nonresident fee, student technology fee, and student health service fee refunded. Students in good standing at the University who volunteer for military service, or who are called to active duty in the armed services *after* midsemester examinations begin, will be refunded 50 percent of the University fee, nonresident fee, and student health service fee. See also "Refund of Residence Hall Rent" in the Student Life & Academic Services section of this catalog.
- For information on the refund of other fees (such as housing, meal plans, etc.) refer to the section in this catalog pertaining to those fees.

Title IV program fund recipients resigning from the University without completing at least 60 percent of the enrollment period will be required to return all or part of the aid they received to the appropriate programs in the following order: Unsubsidized Federal Stafford Loans, Subsidized Federal Stafford Loans, Perkins Loans, PLUS (Parent) Loans, Graduate PLUS Loans, Pell Grants, Academic Competitiveness Grant (ACG), National SMART Grant and SEOG. Specific information regarding this refund schedule is available at www.lsu.edu/financialaid.

SCHEDULE FOR REFUND OF FEES				
Semester • Summer Term	100% Refund	90% Refund	50% Refund	No Refund
Fall or Spring Semester	Before class begins	First 6 class days	7 th –24 th class day	After 24 th class day
Summer Session A	Before class begins	First 3 class days	4 th –12 th class day	After 12 th class day
Summer Session B	Before class begins	First 3 class days	4 th –7 th class day	After 7 th class day
Intersessions	Before class begins	First class day	2 nd –4 th class day	After 4 th class day

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Undergraduate Degree Requirements • Regulations

LSU has the responsibility to protect its educational mission and the health and safety of its community and of the property therein, through regulating the use of University facilities and setting standards of scholarship and conduct for its students.

Because of its educational mission, the University also has the responsibility to carry out its disciplinary authority in a manner that contributes to the development and education of the student.

The disciplinary authority of LSU is derived from the provisions of the *Louisiana Revised Statutes*. These statutes established the Board of Supervisors and gave it the power to adopt rules and regulations necessary for the government of the University consistent with its mission and to adopt rules and regulations governing student conduct.

UNDERGRADUATE DEGREE REQUIREMENTS

STUDENT RESPONSIBILITY

Each student is responsible for completing all requirements established for his or her degree by the University, college, and department. It is the student's responsibility to learn these requirements; a student's advisor or counselor may not assume that responsibility.

Any substitution, waiver, or exemption from any established departmental or college requirement or academic standard may be accomplished only with the approval of the student's dean. Exceptions to University requirements, including the general education requirements, will be authorized only with the approval of the student's dean and the Office of Academic Affairs.

THE CATALOG THAT DETERMINES THE CURRICULAR REQUIREMENTS FOR AN UNDERGRADUATE DEGREE

The catalog that determines the curricular requirements for an undergraduate degree is the catalog that is in effect at the time of the student's entry. This catalog may be used for a maximum of 10 years provided enrollment is not interrupted for two consecutive semesters. Students whose enrollment is interrupted for two or more consecutive regular semesters may choose no catalog earlier than the one in force at the time of re-entry. Continuing students may elect a subsequent catalog when a new major is selected or when a catalog reflects a revised curriculum. Transfer students may use the catalog in effect at the time of their first entry into an accredited higher education institution, provided that the transfer to LSU is made within five years of the first entry.

The University will make a reasonable effort to honor the statement of curricular requirements in the chosen issue of the catalog. However, because courses and programs are sometimes discontinued and requirements are changed as a result of actions by accrediting associations and other external agencies, the University, having sole discretion, shall make the final determination whether or not degree requirements are met.

Note: Admission to LSU does not guarantee admission to a student's program of choice; many programs have highly selective admission criteria. Students follow the senior college program admission requirements in their catalog of entry into LSU. However, students transferring from another institution to LSU or from one major to another within the University must meet the program

admission requirements in the catalog in effect at the time of transfer. Students are encouraged to obtain the most up-to-date and accurate information about requirements and changes at www.lsu.edu/catalogs.

ACADEMIC REQUIREMENTS FOR OBTAINING A DEGREE

- A grade-point average of 2.00 ("A" = 4) on all work taken, except for those courses in which grades of "P," "W," or "I" are recorded, is required for graduation. In order to meet graduation requirements, students must have a 2.00 average on work taken at this University (all System campuses) as well as a 2.00 average on their *entire* college record.
- Candidates for a bachelor's degree must earn at least 25 percent of the total number of hours required for the degree at this University and meet the residence requirements of their college as stipulated in each college's and school's section of this catalog.
- After students have earned one-half of the applied credits required for a bachelor's degree, they may not use additional credits earned in a two-year college outside the LSU System to fulfill degree requirements, unless authorized to do so by the dean of their college or school.
- Students must complete a general education component of 39 semester hours in approved courses in six major areas: English composition, analytical reasoning, arts, humanities, natural sciences, and social sciences. Each student must demonstrate computer literacy in ways deemed appropriate by the faculty of the senior college in which the student is enrolled. The "General Education Requirements" section of this catalog specifies approved courses and the regulations governing applicable credit.
- Students should review specific curricula for precise degree requirements.
- In addition to these minimum requirements, students must meet all special regulations established by the faculties of their respective colleges and listed in each college's section of this catalog.
- Degrees, both honorary and earned, are conferred only by vote of the Board of Supervisors upon recommendation of the faculty of the University or the faculty of the appropriate college, school, or division of the University (all System campuses).

Comprehensive Academic Tracking System (CATS)

The **Comprehensive Academic Tracking System (CATS)** is designed to achieve academic success at LSU and assess student progress toward degree completion. CATS provides students with feedback on their progress in a major, and helps them to find the best academic path to complete their

degree. Each degree program has a Recommended Path that is the optimal path for graduation in four years (or five years for a small number of degrees).

Students are tracked for the fall and spring semesters only. Summer terms and intercession are not tracked and can be used by students to complete tracking requirements that have not been followed. Students can review the Recommended Paths online at <http://cats.lsu.edu/degreepath> and assess their progress through their degree audits available through their PAWS accounts.

Critical Tracking Criteria

The critical-tracking criteria have been identified by departmental advisors for each major as the most important requirements that students must meet to be making minimal progress and stay on track in their major. This criterion is outlined in the Recommended Path for each major.

Minimum Academic Progress

Students must meet the critical-tracking criteria within the Recommended Paths to demonstrate minimal progress toward degree completion. Critical-tracking criteria typically include both critical courses and minimum gpa requirements. The critical courses appear in bold in the Recommended Paths.

All **full-time** incoming students are monitored to determine if they have met the critical-tracking criteria, regardless of the number of hours earned by the student through dual enrollment or credit by examination. Students who are undecided about their major must follow the **critical-tracking criteria** established within one of three general areas of interest: Sciences and engineering, arts and humanities, or social sciences and will be advised by the Center for the Freshman Year and required to select a major before scheduling courses for their third semester.

Assessments of Academic Progress

Two assessments run during the semester to determine if students are making minimal progress in their degree programs. Students will receive a PAWS e-mail notification if they are found not to be making minimal progress during a semester. This e-mail contains a link directing them to their PAWS desktop. This link will bring them to the **CATS Status** tab under **Student Services**. The two assessments are as follows.

The **Mid-Semester Assessment** occurs prior to course scheduling for the upcoming semester. This assessment determines if students are taking the critical courses required that semester. If critical requirements are not being met, a hold is placed on the students scheduling for the upcoming semester.

The **End of Semester Assessment** occurs after final grades are submitted. This assessment checks for all critical requirements, including grades in courses and the gpa; a hold is placed on the students scheduling if critical requirements have not been met. If the students have already scheduled for the next semester, they cannot make any changes to their schedules until they see an advisor. Students not meeting minimum gpa requirements are advised to seek guidance from the Center for Academic

Success.

Note: Even though a student could possibly have two holds during the semester, this only counts for one total semester off-track.

Students Who Do Not Make Minimal Progress for Two Semesters

If a student is flagged for a second semester for not making minimal progress, in addition to the hold being placed on the student's schedule, **the student is required to meet with an academic advisor and select a new major that is more aligned with the student's interests and abilities.**

Resources Available to Help With Selecting a New Major

The Center for Academic Success offers study skills workshops and other sessions geared to improving overall academic performance and directing students to programs that would be a better fit for their needs and desires.

Career Services offers workshops and counseling assistance to help students select a new major.

UNDERGRADUATE AREAS OF CONCENTRATION

An *area of concentration* is an alternative track of courses within a major, accounting for at least 30 percent of the major requirements. Establishment of an area of concentration does not require prior approval by the Board of Regents. Areas of concentration are available within most undergraduate curricula. For additional information, see the curricula listed in the appropriate college chapter.

With the permission of the dean's office offering the concentration, students may earn multiple areas of concentration within a major. To do so, they must declare a primary area of concentration and fulfill all requirements for each area of concentration. Each declared area of concentration must include a minimum of six hours of course work that is unduplicated in any other area of concentration.

UNDERGRADUATE MINORS

A *minor* is that part of a degree program consisting of a specified group of courses in a particular discipline or field. Establishment of a minor does not require prior approval of the Board of Regents. The minor usually consists of 15 percent or more of the total hours required in an undergraduate curriculum. Minors are established by departmental, school, or college faculties. Once a minor has been established, students are subject to the following rules and procedures:

- When a student wishes to pursue a minor, the student must obtain permission from his/her dean's office.
- The course requirements for the minor, including prerequisites, as published in the *LSU General Catalog*, must be followed. Any substitutions in the minor must be approved by the faculty advisor in the department of the college offering the minor and the student's dean's office.
- A student following a particular catalog for the major field typically follows the minor requirements stated in the same catalog. However, exceptions must be approved by

the student's dean's office.

- A student must earn a minimum 2.00 gpa in the minor field, although some faculties may impose higher minimum gpa requirements.
- Courses used to satisfy the minor may not be taken on a pass/fail basis, except with permission from the department and the student's dean's office.
- Degree audits for minors will be verified by the college in which the student is enrolled. The minor should be declared no later than graduation check-out time. All course requirements for the minor must be completed by the time of graduation.

Earning Two Degrees, or One Degree with Two Majors

With the dean's approval, a student may enroll in two bachelor's degree programs concurrently, and thereby earn two degrees. A student also has the option to earn one degree with two majors listed on the transcript, provided all requirements are completed as of the same commencement.

A student may earn one degree, with two majors listed on the transcript, by completing the residence and academic requirements for each major and the degree program to which it belongs. The student may earn two degrees by, in addition, earning 30 hours more than required for the degree that requires the fewer number of hours.

If the two programs are in different colleges, then the student must be accepted for admission to both colleges and must adhere to the regulations of both colleges. The student must declare a home college, where registration will be initiated and permanent files maintained, and must maintain contact with the second college to ensure that satisfactory progress is being made toward the requirements of its degree program.

Requirements for a Second Baccalaureate Degree

Graduates who wish to obtain a second baccalaureate degree from this University must meet all academic and residence requirements set by the college(s) concerned and must earn a minimum of 30 semester hours beyond the work counted to meet the degree requirements of the first degree. Students may only earn one bachelor's degree at LSU with the same major field of study.

Procedural Requirements for Obtaining a Diploma

- *During the semester prior to the one in which graduation is anticipated*, candidates must request that the dean of their college evaluate their academic records for compliance with degree requirements. (Each college establishes its own degree requirements, which are listed in that college's section of this catalog.) At the time of degree application, candidates must indicate how they wish their names to appear on the diploma and in the commencement program.
- *At their last registration*, candidates must pay the graduation fee. Students should consult the current *Registration Schedule*

of Classes for the deadline to receive a refund of the graduation fee. Students who previously have paid a graduation fee, but who did not graduate at the expected time, must pay a \$20 duplicate diploma fee.

- All financial indebtedness to the University (all System campuses) must be cleared prior to graduation. Students who received Stafford loans will be notified via U.S. mail, to complete an online exit interview.

HONORS

Chancellor's Honor Roll

The Chancellor's Honor Roll is prepared each semester. Undergraduate students completing at least 15 college-level hours at LSU in the semester, with a semester gpa of 4.00 and no "I" grades for the semester, are included on the roll. Independent (correspondence) study courses will not be used to determine eligibility under the 15-hour requirement.

Dean's List

The Dean's List is compiled each semester. Undergraduate students completing at least 15 college-level hours at LSU in the semester, with a semester average of at least 3.50, but less than a 4.00, and no "I" grades for the semester, are included in the list. Independent study (correspondence) courses will not be used to determine eligibility under the 15-hour requirement.

University Honors

Students awarded the baccalaureate degree with honors must satisfy all requirements imposed by their colleges, schools, or departments. In addition, two gpas will be computed for each student: (1) on all work completed and (2) on all work completed at LSU (all System campuses). The lower of the averages will be used to determine eligibility for Latin honors as follows:

- *summa cum laude* if the gpa is at least 3.90,
- *magna cum laude* if the gpa is at least 3.80,
- *cum laude* if the gpa is at least 3.70.

Students in combined undergraduate, graduate, and professional curricula (medical, veterinary medicine, law, allied health) who earn more than 50 percent of their credits in an undergraduate college at LSU (all System campuses) with a gpa greater than or equal to 3.70 are eligible to receive their degrees with honors. To determine honors, the student's average at LSU (all System campuses) is weighted with the average furnished by the professional school.

University Medal

At each commencement, the University medal for "Highest Academic Achievement" is awarded to the undergraduate student (or students) graduating with the highest gpa, provided that more than 50 percent of the credits required for the degree has been earned at LSU-BR. Grade-point averages will be computed for (1) all work completed and (2) all work completed at LSU-BR, with the

lower of the two averages determining eligibility for the medal.

UNIVERSITY REGULATIONS

ENROLLMENT AT LSU

Registration

Students must complete registration, including payment of fees as stipulated in the "Undergraduate Fees and Expenses" section of this catalog, to attend class. The Office of the University Registrar will provide evidence of registration to instructors. *Students whose names are not on the official roster may not attend the class until officially registered for that class.*

Approval to register by the student's dean's office is required after the official "final date for adding courses for credit" specified in the Academic Calendar.

Identification Cards

When first enrolled in the University, students are issued permanent photo identification cards (Tiger Cards) at no cost. The ID card is the property of the University and must be retained for each subsequent term of enrollment.

Lost or stolen ID cards must be reported to the Tiger Card Office, 207 LSU Union, as soon as the loss or theft is discovered. Students who do not report lost or stolen cards in a timely manner may be held responsible for any charges incurred on the cards.

Students who alter or intentionally mutilate a University ID card, who use the ID card of another, or who allow others to use their ID cards may be subject to University discipline.

A charge is assessed to replace a lost, stolen, or mutilated ID card, even if the student is reenrolling after an interruption of study. If a replacement card is issued, the original card is no longer valid.

Addresses

Students are expected to keep the University informed of their current addresses. Students will be held responsible for communication from any University office sent to the most recent address(es) provided. Changes in address may be made by using PAWS, in deans' offices, or in the Office of the University Registrar.

Students may choose to withhold information from the Internet using PAWS and following the procedure listed.

Students' names, e-mail addresses, and telephone numbers are displayed on the PAWS directory. Students may withhold this information by using PAWS and following the procedure provided at that site.

First Class Meeting

Students who fail to attend the first class meeting without prior arrangement with the department may be dropped or required to drop the course to make space available to

other students.

Students are responsible for ensuring that they have been dropped from the course; otherwise, they are liable for a grade of "F."

Attendance

Students should observe any special attendance regulations stated by their college, school, division, or the instructor. The instructor may report a student's absences and the student may be placed on attendance probation by his or her dean. A student may be dropped from the college by violating the written terms of such probation.

An absence due to illness or other causes beyond a student's control will be excused when the instructor is convinced that the reason for absence is valid. The University's *Policy Statement 22* discusses approved trips, activities, and other instances of excused absences.

Instructors will excuse any student who is unable to attend or participate in class or an examination on a religious holiday supported by the student's religious beliefs. It is the student's responsibility to anticipate such conflicts and discuss this with the faculty member well in advance.

Adding or Dropping Courses

To avoid schedule changes after the official registration period, students are encouraged to plan each semester's course work in consultation with academic advisors. Any schedule changes should be made as soon as possible after the beginning of classes.

Students may drop courses through the sixth class day without receiving a grade of "W." Students may add courses through the eighth class day. A "W" grade will be entered on a student's record for any course dropped between the sixth class day and the final date for resigning from the University and/or dropping courses. Students should consult the academic calendar maintained by the University Registrar (www.lsu.edu/registrar) to determine deadlines each semester.

Within the limits of the following table, "W" grades do not affect a student's gpa; however, an excessive number reflects negatively on a student's record and involves substantial cost by way of tuition, books, room and board, and lost opportunities. To graduate in a timely manner, a student should complete at least 15 hours per semester and plan on attending at least one summer term.

Withdrawals cannot exceed the numbers allowed in the following table unless authorized by the dean of the student's college. Withdrawal allowances cannot be carried forward.

Hours Earned	Withdrawals Allowed Since August 2010
0-59.....	3
60-119.....	3
> 119.....	1

Students may drop all courses by withdrawing from the University according to the guidelines in the section, "Resignation from the University." A resignation will not count toward the number of drops permitted.

Courses dropped during summer term or intersession will not count toward the number of drops permitted. *Hours Earned* does not include advanced standing type credits with respect to this policy.

Undergraduate Enrollment in Graduate Courses

Qualified LSU seniors may register for *graduate credit* with the recommendation of the undergraduate college dean, the approval of the appropriate department chair, and approval of the dean of the Graduate School. Superior undergraduates may also register for graduate credit under the "Accelerated Master's Degree Program." Requirements and regulations for both programs are specified in the sections, "Graduate Credit for LSU Seniors," and "Accelerated Master's Degree Program," found in the chapter, "Graduate School • Professional Programs," in this catalog.

Refer to the "Course Numbering System" section in the chapter, "Courses of Instruction," in this catalog for additional information on enrollment for *undergraduate credit* in 4000- or 7000-level courses.

Registration of LSU Nonacademic Employees

Full time nonacademic (excluding faculty) employees, who have been employed at least one year, with approval from their department head or supervisor, may register for job-related undergraduate or graduate courses at any LSU System campus for up to six hours per semester and receive full tuition exemption. Only three hours per week of the approved job-related courses may be taken during work time without charge to annual leave. Continued participation in the tuition exemption program will be based on making satisfactory progress, as determined by the employee's supervisor. Satisfactory progress shall generally be interpreted to include completion of the course with a passing grade. (Please note that the provisions of this policy do not apply to specialized self-supported educational programs such as the Executive MBA Program. Employees should consult with the Chief Academic Officer on their campus to determine eligibility.)

Full-time nonacademic and other academic (excluding faculty) employees, during the first year of employment and with approval from their supervisors, may register, at their own expense, for a job-related course and be allowed to take the course during work time for no more than one hour per day up to three hours per week.

Cancellation of Registration

Students who drop all of their classes prior to the first day of class will have their registration canceled.

These students will receive a 100 percent refund (less the \$10 nonrefundable registration fee), *but they must apply to reenter the University before they can register for a subsequent semester or summer term.*

Resignation from the University

A student may voluntarily resign from the University beginning with the first day of class through the final day for resigning shown in the "Academic Calendar." Resignation is initiated in the office of the student's academic dean. The student must obtain a resignation form and file the form with the Office of the University Registrar *within 10 days* after it has been endorsed by each administrative office indicated on the form. *Resignation is not complete until the form is submitted to the Office of the University Registrar.*

Students who absent themselves from the University without leave and without official resignation will not be assigned "W" grades and, at the end of the semester, normally will receive grades of "F" in courses for which they are registered.

Students who withdraw from the University without approval, or who are dropped from the University for any reason, may be ineligible for readmission for a semester or longer.

ACADEMIC CREDIT

Year Classification of Students

The number of semester hours of credit earned determines a student's year classification, as follows:

- Freshman* • fewer than 30 hours
- Sophomore* • at least 30, but fewer than 60
- Junior* • at least 60, but fewer than 92
- Senior* • 92 or more
- Exception* • A student in a five-year program with at least 60, but fewer than 136 hours, is a junior; with 136 or more, a senior.

See "Course Numbering System" for regulations governing the level of courses students may take, based on their classifications.

Students are also classified as full-time or part-time in accordance with the following provisions.

Full-Time Students

- *Undergraduate*—To graduate in four years, a student should complete at least 15 hours per semester and plan on attending at least one summer term. Undergraduate students who carry 12 or more hours of resident credit in a regular semester or six or more hours in a summer term are considered full-time.
- *Graduate*—Full-time graduate students enroll in the Graduate School for at least nine hours of resident credit in the fall and spring (six hours in the summer term).

The benefits and privileges accorded to full-time students include: use of the Student Health Center; admission to certain athletic events on presentation of a valid University identification card; one subscription to *The Reveille* (newspaper), the *Gumbo* (yearbook), and the *Legacy Magazine*. Only full-time students will be approved for campus employment or may represent LSU in any athletic, dramatic, literary, musical, or other University organization.

Part-Time Students

Undergraduate students are classified as part-time if they schedule or drop to fewer than 12 hours of course work in a semester or fewer than six hours in a summer term. Criteria for part-time status in the Graduate School are available from the Graduate School.

Maximum Credit Load for Undergraduates

Each college establishes the number of semester hours of course work required in each year of its curricula. *Registration for more than 19 hours of degree credit in a regular semester requires the approval of the dean of the student's college. Dean's approval is also required for registration for more than 12 hours in the long summer session, more than six hours in the short session, or more than 12 hours in a combination of summer sessions. With dean's approval, students may schedule up to six hours in an intersession.*

Full-time students who are doing unsatisfactory work because of a heavy academic load may be required by their college dean to withdraw from one or more courses, provided such action does not change their full-time status. Such mandatory withdrawals do not count toward the student's number of permitted "W" grades.

Transfer Credit

The extent to which credit earned in other colleges and universities is accepted toward fulfilling degree requirements at LSU (including all campuses of the LSU System) is determined by the dean of college awarding the degree. **Students may not receive credit for work taken concurrently at another college or university without prior written approval from their academic dean.**

The Statewide Student Transfer Guide and Articulation System Matrices (Board of Regents' E-matrix) indicate transfer equivalences of courses among Louisiana's public colleges and universities and may be accessed through the Board of Regents' Web page at www.regents.state.la.us. The matrices are not all-inclusive; there are additional courses that articulate between campuses. Students are advised to contact their dean's office or the Office of Undergraduate Admissions if they are unclear as to whether academic credit at other institutions is transferable.

Only work that is acceptable by the offering institution as baccalaureate degree credit is recognized. Credit earned in two-year technical or terminal degree programs which, when completed, results in an "associate in applied sciences" diploma may be accepted to the extent that the courses parallel baccalaureate degree work here, as determined by the appropriate department and subject to the normally applicable conditions.

After students have earned one-half of the credits required for a degree, they may not use additional credits earned in a two-year college outside the LSU System to fulfill degree requirements, unless authorized to do so by the dean of the LSU college or school. A maximum of one-fourth of the credit required

for the degree may be earned through regionally accredited university correspondence study.

General Education Credit • Deans are to determine the applicability of transfer courses to a component of LSU's general education requirements.

If the college does not approve a transfer course for general education credit, the student may petition the Office of Academic Affairs for a decision.

Credit for Repeated Courses

A student may not repeat a course in which a grade of "C" or better has been earned unless the catalog description indicates that the course may be repeated for credit or the student's dean approves the repetition for some special reason. If a student registers for a course in violation of the above policy, the student's dean may deny degree credit for the course.

Unless otherwise stated in the course description, credit will be awarded only once for a course that is repeated. When students are permitted to repeat for credit a course previously taken in the LSU System, only the last grade determines acceptability of the course for degree credit. If a student receives a failing grade when repeating a course for which a passing grade had been previously earned, the student will lose the credit previously earned for the course. All instances of repeated courses are included in gpa calculations; however, degree credit may be awarded only for the last repetition.

Students who fail a course twice at LSU may not retake the course without approval from the dean of the student's major college. Appeals to enroll in a course after having failed the course twice need to be initiated immediately following the semester or summer term in which the second failing grade was earned, but no later than the first class day of the next semester or summer term enrolled.

Students who receive an "F" in a course must repeat the course in the *LSU System* in order to receive credit and quality points for it. With *prior* concurrence of the chair of the department in which the course is offered and the dean of the college in which the student is enrolled, credit and quality points may be approved in individual cases for courses repeated outside the LSU System.

Auditors

An *enrolled student* may be admitted to class as an auditor by obtaining written consent from the course instructor and the dean of the college offering the course. After scheduling the course, students must submit the required approvals to their deans' offices to change their enrollment from credit to audit. Other students who desire *only to audit* (and not to schedule any courses for credit) may obtain special enrollment forms from the Office of the University Registrar. Auditors will not receive credit for courses audited, although courses previously audited may later be taken for credit. See the section "Undergraduate Fees and Expenses" for a listing of fees for auditing courses.

Change in registration from audit to

credit or credit to audit requires permission from the instructor of the course and the student's dean. Approval for change from audit to credit must be obtained no later than the final date for adding courses for credit as shown in the "Academic Calendar." A request for a change from credit to audit must be submitted no later than the final date for dropping courses without receiving a grade of "W."

Correspondence (Independent) Study

A correspondence course grade will be posted to the transcript when the course is completed. If a student takes the final examination by the last day of the final examination period of a semester/summer term, the grade will be posted to that semester/term. If the final examination is taken after that date, the correspondence grade will be posted to the next regular semester or summer term. Correspondence grades will not be posted to Intersession. The grade will be used to determine academic action for registered students at the conclusion of that semester or summer term.

EXAMINATIONS

Credit Examinations

LSU System Credit • Students awarded advanced-standing or proficiency credit on other campuses within the LSU System can transfer that credit to LSU if the basis for awarding the credit is comparable to that on this campus. The student is responsible for requesting that the registrar on the other campus send an official transcript to the LSU Office of Undergraduate Admissions showing the credit earned.

Credit from Other Collegiate Institutions • Credit earned through departmental proficiency examinations administered by other accredited colleges/universities and listed on the official transcript is evaluated in accordance with policies applying to resident credit earned at those institutions. Grades earned through credit by examination are not included in the computation of the gpa.

Subject Examinations • Transfer students who have taken subject examinations in the College Level Examination Program (CLEP) or who have participated in the Advanced-Placement Program of the College Board should have their examination scores sent directly to the Office of Undergraduate Admissions for evaluation.

Transfer credit is not awarded for work or travel experience, except as validated through appropriate departmental proficiency examinations at LSU.

Credit by Examination • Credit by examination is limited to 30 semester hours and cannot be used to reduce the minimum residence requirement for graduation. With approval of the appropriate academic dean, credit earned through advanced-placement courses of the College Board will be excluded from the 30-semester-hour credit limit. Credit exams will not be used to meet the 15-hour requirement in determining honors or dean's list eligibility.

Proficiency Examinations • A limited number of proficiency examinations are

offered through academic departments. Proficiency tests are considered equivalent to final examinations in college-level courses. Ordinarily, students must obtain permission from their academic deans and from the chairs of the departments offering the courses prior to taking the examinations. Students may apply for these tests at any time after they have been admitted to the University. Tests are administered subject to the conditions specified below.

- The student must have been admitted to the University (includes all System campuses) and must be in good standing.
- To initiate the examination, permission must be obtained from the appropriate dean and the chair of the department offering the course. After authorization is granted, the Office of the University Registrar will issue an Advanced-Standing or Proficiency Exam Grade Report upon payment of the required fees. No instructor may give a proficiency examination until he/she has received the official grade report.
- Students must pay a fee of \$20 for each examination in which credit by proficiency examination is being sought; an additional \$20 processing fee is assessed for each examination administered by the Center for Assessment & Evaluation.
- If a grade of "C" or higher is earned on the examination, a mark of "P" and regular credit in the course are entered on the student's transcript. If a grade lower than "C" is earned, only the fact that the examination has been attempted will be recorded; credit will not be allowed. A student may take a proficiency examination in a particular course only once.
- Course credit will be posted to the semester that corresponds to the date entered in the date field on the Advanced-Standing or Proficiency Exam Grade Report, provided the student is enrolled.
- Students are not permitted to schedule proficiency examinations in courses in which they have earned unsatisfactory grades.
- Credit earned through proficiency examinations will not be used in computing the student's gpa.

Midsemester Examinations

The "Academic Calendar" shows the midsemester examination period. Faculty must report midsemester grades in all undergraduate courses. These grade sheets are available through PAWS.

Concentrated Study Period

The five-day period during the fall and spring semesters (Wednesday through Sunday) immediately preceding the week of final examinations will be set aside as a concentrated study period. During this time, no extracurricular student activities, such as social and athletic events, will be held on or off campus. Graded required course work (including exams, quizzes, and homework) may count for a total of at most 10 percent of the student's grade in the course.

Class projects that have been scheduled

and placed on the syllabus within the first two weeks of the academic semester are exempt from the 10 percent limit. The assumption is that work on such a project will take place throughout the semester. Laboratory courses are also exempt from this policy.

Any other exceptions must receive prior approval from the Office of Academic Affairs. Students should report any violations of this policy to the Office of Academic Affairs.

Final Examinations

The final examination period will be comprised of six days (Monday through Saturday). Final examinations are required in all courses. When a final examination is inappropriate because of the nature of the course, exceptions to this requirement may be made upon approval of the appropriate department chair and dean/director.

Final examinations must be given during the published dates for the final examination period.

A final examination is defined as the last in a series of major tests specified in the course syllabus. It need not be comprehensive. If the course syllabus does not call for a final examination, the last major unit examination is to be considered the final examination and must be given during the final examination period. When a series of major tests is scheduled in addition to the final examination, the last of the major test series may not be given during the concentrated study period. Exams and performances in laboratory-type courses may be given or required during the concentrated study period.

A student who, because of illness or other valid reason, is *absent* from any final examination may take a special examination only with authorization of the dean of the student's college.

GRADING SYSTEMS

Faculty members must provide the University and the student with an individual evaluation of each student's work. At the beginning of each semester, faculty members must distribute written course syllabi in all courses, graduate and undergraduate, clearly stating the relative weight of the component factors of the final grade. Additionally, in 4000-level courses in which instruction of undergraduates for undergraduate credit and graduate students for graduate credit is combined, syllabi should clearly set forth any different expectations of performance by students in the two groups (beyond the expectation of a 2.00 minimum gpa for undergraduates and a 3.00 minimum gpa for graduate students).

On request, faculty should provide to students a review of all graded material, including final examinations, that contributed to the course grade and a review of the method by which the grade was determined. *Final grades may not be lowered to reflect a student's poor class attendance.*

Unreturned examinations and other graded material should be kept on file for at least six months following the end of the academic term. Faculty members who leave the campus during this period should file all course material in their departmental offices.

It is the right and responsibility of *faculty members* to determine and assign the grade for each student enrolled in their courses beyond the final date for withdrawing with a "W," as specified in the "Academic Calendar." The instructor's assignment of a grade is final; the grade may not be changed or altered except through the academic appeal procedure, following appropriate investigation.

In extraordinary circumstances that make it impossible for the instructor to fulfill the responsibility of determining a course grade, the department chair shall assign the grade. In such a case, the department chair may elect to award the grade of "P" (Pass). This "P" grade would be excluded from the normal limits on use of the pass-fail option indicated below. *Re-examination, special examinations, extra-credit projects, or extra laboratory hours cannot be made available to an individual student unless the same options are available to the entire class.*

Undergraduate Grades

- Grades of "A," "B," and "C" are assigned for satisfactory work. A grade of "A" indicates distinguished mastery of the course material; a grade of "B," good mastery; a grade of "C," acceptable mastery. A grade of "D" indicates minimally acceptable achievement for credit; in some colleges a grade of "D" in certain courses does not allow that credit to be applied toward the degree. A grade of "F" is failing. A grade of "P" (pass) denotes satisfactory completion (grade of "C" or better) of advanced-standing or proficiency examinations, pass-fail option courses, and certain other courses. A grade of "NC" (no credit) indicates that no credit is earned.
- **Grading scale**—A student's gpa is determined by the ratio of quality points earned to semester hours attempted. Quality points are assigned to letter grades using the following scale: "A" = 4 quality points; "B" = 3 quality points; "C" = 2 quality points; "D" = 1 quality point; "F" grades carry no quality points. Grades of "P," "W," "I," and "NC" are not used in computing the official gpa and, therefore, do not carry quality points. All courses taken for which grades of "A," "B," "C," "D," or "F" are assigned, including repeated courses, are considered in calculating gpas.
- **"W" grades**—A "W" will be entered on a student's record for any approved course dropped within the dates specified in the "Academic Calendar." In extraordinary cases, upon written petition, the dean of the student's college may authorize a resignation and/or a drop from a course after the last date specified.
- **"I" grades**—Work which is of passing quality but which, because of circumstances beyond the student's control, is incomplete, may be marked "I" (incomplete). An "I" grade may be assigned for undergraduates only if the instructor receives appropriate authorization from the dean of the college in which the student is enrolled. If authorization is not received, the instructor is to consider the delinquent work to be of failing quality, and an "I" grade may not be assigned. *It is the responsibility of the student to initiate the request for the academic dean's authoriza-*

tion. An "I" grade will be converted to "F" unless it is removed during the next regular semester in which the student is in residence in the LSU System prior to the deadline for adding courses for credit, as specified in the "Academic Calendar." In extraordinary cases, the dean of the student's college may authorize that the "I" grade become permanent, or that an extension of time for removing the grade be allowed.

- Grades earned in courses offered by the Hebert Law Center, the School of Medicine, the School of Dentistry, and the School of Veterinary Medicine shall not be considered in computation of the gpa of an undergraduate student unless approval is given by the dean or director of the student's college/school to permit the student to use the professional courses as electives or to pursue a combined curriculum.

Computation of the Grade Point Average

For all academic purposes, gpas shall be specified to three significant figures (two decimal places), with the last figure to reflect rounding from a four-significant-figure average (three decimal places) where possible. If the third figure after the decimal point is equal to or greater than five, upward rounding shall occur. If the third figure after the decimal point is less than five, it shall be dropped, regardless of what the fourth or subsequent figures may be. Thus, 3.9550 becomes 3.96, and 3.9549 becomes 3.95. In calculations to determine relative rank in class, a student's average may be carried to three decimal places. Regardless of the results of rounding, no student shall be deemed to have graduated with a "4.00" average if any grade other than "A" or "Pass" for courses completed appears on the transcript.

Any gpa cited to only one decimal place (as 2.0) shall be construed to mean, mathematically, a figure accurate to two decimal places (as 2.00), regardless of the text.

Pass-Fail Option for Undergraduates

Some courses have been approved to be graded pass-fail for all students enrolled. In courses with regular grading, students may petition for the pass-fail grading option, subject to the guidelines indicated below. In all undergraduate courses with pass-fail grading, the grade of "P" will be given for work of "C" quality or better. The grade of "F" will be given for work below "C" quality.

Students may be registered in several courses regularly graded pass-fail during a given semester and still elect to take an additional course under the pass-fail option program.

Courses passed with a grade of "P" may be offered for degree credit, but the grade will not be considered in computing the gpa. An "F" in a pass-fail course will be treated as any other "F," both with regard to credit earned and to gpa calculation.

Limited use of a pass-fail option is permitted at the discretion of the individual colleges and schools, subject to the following

policies.

- The pass-fail option is available only to those students whose gpa in the LSU System is 2.50 or better.
- The pass-fail option is allowed only for unrestricted electives or other courses approved by the student's major department.
- No more than 12 semester hours of degree credit in the pass-fail option program are permitted; pass-fail enrollment may not exceed one course per semester, excluding those courses normally graded pass-fail.
- Enrollment under the pass-fail option program must have the prior approval of the instructor, the chair of the student's major department, and the dean of the college in which the student is enrolled.
- Through the last day to add courses for credit, students may, with appropriate approval, change from pass-fail to graded status and vice versa. No change in the grading option may be made after the last day for adding courses for credit.

For information about the pass-fail option for graduate students, see the "Graduate School- Professional Programs" chapter.

Pass-Audit Option

The pass-audit option is available only for high school students who participate in a dual enrollment course. This option is not available for any on-campus courses or instruction. Dual enrollment courses can be approved by the respective on-campus department and the dean to be graded pass-audit. In all dual enrollment courses with pass-audit grading, the grade of "P" will be given for work of "C" quality or better. At the end of the course, the enrollment status of high school students whose work is below "C" quality will automatically be reflected as "AU," or audit. Auditors will not receive credit and courses previously audited may later be taken for credit. Courses passed with a grade of "P" may be counted for degree credit, but the grade will not be considered in computing the student's gpa. Students are permitted to earn a total of no more than 12 semester hours of degree credit in pass-audit dual enrollment courses. For students admitted to a pass-audit dual enrollment course, a change from pass-audit to graded status is not allowed.

Grade Reports

Final and midsemester grades are available through PAWS. If there is a change in their academic status, provided their financial accounts with the University (all System campuses) are current, reports of final grades are mailed to students at the end of each semester and summer term. Other students may request, via PAWS, that the Office of the University Registrar mail them reports of their final grades.

Transcripts

Upon written request and via PAWS, former and currently enrolled students may obtain complete transcripts of their academic records, provided they are current in their financial obligations to the University (all

System campuses). Requests must include the signature of the student. Partial transcripts are not issued. Normally, two days of processing are required after the transcript request is received. At the beginning or end of a semester, considerably more time is required. Telephone requests for transcripts cannot be honored.

Privacy of Student Records

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their educational records:

- The right to inspect and review the student's educational records within 45 days of the day the University receives a request for access.

Students should submit to the University Registrar, academic dean, Dean of Students, or other appropriate University official, written requests that identify the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

- The right to request the amendment of the student's educational records that the student believes are inaccurate or misleading.

Students may ask the University to amend a record that they believe is inaccurate or misleading. They should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading.

If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of the right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

- The right to consent to disclosure of personally identifiable information contained in the student's educational records, except to the extent that FERPA authorizes disclosure without consent.

One exception that permits disclosure without consent is disclosure to school officials with legitimate educational interests. All students' educational records are open to the Chancellor, the Executive Vice Chancellor and Provost, the vice chancellors, the academic deans and directors, and the Dean of Students.

In addition, the following individuals are also LSU officials:

- A person employed by the University in an administrative, supervisory, academic, research, or support staff position, including health and medical staff, teaching assistants, and student assistants
- A person appointed by the Board of Supervisors
- A person employed by or under contract to the University to perform a special task, such as a University attorney

- Appropriate administrators or staff of the LSU Alumni Association, Tiger Athletic Association, and LSU Foundation who require access to educational records to perform their legitimate educational duties, when such records are needed in the furtherance of the educational or business purposes of the student or University

- A person employed by the LSU Police Department

A school official has a legitimate educational interest if the official acts in the following capacities: performance of a task that is specified in his or her position description or contract agreement, related to a student's education or to the discipline of a student; provision of a service or benefit relating to the student or the student's family; or maintenance of the safety and security of the campus.

Upon request, the University discloses educational records without consent to officials of another school in which a student seeks to enroll, intends to enroll, or has enrolled, and agencies and offices administering financial aid.

- The right to file a complaint with the U.S. Department of Education concerning alleged failures of LSU to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-4605

Students' FERPA rights go into effect at the time they register.

FERPA also affords parents of dependent students (as defined by section 152 of the Internal Revenue Code of 1954) the right to inspect and review the students' records. Requests to review dependent students' records should be made to the Office of the University Registrar.

Copies of the University's *Policy Statement 30* concerning FERPA may be obtained on the LSU Web site and from the Office of the University Registrar. For additional information regarding FERPA, contact the Office of the University Registrar at 225-578-1696 or registrar@lsu.edu.

Directory information is defined as the student's name, local address, telephone number, home address, and e-mail address; date and place of birth, major field of study and classification; activities and sports; weight and height (members of athletic teams); dates of attendance; degrees, awards, and honors received; and the most recent educational institution attended by the student.

Students who wish to withhold information in these categories should complete the appropriate form available from the Office of the University Registrar indicating that directory information is not to be released. The hold will remain in effect until the student requests that it be lifted. Only currently enrolled students may place a hold on the release of directory information.

UNIVERSITY SCHOLASTIC REQUIREMENTS

Definitions

Gpa • Grade point average is calculated by dividing the total number of quality points earned by the total number of semester hours attempted. For example, a student who has attempted 46 hours and has earned 122 quality points has a gpa of 2.65.

Cumulative gpa • The cumulative gpa is calculated on work attempted at all colleges and universities attended.

LSU System gpa • The LSU System gpa is calculated on all work attempted at LSU and at any other institution in the LSU System.

General

The following university scholastic requirements apply to all students, except those enrolled as "visiting" students. For details regarding the use of correspondence study grades to determine scholastic standing, refer to the "Undergraduate Admissions & Student Aid" section of the catalog. Courses taken at Southern University through the LSU-SU Cooperative Program, and Baton Rouge Community College through the LSU-BRCC Cross-Enrollment Program, are recorded as transfer credit. Credit taken through these co-op programs are calculated in only the cumulative gpa.

A student on University Scholastic Warning, Probation or Drop will have a notation of the academic status recorded on the official LSU transcript.

University Scholastic Warning

At the end of the fall or spring semester, intersession, or summer term, students will be placed on University Scholastic Warning if their gpas are one to nine quality points below a 2.00 on all work attempted or on all work attempted in the LSU System. A notation to that effect will be recorded on their transcripts. Students will remain on University Scholastic Warning until they bring their gpas up to 2.00, or are placed on University Scholastic Probation.

University Scholastic Probation

At the end of the fall or spring semester, students will be placed on University Scholastic Probation if their gpas are 10 or more quality points below a 2.00 on all work attempted or on all work attempted in the LSU System. Students will remain on University Scholastic Probation until they have cumulative averages of 2.00 or higher on all college work attempted *and* on all work attempted in the LSU System.

Students who have been removed from University Scholastic Probation will be placed on probation again at the end of any fall or spring semester in which their LSU System or cumulative averages are less than 2.00.

University Scholastic Drop

Students on University Scholastic Probation will be dropped from the University

at the end of any fall or spring semester if their semester average is less than 2.00 on either all work attempted or on all work attempted in the LSU System.

Students dropped for university scholastic deficiency may enroll, with permission of their dean, in the summer term at LSU. If their quality point deficits are totally removed during the summer term, they may petition their dean to allow them to enroll for the fall semester. Students who remove their quality point deficiency and complete all degree requirements may not graduate at the end of the summer term. They must register for *degree only* during the subsequent fall semester and receive their degrees at December Commencement.

Students in University Scholastic Drop may not apply toward LSU degree requirements credit earned at any institution, including LSU correspondence study, during the period of their ineligibility to enroll at LSU.

The Summer Term/Intersessions

Students cannot be placed on University Scholastic Probation or dropped from the University on the basis of work taken during the summer term or an intersession. They can, however, be placed on University Scholastic Warning status.

Work taken during the summer term can result in students being removed from University Scholastic Warning status, Scholastic Probation, or Scholastic Drop status.

Work taken during an intersession can result in students being removed from University Scholastic Warning or University Scholastic Probation.

Re-entry after Scholastic Drop

Students dropped for the first time for academic reasons can be considered for readmission when they have been out of the University (all LSU System campuses) for one regular semester.

Students dropped the second or subsequent time for academic reasons must remain out of the University (all LSU System campuses) for one calendar year.

In either instance, readmission may be delayed or denied at the discretion of the dean of the college in which the student desires to enroll. Students entering the University after University Scholastic Drop will be admitted on University Scholastic Probation. Reinstatement after a University Scholastic Drop (see "Appeal of Academic Ineligibility to Enroll") will not remove the drop notation from the transcript.

COLLEGE SCHOLASTIC REQUIREMENTS

Students may also be placed on College Scholastic Probation or College Scholastic Drop status on the basis of unsatisfactory progress toward meeting the specific requirements of their academic program. College Scholastic Requirements differ from University Scholastic Requirements in that they apply only while a student is enrolled in the college that imposed the academic action. College Scholastic Probation and College

Scholastic Drop are not noted on the official LSU transcript. Students should refer to the college sections for regulations regarding college academic action.

Academic Bankruptcy

Under specified conditions, undergraduate students who have interrupted their college careers for a period of at least five consecutive calendar years may, at the time of application for admission to the University, declare academic bankruptcy. Under this policy all college work taken at an earlier date is eliminated from computation of the grade-point average *and cannot be applied toward a degree at LSU*. Such work will remain on the student's scholastic records and transcripts, but *will not* be used in the computation of the grade-point average for honors or the University Medal. It may, however, be used to compute the grade point average for admission to graduate and professional study.

Students qualifying for academic bankruptcy will be admitted on scholastic probation. Details of this policy may be obtained from the Office of Undergraduate Admissions.

GRADE APPEALS

Appeals of final grades must be initiated by the student by requesting in writing or actually attending a meeting with the faculty member who assigned the grade at issue within 30 calendar days after the first day of classes in the next regular semester. The procedure is as follows:

- The student must meet with the faculty member concerned to discuss the situation and attempt to arrive at a solution. Although each may have an advisor present, it is believed that under most circumstances, the meeting will be more productive if only the student and the faculty member are present. To the extent an advisor is utilized at this or any stage of the procedure, the advisor is not allowed to argue, advocate, make statements, present information, question witnesses, or raise objections on behalf of either party.

If the faculty member is on sabbatical leave or is otherwise unavailable, his/her place will be taken by a faculty member appointed by the department chair or his/her designee. The faculty member must inform the student of his/her decision within seven calendar days. If the decision reached requires change in an official University record, the faculty member must comply with all University regulations and procedures necessary to accomplish the change.

If an administrative officer (department chair, dean, executive vice chancellor and Provost) is the faculty member who assigned the grade that is appealed, that officer should recuse himself or herself from the appellate process in any capacity other than as the faculty member who assigned the grade; his or her place in the procedure will be taken by a faculty member appointed *ad hoc* by the executive vice chancellor and provost or the chancellor, as appropriate.

A change of grade is accomplished by

filing a "Grade Correction Report." A satisfactory reason for the change is "academic appeal." The department chair and/or the student's dean (dean of the college in which the student is enrolled) may request documentation of the facts of the matter to facilitate any decision with respect to approval of the grade change.

- If the matter is not resolved between the student and the faculty member, and the student wishes to pursue the appeal, he or she shall make a written request to the chair of the department in which the course was taught asking for a meeting of the department chair, the faculty member, and himself or herself. The faculty member will provide the name of the appropriate department chair. The written request should clearly state the purpose of the meeting and should indicate the faculty member's name; however, it should *not* go into detail as to justification for the appeal. This request must be submitted within 45 calendar days after the first day of classes of the next regular semester.

The department chair shall arrange a meeting within 14 calendar days from the date of receipt of the request. At this meeting, both the student and the faculty member may be accompanied by an advisor. At the close of the meeting, or within seven calendar days thereafter, the department chair shall make a decision. If a decision is made at the close of the meeting, it is to be given orally to all present. If the matter is taken under advisement, the department chair shall inform all parties, including the student's dean, of his or her decision in writing. If the decision reached requires change in an official University record, the faculty member must comply with all University regulations and procedures necessary to accomplish the change.

- Either the student or the faculty member may appeal the decision reached by the department chair to the dean of the college in which the department offering the course is located. The dean's name will be furnished by the department chair. Appeals concerning courses numbered 8000 or above should be directed to the dean of the Graduate School. The appeal must be in writing and must be submitted within 14 calendar days after notification of the department chair's decision. The appeal must contain the following information: (1) a statement of the action(s) complained of; (2) the relief requested; and (3) a specific statement of the reasons supporting the relief sought.

Upon receipt of the appeal, the dean must promptly forward copies to the department chair and the other party concerned, who must promptly reply with *individual written statements* supporting their positions. Copies of the written replies must be forwarded to the appellant.

When the replies have been received from the department chair and the other party, the appellant may choose one—and only one—of the following options: (1) the dean will decide the question on the basis of the written appeal and the written replies from the other party and the department chair; (2) The dean will meet with all parties concerned, who may be accompanied by advisors if desired, and,

after discussion, reach a decision; (3) The student, the faculty member, or the department chair may request that the dean refer the appeal to a hearing panel for its recommendation. Such a request must be made when the appeal is submitted to the dean.

Hearing panels to consider grade appeals will be appointed by the dean and shall be composed of three faculty members selected by the dean, with no more than two from the same department, and two students appointed by the president of the college's student governing body. The dean should designate the chair of the panel.

The panel shall hold a hearing with the department chair, the faculty member, and the student, each of whom may be accompanied by an advisor. After deliberation, the panel will make its recommendation in writing to the dean. Copies of the recommendation, and the dean's final decision, must be given to all parties, including the student's dean.

Regardless of the method used, the dean must make his or her decision within a reasonable time from the date of receipt of the appeal. The decision must be written, listing the reasons supporting the decision; copies must be given to all parties, including the student's dean. If the decision requires change in an official University record, the faculty member must comply with all University regulations and procedures necessary to accomplish the change.

- Any party to the appeal who believes that a *serious procedural error* occurred or that there was an *abuse of discretionary authority* in reaching the decision, he or she may file with the executive vice chancellor and provost a written petition for review. This petition, which must be filed within seven calendar days after receipt of the decision, must contain a complete statement of the alleged serious procedural error, or examples of abuses of discretionary authority complained of, and also must contain reasons for the relief sought. The petition must be accompanied by all documents produced in the appeal. Copies should be sent to all parties to the appeal and to the student's dean.

The executive vice chancellor and provost or the provost's designee shall decide within 30 calendar days after receipt of the petition whether further action should be taken. In reaching this decision, he or she may ask other parties to the appeal to make written replies to the request for a review, or these parties, on their own, may make written replies. If the decision is reached that a review is not justified, the student and all other parties, including the student's dean, will be so notified.

If the executive vice chancellor and provost or his or her designee decides to respond favorably to the petition for review, he or she may hold a formal meeting with all parties and their advisors, interview any persons who may have relevant information, and/or review and consider any related records or documents.

Once a decision is reached, the executive vice chancellor and provost will notify all parties, including the student's dean, of his

or her decision. The decision of the executive vice chancellor and provost shall conclude the matter, subject to the right of the chancellor to review the case. The chancellor will consider the case only on the basis of a petition for review following the procedure outlined above.

This grade appeal procedure is an academic process designed to provide students with the ability to appeal a final grade only. Interim grades and grades on particular exams, papers, projects, and other assignments may only be appealed to and discussed with the faculty member who assigned the grade. Any questions, regarding the interpretation or implementation of the grade appeal procedures shall be resolved by the executive vice chancellor and provost or his or her designee.

Appeal of Academic Ineligibility To Enroll

An undergraduate student dropped from the University because of scholastic deficiency may appeal the ineligibility based on extenuating circumstances. Such appeals must be submitted to the office of the student's dean at least seven calendar days prior to the beginning of the semester/summer term in which the students wishes to enroll. The appeal should be in the form of a letter to the dean, accompanied by documentation of the extenuating circumstances.

Appeals may be reviewed by the dean or, at the option of the dean, by a college committee established for that purpose. In the latter case, the committee will make a recommendation to the dean. Final authority in the college rests with the dean. If the appeal is approved:

- the student is eligible to enroll at LSU on academic probation for the next semester/term;
- the dean may set conditions based on the student's situation, which may include specific academic requirements the student must meet. The student will be informed of any conditions in writing; and
- the student's transcript will carry a notation that the student was dropped but reinstated, based on appeal.

If the dean denies the appeal, the student may submit it to the Office of Academic Affairs for review, along with a statement of the reasons why the Office of Academic Affairs should consider the appeal. Final authority rests with the executive vice chancellor and provost.

OTHER RULES AND REGULATIONS

Standards of Conduct

Accountability procedures for students are outlined in the *Code of Student Conduct*. Rules and regulations governing student organizations, activities, and conduct may be accessed at www.lsu.edu/deanofstudents. The Office of the Dean of Students has administrative responsibility for coordinating all University accountability procedures for students. Students who are charged with violations are provided prescribed rights, which include the right to a notice and a hearing. Additional details regarding standards of conduct may be found at: www.lsu.edu/studentadvocacyandaccountability

General Education Requirements

The University's General Education requirement represents a conviction on the part of the faculty that all students need to reason logically, communicate effectively, and relate to the world around them. While courses completed in a field of study develop specific knowledge and skills in a chosen profession, general education courses not only enhance awareness of the world and the people in it, but also foster an appreciation of the arts and humanities and provide a basic understanding of mathematical and scientific principles.

General education courses are required to ensure that all students receive a broad-based education that enhances their ability to describe, interpret, and analyze their world. The primary aims of the general education requirement are to create strong citizens, instill a life-long desire for learning, and enrich the human experience. For more information regarding the goals of General Education at LSU, please follow the links on the University Web site through the Faculty Senate to General Education.

To fulfill these requirements, students must complete 39 hours of course work in six major areas:

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- English composition (six hours)
 - Analytical reasoning (six hours)
 - Arts (three hours)
 - Humanities (nine hours)
 - Natural sciences (nine hours)
 - Social sciences (six hours)
-

REGULATIONS

- Students must complete the 39-hour general education requirement *prior to graduating from LSU*. It is recommended that students complete the requirement during their first four semesters at the University.
- Only those courses on the approved list below, *and their honors equivalents*, may be used to satisfy the general education requirement.
- No more than six hours of credit taken through *correspondence study* may be applied to a student's general education requirement.
- An entering student may receive *three or six hours of credit in English composition* on the basis of ACT scores and/or performance on approved placement tests.
- An entering student may receive credit for *one or more of the required mathematics courses* on the basis of placement test scores.
- *Advanced placement and advanced standing credit* may be used to satisfy the general education requirement.
- General education courses *will be graded on the "A," "B," "C," "D," "F" system*. No courses taken on a pass/fail basis will count toward the general education requirement.
- In addition, each student must demonstrate *computer literacy* in ways deemed appropriate by the faculty of the senior college in which the student is enrolled.
- *Appeals for an exception to the general education requirements*: A 'request for an exception to the general education requirement' must be submitted to the dean of the student's college using the appropriate form. Scheduling difficulties or allegations of poor advising typically do not constitute a reasonable basis for an appeal. The dean's evaluation as well as the student's request must then be submitted to the Office of Academic Affairs. A final decision will be made after consideration by the Faculty Senate Committee on General Education. Students are strongly encouraged to obtain a decision prior to registering for a LSU course intended to substitute for an approved general education course.

TRANSFER COURSE APPROVAL

Deans are to determine the applicability of transfer courses to a component of LSU's general education requirements.

If the course is deemed to be applicable, and there is no equivalent LSU course, deans are asked to enter a course substitution on the Student Records and Registration database, indicating that the course is accepted for general education credit. Documentation concerning this decision should be kept on file in the college.

If it is determined that a course is equivalent to an LSU course, colleges should notify the Office of Undergraduate Admissions so the Admissions Transfer Table can be updated.

If the college does not approve a transfer course for general education credit, the student may petition the Office of Academic Affairs for a decision.

REGENTS' STATEWIDE ARTICULATION

LSU participates in the Board of Regents' Statewide Articulation Consortium. Students who plan to transfer to another Louisiana public institution should consult the Office of Undergraduate Admissions for information about the course transfer agreement.

GENERAL EDUCATION COURSES

In the list of courses in the "Courses of Instruction" section of this catalog, general education courses are designated by a star (★) placed before the course number.

AREA/COURSES	SEM. HRS.
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I. ENGLISH COMPOSITION	6
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All students must complete 6 credits in English composition, one course from each group listed below.

Group one:

English	
1001 or 1004 (for international students only)	
English Composition	3

Group two:

English	
1005 (for international students only)	
English Composition	3
2000 English Composition	3

Honors	
2000 Critical Analysis	3
2002 Seminar in Roman & Medieval	
Civilizations	3
2012 The 19 th Century	3
2013 The 20 th Century	3
2021 Colloquium in the Arts	3

II. ANALYTICAL REASONING	6
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General education analytical reasoning courses must come from the following list. All students must have credit in at least one Mathematics course.

Computer Science	
1240 Statistics and Graphics with MATLAB	3

Experimental Statistics	
2201 Introduction to Statistical	
Analysis	4

Mathematics	
1021 College Algebra	3
1022 Plane Trigonometry	3
1023 College Algebra and Trigonometry ...	5
1029 Introduction to Contemporary	
Mathematics	3
1100 The Nature of Mathematics	3
1431 Calculus with Business and	
Economic Applications	3
1441 Calculus with Application	
to Technology	3

1550 (1551) Analytic Geometry and Calculus I.....	5		
1552 (1553) Analytic Geometry and Calculus II.....	4		
1554 Calculus II for Life Sciences.....	4		
Philosophy			
1021 Introduction to Logic.....	3		
2010 Symbolic Logic I.....	3		
III. ARTS.....	3		
Architecture			
2401 Appreciation of Architecture.....	3		
3005 History of Architecture I.....	3		
3006 History of Architecture II.....	3		
Art			
1001 Introduction to Fine Arts.....	3		
Art History			
1440 Historical Survey of the Arts.....	3		
1441 Historical Survey of the Arts.....	3		
2401 Art of the Ancient Near East and Egypt.....	3		
2411 Survey of Asian Art.....	3		
2470 Survey of 20 th Century Art.....	3		
Honors			
2021 Colloquium in the Arts.....	3		
Interior Design			
1051 Introduction to Interior Design.....	3		
3741 History of Interior Design and Decoration I.....	3		
3742 History of Interior Design and Decoration II.....	3		
Landscape Architecture			
1201 Introduction to Landscape Architecture.....	3		
Music			
1751 (1755) Music Appreciation.....	3		
1799 Rudiments of Music.....	3		
2000 History of Jazz.....	3		
2053 Survey of Music History I.....	3		
2054 Survey of Music History II.....	3		
Theatre			
1020 (1021) Introduction to Theatre.....	3		
2028 (2128) Introduction to Dramatic Literature.....	3		
IV. HUMANITIES.....	9		
<i>Students must take <u>three</u> humanities courses to fulfill this requirement.</i>			
African and African American Studies			
1002 Elementary Swahili Language and Culture II (<i>see also SWAH 1002</i>).....	4		
2003 Intermediate Swahili Language and Culture III (<i>see also SWAH 2003</i>).....	4		
2004 Intermediate Swahili Language and Culture IV (<i>see also SWAH 2004</i>).....	4		
Arabic			
1102 Beginning Arabic.....	4		
2101 Intermediate Arabic.....	4		
2102 Intermediate Arabic.....	4		
Chinese			
1102 Beginning Mandarin Chinese.....	4		
2001 Intermediate Mandarin Chinese.....	4		
2002 Intermediate Mandarin Chinese.....	4		
2070 Chinese Cinema.....	3		
3801 Traditional East Asian Literature.....	3		
3802 Modern East Asian Literature.....	3		
Classical Studies			
3020 Classical Epic in Translation.....	3		
3032 Greek and Roman Tragedy in English Translation.....	3		
3040 Greek and Roman Comedy in English Translation.....	3		
3090 Comparative Mythology (<i>See also REL 3090</i>).....	3		
Communication Studies			
1061 Fundamentals of Communication.....	3		
2040 Introduction to Performing Literature.....	3		
2060 Public Speaking.....	3		
Comparative Literature			
2201 Introduction to World Literary Traditions (<i>see also ENGL 2201</i>).....	3		
2202 Introduction to Modern World Literature (<i>see also ENGL 2202</i>).....	3		
English			
2024 (2824) Critical Strategies.....	3		
2025 Fiction.....	3		
2027 Poetry.....	3		
2029 Drama.....	3		
2123 (2823) Studies in Literary Traditions and Themes.....	3		
2148 Shakespeare.....	3		
2201 Introduction to World Literary Traditions (<i>see also CPLT 2201</i>).....	3		
2202 Introduction to Modern World Literature (<i>see also CPLT 2202</i>).....	3		
2220 Major British Authors.....	3		
2270 Major American Authors.....	3		
2300 Interpreting Discourse.....	3		
2593 Images of Women: An Introduction.....	3		
2673 Literature and Ethnicity.....	3		
2674 Introduction to African American Literature.....	3		
French			
1002 Elementary French.....	4		
1202 Elementary Cajun French.....	4		
2101 (2103) Intermediate French.....	3		
2102 (2104) Intermediate French.....	3		
2155 Readings in French Literature.....	3		
2201 Intermediate Cajun French I.....	3		
2202 Intermediate Cajun French II.....	3		
2801 French Classics in Translation.....	3		
3071 Survey of French Literature.....	3		
3072 Survey of French Literature.....	3		
3080 French Culture and Civilization.....	3		
German			
1102 Elementary German.....	4		
2075 German Civilization (<i>see also HIST 2075</i>).....	3		
2101 Intermediate German.....	3		
2102 Intermediate German.....	3		
2155 Readings in German Literature.....	3		
3081 Survey of German Literature and Culture: Beginning to 1700.....	3		
3082 Survey of German Literature and Culture: 1700-1830.....	3		
3083 Survey of German Literature, 1830-1890.....	3		
3084 Survey of German Literature, 1890-Present.....	3		
Greek			
2051 Intermediate Greek.....	4		
2053 Homer.....	3		
2055 Greek Drama.....	3		
2056 New Testament.....	3		
2065 Plato's Dialogues.....	3		
2066 Attic Oratory.....	3		
Hebrew			
1002 Beginning Hebrew (<i>see also REL 1002</i>).....	4		
2003 Intermediate Hebrew (<i>see also REL 2003</i>).....	4		
2004 Intermediate Hebrew (<i>see also REL 2004</i>).....	4		
History			
1001 (1002) Western Civilization to 1500 ..	3		
1003 (1004) Western Civilization Since 1500.....	3		
1005 World History to 1500.....	3		
1007 World History Since 1500.....	3		
2001 The Ancient Near East and Greece.....	3		
2002 Rome: Republic and Empire.....	3		
2012 Britain from 1689 to the Present.....	3		
2020 Medieval Europe.....	3		
2021 Modern Europe.....	3		
2022 Modern Europe.....	3		
2055 (2056) The United States to 1865.....	3		
2057 (2058) The United States from 1865 to the Present.....	3		
2061 African-American History.....	3		
2075 German Civilization (<i>see also GERM 2075</i>).....	3		
2085 Colonial Latin America.....	3		
2086 Latin America Since Independence.....	3		
2096 East Asian Civilization Since 1800.....	3		
2135 Introduction to Russian Culture and Civilization (<i>see also RUSS 2075</i>).....	3		
Honors			
1001 Seminar in Ancient Western Civilization.....	3		
1003 Lectures in Ancient Western Civilization.....	3		
2000 Critical Analysis.....	3		
2002 Seminar in Roman and Medieval Civilization.....	3		
2004 Lectures in Roman and Medieval Civilization.....	3		
2012 The 19 th Century.....	3		
2013 The 20 th Century.....	3		
3001 European Civilization from 1400 to 1789: The Old Regime.....	4		
3003 Western Civilization from 1789: Modern World.....	4		
3030 Humanities Colloquium.....	3		
3031 American Studies.....	3		
Italian			
1002 Elementary Italian.....	4		
2101 Intermediate Italian.....	3		
2102 Intermediate Italian.....	3		
2155 Readings in Italian Literature.....	3		
3001 Italian Culture and Civilization.....	3		
3071 Survey of Italian Literature.....	3		
3072 Survey of Italian Literature.....	3		
Japanese			
1002 Beginning Japanese.....	5		
2001 Intermediate Japanese.....	3		
2002 Intermediate Japanese.....	3		
Landscape Architecture			
1203 Views of the American Landscape.....	3		
Latin			
2051 Intermediate Latin.....	4		
2053 Intermediate Latin.....	3		
2065 Golden Age Narrative Poetry.....	3		
2066 Golden Age Prose.....	3		
2073 Roman Historians.....	3		
2074 Golden Age Lyric Poetry.....	3		
4010 Survey of Latin Literature.....	3		
Philosophy			
1000 (1001) Introduction to Philosophy.....	3		
2020 Ethics.....	3		
2023 Philosophy of Art.....	3		
2024 Philosophy in Literature.....	3		

2028 Philosophy of Religion (see also REL 2028).....	3	1102 Stellar Astronomy	3	Physics	
2033 (2053) History of Ancient and Medieval Philosophy	3	Biological Sciences		2401 Introduction to Concepts in Physics ..	3
2035 History of Modern Philosophy	3	*1001 General Biology	3	Renewable Natural Resources	
Portuguese		*1002 General Biology	3	*1001 Natural Resource Conservation	3
1102 Beginning Portuguese	4	*1201 Biology for Science Majors I	3		
2101 Intermediate Portuguese	4	*1202 (1503) Biology for Science Majors II	3,4	VI. SOCIAL SCIENCES	6
2102 Intermediate Portuguese	4	Chemistry		<i>All students must take at least three hours of social sciences at the 2000-level or above.</i>	
Religious Studies		1001 Chemical Fundamentals	3	African & African American Studies	
1000 (1015) Religions of the World.....	3	1002 Chemistry of Life and the Environment	3	2000 Introduction to African & African American Studies.....	3
1002 Beginning Hebrew (see also HEBR 1002)	4	1201 (1421) General Chemistry	3		
1004 (1007) Old Testament.....	3	1202 (1422) General Chemistry	3	Agricultural Economics	
1005 (1006) New Testament	3	Geography		2003 Introduction to Agricultural Economics	3
2000 Introduction to the Study of Religion	3	2050 Physical Geography: The Atmosphere	3		
2001 Faith and Doubt.....	3	2051 Physical Geography: Land and Water Surfaces, Plant and Animal Realms	3	Anthropology	
2003 Intermediate Hebrew (see also HEBR 2003).....	4	Geology		1001 Introduction to Physical Anthropology and Prehistory.....	3
2004 Intermediate Hebrew (see also HEBR 2004).....	4	1001 (1002) General Geology: Physical	3	1003 Introduction to Cultural and Social Anthropology	3
2027 (2031) Asian Religions.....	3	1003 (1004) General Geology: Historical ..	3	2015 Introduction to Archaeology.....	3
2028 Philosophy of Religion (see also PHIL 2028).....	3	Honors		2050 World Archaeology	3
2029 (2030) Judaism, Christianity, and Islam.....	3	*1007 Introduction to Life Sciences	4	2051 Introduction to World Ethnography...	3
3090 Comparative Mythology (see also CLST 3090).....	3	*1008 Introduction to Life Sciences	4	2423 Introduction to Folklore (see also ENGL 2423).....	3
Russian		Physical Science		Communication Disorders	
1002 Elementary Russian II	5	1001 Physical Science	3	2050 Introduction to Language.....	3
2001 Intermediate Russian I.....	3	1002 Physical Science	3	Communication Studies	
2002 Intermediate Russian II	3	Physics		2010 Interpersonal Communication	3
2075 Introduction to Russian Culture and Civilization (see also HIST 2135).....	3	1201 General Physics for Physics Majors .	4	Curriculum and Instruction	
3401 The Fairy Tale	3	1202 General Physics for Physics Majors .	4	2001 Education, Schooling, and Society	3
4081 Russian Literature in Translation: 19 th Century	3	2001 General Physics	3	2500 Knowing & Learning in Mathematics and Science.....	3
4082 Russian Literature in Translation: 20 th Century	3	2002 General Physics	3		
		2101 General Physics for Technical Students	3	Economics	
		2102 General Physics for Technical Students	3	2000 (2001) Principles of Microeconomics3	
		Laboratories and Other Individual Science Courses		2010 (2011) Principles of Macroeconomics3	
		Agriculture		2030 (2031) Economic Principles	3
		*1005 Science and Society	3	English	
		Agronomy		2423 Introduction to Folklore (see also ANTH 2423).....	3
		*1001 Introduction to Managed Plant Systems in the Modern World	3	Geography	
		Biological Sciences		1001 Human Geography: Americas and Europe.....	3
		*1011 Microorganisms and Man	3	1003 Human Geography: Africa and Asia.....	3
		Environmental Sciences		Honors	
		*1126 Introduction to Environmental Sciences	3	1003 Lectures in Ancient Western Civilization	3
		Geology		2000 Critical Analysis.....	3
		1066 Dinosaurs, Catastrophes, and Extinctions	3	2004 Lectures in Roman and Medieval Civilization	3
		1601 Physical Geology Laboratory	1	2012 The 19 th Century.....	3
		1602 Historical Geology Laboratory	1	2013 The 20 th Century.....	3
		Honors		3001 European Civilization from 1400-1789: The Old Regime.....	4
		*1035 Life Science Seminar	3	3003 Western Civilization from 1789: The Modern World	4
		1036 Physical Science Seminar	3	3031 American Studies	3
		Human Ecology		3033 Social Science Colloquium.....	3
		*2010 Nutrition in Health.....	3	International Studies	
		Medical Physics		2000 Contemporary Global Issues.....	3
		2051 Radiation Science for Medical Applications	3	Mass Communication	
		Oceanography and Coastal Sciences		2000 (2001) Introduction to Mass Media ...	3
		1005 (1006) Introduction to Oceanography	3	2025 The Business of Entertainment Media.....	3
				2030 Civic Engagement, Youth, and Media (see also POLI 2030).....	3
2028 Philosophy of Religion (see also REL 2028).....	3				
2033 (2053) History of Ancient and Medieval Philosophy	3				
2035 History of Modern Philosophy	3				
Portuguese					
1102 Beginning Portuguese	4				
2101 Intermediate Portuguese	4				
2102 Intermediate Portuguese	4				
Religious Studies					
1000 (1015) Religions of the World.....	3				
1002 Beginning Hebrew (see also HEBR 1002)	4				
1004 (1007) Old Testament.....	3				
1005 (1006) New Testament	3				
2000 Introduction to the Study of Religion	3				
2001 Faith and Doubt.....	3				
2003 Intermediate Hebrew (see also HEBR 2003).....	4				
2004 Intermediate Hebrew (see also HEBR 2004).....	4				
2027 (2031) Asian Religions.....	3				
2028 Philosophy of Religion (see also PHIL 2028).....	3				
2029 (2030) Judaism, Christianity, and Islam.....	3				
3090 Comparative Mythology (see also CLST 3090).....	3				
Russian					
1002 Elementary Russian II	5				
2001 Intermediate Russian I.....	3				
2002 Intermediate Russian II	3				
2075 Introduction to Russian Culture and Civilization (see also HIST 2135).....	3				
3401 The Fairy Tale	3				
4081 Russian Literature in Translation: 19 th Century	3				
4082 Russian Literature in Translation: 20 th Century	3				
Spanish					
1102 Elementary Spanish.....	4				
1152 Intensive Beginning Spanish	4				
2101 Intermediate Spanish	3				
2102 Intermediate Spanish	3				
2155 Spanish Textual Commentary	3				
3043 Introduction to Latin American Literature I	3				
3044 Introduction to Latin American Literature II	3				
3071 Survey of Spanish Literature	3				
3072 Survey of Spanish Literature	3				
Swahili					
1002 Elementary Swahili Language and Culture II (see also AAAS 1002)	4				
2003 Intermediate Swahili Language and Culture III (see also AAAS 2003).....	4				
2004 Intermediate Swahili Language and Culture IV (see also AAAS 2004).....	4				
Women's and Gender Studies					
2500 (2501) Introduction to Women's and Gender Studies.....	3				
V. NATURAL SCIENCES	9				
<i>To complete the natural science requirement, a student must take at least nine semester hours from the following list. A minimum of six hours must be in a physical or a life science course sequence and the remaining hours must be in an area other than that previously selected (i.e., both physical and life sciences must be taken). Life science courses are identified in the list below with an asterisk (*).</i>					
Sequence Courses					
Astronomy					
1101 The Solar System	3				

Political Science

1001 Fundamental Issues of Politics	3
2030 Civic Engagement, Youth, and Media (see also MC 2030).....	3
2051 (2052) American Government.....	3
2053 Introduction to Comparative Politics.....	3
2057 Introduction to International Politics.....	3
2060 Introduction to Political Theory	3

Psychology

2000 (2001) Introduction to Psychology	3
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Sociology

2001 (2002) Introductory Sociology	3
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Women's & Gender Studies

2900 Gender, Race & Nation	3
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University College

R. PAUL IVEY
Associate Dean

DEBORAH HOLLIER
Director, Student Support Services

CONNIE C. STELLY
Director, Ronald E. McNair Program

150 Allen Hall
225-578-6822
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University College is the portal of entry for most incoming freshmen enrolling at LSU. It also serves many returning students and transfer students who are not yet eligible for admission to a degree-granting senior college on campus. The two enrollment divisions of University College are the Center for Freshman Year and the Center for Advising and Counseling. In addition, a variety of retention-specific programs that focus on particular student populations are a significant part of the role and mission of University College.

Center for Freshman Year enrolls students with fewer than 30 hours of earned credit and who have not yet been admitted to a senior college.

Center for Advising and Counseling enrolls students who have earned 30-plus hours of college credit and who have not yet met the admission requirements for one of the University's degree-granting senior colleges. Other special populations are included as well. Visiting students, cross-enrolled students from other institutions, and non-matriculating students who are not working toward degrees are examples of these special populations.

Allied Health and Pre-nursing Programs – Many allied health and pre-nursing students begin their academic careers at LSU with the intent of continuing their studies at one of the campuses of the LSU Health Sciences Center or possibly one of several state and private schools offering degrees in these areas. University College provides advising assistance for these students as they prepare for the selective admission process for these professional programs.

Student Support Services is a federally funded TRIO program that serves a small, select number of undergraduate students. The program provides intensive academic, personal, and career counseling to assist participating students in achieving success at LSU.

Ronald E. McNair Research Scholars Program, also a federally funded TRIO program, is a part of University College. Its primary purpose is to increase the graduate school enrollment of students, such as minority race students, first generation students, and females who are underrepresented at the postgraduate level.

CENTER FOR FRESHMAN YEAR

OFFICE • 150 Allen Hall
TELEPHONE • 225-578-6822
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Every freshman student has access to the full-time counseling/advising staff. Students may obtain assistance in curriculum selection, career guidance, college study skills, and personal issues that may interfere with academic progress.

Freshmen who have decided on a field of study and who want to graduate in a minimum time should follow the freshman year

curriculum suggested by the college offering the degree in their interested field of study. These curricula guides are found in the various senior college sections of this Catalog. Advising assistance is available to guide students through the curricula requirements for all majors.

Students who have not decided on a field of study will initially enroll in one of the following three undecided/exploratory categories:

UNAH – Undecided with an interest in the arts or humanities

UNSE – Undecided with an interest in the sciences or engineering

UNSS – Undecided with an interest in the social sciences.

Students enrolled in these exploratory categories are expected to participate in academic and career counseling sessions during their first semester by making an appointment with a Center for Freshman Year counselor. A major should be declared by the end of the freshman year.

CENTER FOR ADVISING AND COUNSELING

OFFICE • 150 Himes Hall
TELEPHONE • 225-578-8281
FAX • 225-578-8268
E-MAIL • ucac@lsu.edu
WEB SITE • www.lsu.edu/ucac

The Center for Advising and Counseling serves both traditional and nontraditional students and allows them the opportunity to meet their individual academic goals. Within the framework of University regulations, students may be admitted to the Center for Advising and Counseling according to the following:

- **Students admitted from the Center for Freshman Year** must have earned a minimum of 30 credit hours and meet the University's requirements for continued enrollment. Students exiting the Center for Freshman Year who are in good academic standing, on University Scholastic Warning, or on University Scholastic Probation are admissible.

- **Transfer students, re-entry students, and students from other divisions** of the University may be admitted for a limited time in an effort to meet the admissions requirements to a senior college. These students will be considered for enrollment based on their potential for success in a particular degree program.

All admitted students will meet with an academic counselor to develop a plan outlining conditions and duration of enrollment in the Center for Advising and Counseling. Plans may be revised based on student performance, and continued enrollment may be denied if students fail to progress as defined in the individualized enrollment plan. Students are generally allowed a maximum of four regular semesters of enrollment in UCAC. In some instances, it is appropriate to limit enrollment to less than

four regular semesters.

ENROLLMENT OPTIONS

- **Pre-degree** - Students with a declared major that are not eligible for enrollment in the freshman college but do not meet the admission criteria for a senior college.
- **Pre-professional** - Allied health or nursing students who are not pursuing an undergraduate degree at LSU and have the potential to pursue one of the pre-professional programs at the LSU Health Sciences Center in New Orleans or Shreveport.
- **Not Regularly Admitted Students** - Students pursuing a degree at another college or university and taking courses at LSU with the intent to transfer all credit to their home institutions.
- **Non-matriculating Students** - Students who have completed a degree at a four-year institution and wish to take undergraduate courses with no specific degree path or who are in need of meeting admission requirements to a senior college that will offer a second degree.
International students who are in the U.S. on student visas are not eligible for admission to pursue their studies as non-matriculating or non-degree seeking students in the Center for Advising & Counseling according to the regulations of the Immigration and Nationalization Service.
- **Restricted Admit** - Students who have been previously enrolled in a senior college and are petitioning enrollment in UCAC as a condition of College Scholastic Probation or for students who are exiting a senior college to attempt admission to another senior college offering a newly declared major. Enrollment in this category is generally limited to one semester.
- **Southern University Cross Enrollment** - Students regularly enrolled at Southern University and taking a course or courses at LSU through the cooperative agreement between the two institutions.

A University College appeals committee will exercise discretion in considering other variables important to the admission decision of students being considered for enrollment in UCAC.

STUDENT RESPONSIBILITY

Students in University College bear final responsibility for selecting an academic program from one of LSU's senior college offerings and adhering to all published regulations and degree requirements of that college.

RONALD E. McNAIR PROGRAM

OFFICE • 232 Hatcher Hall
TELEPHONE • 225-578-4321
FAX • 225-578-4320
E-MAIL • mcnair@lsu.edu
WEBSITE • www.lsu.edu/mcnair

The Ronald E. McNair Post-Baccalaureate Achievement Program's primary goal is to increase the number of students who are members of a group underrepresented at the postgraduate level. Students participate in faculty-assisted research, attend conferences

to present their research, and prepare for acceptance into graduate school.

STUDENT SUPPORT SERVICES PROGRAM

OFFICE • 150 Himes Hall
TELEPHONE • 225-578-2873
FAX • 225-578-8308
E-MAIL • sss@lsu.edu
WEB SITE • www.sss.lsu.edu

Student Support Services (SSS) is a federally funded program offering services to help participants achieve academic success. The goal of the program is to increase retention and graduation rates of qualifying students. To be eligible for the program, students must have an ACT composite score of 24 or lower (SAT 1090 or lower), be TOPS eligible, and meet at least one of the three following criteria: be a first-generation college student, meet income guidelines set by the federal government, or have a documented disability. The Student Support Services program offers a study skills class, free one-on-one tutoring, a peer mentoring program, personalized counseling and academic advising, career decision making assistance, opportunities for cultural enrichment, a computer lab solely for SSS students, and much more. Additional information can be obtained from the Student Support Services office, 150 Himes Hall, or from www.lsu.edu/sss.

DIVISION OF PRE-PROFESSIONAL PROGRAMS

Enrollment in the pre-professional health programs in University College does not constitute admission to the professional health programs at the LSU Health Sciences Center.

ALLIED HEALTH PROGRAMS

OFFICE • 150 Himes Hall
TELEPHONE • 225-578-8281
FAX • 225-578-8268

University College offers pre-professional programs that prepare students to enter professional curricula leading to the bachelor's degree in the various allied health fields at either of LSU's Health Sciences Centers in New Orleans and Shreveport or at the LSU Dental School in New Orleans.

The LSU Health Sciences Center offers the final two or three years (clinical or professional) of Bachelor of Science degree programs in cardiopulmonary science (respiratory therapy), medical technology, ophthalmic medical technology, physician's assistant, and rehabilitation counseling.

The LSU School of Dentistry offers programs in dental hygiene and dental technology. The Bachelor of Science degree in each discipline is available. An Associate of Science degree in dental hygiene is also available. Admission to these programs is on a competitive basis, and applications for admission must be submitted well in advance of the date of matriculation at the Health

Sciences Center.

The LSU School of Allied Health Professions also offers master's degrees in communication disorders, health sciences, occupational therapy, and physical therapy.

Admission to these programs is on a competitive basis and preference is given to Louisiana residents. Further information regarding any of the programs may be obtained from the allied health advisor in the Center for Advising & Counseling or from the appropriate institutions.

The programs of study shown below are appropriate for the professional curricula indicated.

PRE-PROFESSIONAL PROGRAM IN CARDIOPULMONARY SCIENCE (RESPIRATORY THERAPY)

The following program is designed for students planning to apply to the Bachelor of Science in Cardiopulmonary Sciences at the LSU Health Sciences Center School of Allied Health Professions in New Orleans and Shreveport. Students should check the LSU Health Sciences Center's Web site for any additional updates or changes to the prerequisite curricula in Cardiopulmonary Science. Visit <http://lsuhsc.edu> for more information.

Approval of course selections must be obtained from the allied health counselor in the Center for Advising & Counseling or from the head of the appropriate professional department at the LSU School of Allied Health Professions. A copy of this approval must be placed in the student's file in the Center for Advising & Counseling.

Military science or physical education skills courses are not acceptable as electives in fulfilling the 60 semester hour pre-allied health credit requirement. Completion of a baccalaureate degree is required for admission.

Prerequisite Courses:	
English (composition)	6
General Education Humanities*	9
General Chemistry & Lab	8
Analytical Reasoning**	6
General Biology & Lab	8
Human Physiology	3
Science Elective***	3
Psychology (general)	3
General Physics & Lab	4
General Microbiology & Lab	4
General Education Arts Electives****	3
Computer Literacy	3
TOTAL	60

PRE-PROFESSIONAL PROGRAM IN PHYSICIAN'S ASSISTANT

The following program is designed for students planning to apply to the Bachelor of Science in Physician's Assistant at the LSU Health Sciences Center School of Allied Health Professions - Shreveport. Students should check the LSU Health Sciences Center's website for any additional updates or changes to the pre-requisite curricula in Physician's Assistant. Visit <http://www.lsuhscc.edu> for more information.

Approval of course selections must be obtained from the allied health counselor in

the Center for Advising & Counseling or from the head of the appropriate professional department at the LSU School of Allied Health Professions. Students are required to meet with the allied health counselor each semester to review their schedule and discuss any possible changes in prerequisites and entrance requirements to this program. A copy of this approval must be placed in the student's file in the Center for Advising & Counseling.

Military science or physical education skills courses are not acceptable as electives in fulfilling the 60 semester hour pre-allied health credit requirement. Completion of a baccalaureate degree is required for admission.

Prerequisite Courses:	
Anatomy w/lab	4
Human Physiology	3
General Microbiology & Lab	4
Chemistry, general or inorganic w/labs	8
Biology electives, junior or senior level	8
Statistics	3
TOTAL	30

PRE-PROFESSIONAL PROGRAM IN REHABILITATION COUNSELING

The pre-professional faculty advisor is available to prepare LSU students for the admission process to the School of Allied Health Professions program in rehabilitation counseling at the LSU Health Sciences Center. This master's degree program's admission requires completion of specific prerequisite courses and other selective admission criteria. A complete list of these requirements can be obtained from the faculty advisor in 150 Himes Hall or by contacting the School of Allied Health Professions, LSU Health Sciences Center, 1900 Gravier Street, New Orleans, LA 70112, telephone 504-568-4553, e-mail sahpsa@lsuhsc.edu.

Applications can be obtained from the School of Allied Health Professions Web site at <http://alliedhealth.lsuhs.edu>.

PRE-PROFESSIONAL PROGRAM IN MEDICAL TECHNOLOGY

The LSU Health Sciences Center offers a "3 plus 1" program in medical technology. Please contact the adviser in the Center for Advising & Counseling for more information.

The following program is designed for students planning to apply to the Bachelor of Science in Clinical Laboratory Sciences at LSU Health Sciences Center in New Orleans and Shreveport. Students should check the LSU Health Sciences Center Web site for any additional updates or changes to the prerequisite curricula in medical technology. Visit <http://www.lsuhs.edu> for more information.

Approval of course selections must be obtained from the allied health counselor in the Center for Advising & Counseling or from the head of the appropriate professional department at the LSU School of Allied Health Professions. Students are required to meet with the allied health counselor each semester to review their schedule and discuss any possible changes in prerequisites and

entrance requirements to this program. A copy of this approval must be placed in the student's file in the Center for Advising & Counseling.

Prerequisite Courses:	
English (composition)	6
General Chemistry & Lab	8
Organic Chemistry	3
Analytical Reasoning*	6
General Biology & Lab	8
General Microbiology & Lab	4
Science Elective**	3
General Elective***	12
General Education Humanities	9
General Education Social Sciences****	6
General Education Arts Electives*****	3
TOTAL	68

- * Algebra and statistics recommended.
- ** Upper-level biological sciences or molecular biology, chemistry, anatomy or physiology, pathogenic microbiology, or biochemistry recommended.
- *** Management, communications, technical writing, or education recommended.
- **** At least 3 hours must be taken at the 2000 level or higher.
- ***** Art, dance, theater, or fine arts recommended.

PRE-PROFESSIONAL PROGRAM IN DENTAL HYGIENE

The LSU Dental School in New Orleans offers two professional programs, Dental Hygiene and Dental Laboratory Technology. Bachelor's degrees are available in each discipline in addition to an associate's degree in dental laboratory technology. Students should check the LSU School of Dentistry Web site for any additional updates or changes to the prerequisite curricula in dental hygiene. Visit <http://www.lsuhs.edu> for more information.

Approval of course selections must be obtained from the allied health counselor in the Center for Advising & Counseling or from the head of the appropriate professional department at the LSU School of Dentistry. Students are required to meet with the allied health counselor each semester to review their schedule and discuss any possible changes in prerequisites and entrance requirements to this program. A copy of this approval must be placed in the student's file in the Center for Advising & Counseling.

Prerequisite Courses:	
General Biology & Lab	7
Human Physiology	3
General Microbiology	3
English Composition	6
English Literature*	3
Introductory Sociology	3
Speech	3
General Education Art**	3
General Chemistry	6
Analytical Reasoning***	6
General Psychology	3
General Education Humanities	9
Computer Literacy	3
General Electives	3
TOTAL	61

- * Should be at the 2000 level or higher.
- ** Art, music, or theatre recommended.
- *** Algebra and higher.

PRE-PROFESSIONAL PROGRAM IN DENTAL LABORATORY TECHNOLOGY

The LSU Dental School in New Orleans offers two professional programs, Dental Hygiene and Dental Laboratory Technology. Bachelor's degrees are available in each discipline in addition to an associate's degree in dental laboratory technology. Students should check the LSU School of Dentistry Web site for any additional updates or changes to the prerequisite curricula in dental laboratory technology. Visit <http://www.lsuhs.edu> for more information.

Approval of course selections must be obtained from the allied health counselor in the Center for Advising & Counseling or from the head of the appropriate professional department at the LSU School of Dentistry. Students are required to meet with the allied health counselor each semester to review their schedule and discuss any possible changes in prerequisites and entrance requirements to this program. A copy of this approval must be placed in the student's file in the Center for Advising & Counseling.

Prerequisite Courses:	
Business or Economics	6
English Composition	6
English Literature	3
General Education Fine Arts*	3
General Education Humanities	6
General Chemistry	3
Analytical Reasoning**	6
Natural Science (two semester sequence)	6
General Psychology	3
Introductory Sociology	3
TOTAL	45

- * Art, music, or theater recommended.
- ** College algebra and higher.

PRE-PHYSICAL THERAPY AND PRE-OCCUPATIONAL THERAPY

The pre-professional program advisor is also available to prepare LSU students for the admission process to the School of Allied Health Professions programs in physical therapy and occupational therapy at the LSU Health Sciences Center. These master's degree programs' admission requirements include a bachelor's degree, completion of specific prerequisite courses, and other selective admission criteria. A complete list of these requirements can be obtained from the faculty advisor in 150 Himes Hall or by contacting the School of Allied Health Professions, 1900 Gravier Street, New Orleans, LA 70112, telephone 504-568-4353, e-mail sahpsa@lsuhsc.edu.

Students may apply online for the master's programs approximately nine months prior to the anticipated date of entry. Applications can be obtained from the School of Allied Health Professions Web site at www.alliedhealth.lsuhs.edu.

PRE-PROFESSIONAL PROGRAMS IN PHARMACY AND OPTOMETRY

The LSU System does not offer a degree program in pharmacy or optometry. Students are encouraged to contact pharmacy and optometry schools where they intend to apply for information about the appropriate course work.

For students wishing to apply for the pharmacy programs at the University of Louisiana–Monroe, and Xavier University of New Orleans, advising assistance is available from the University College counselors in 150 Allen Hall and 150 Himes Hall.

PRE-PROFESSIONAL PROGRAM IN NURSING**PRE-PROFESSIONAL NURSING FACULTY**

ADVISOR • Cockrell
OFFICE • 150 Allen Hall
TELEPHONE • 225-578-6822
FAX • 225-578-5762

The following program is designed for students planning to apply to the Bachelor of Science in Nursing ONLY at the LSU Health Sciences Center School of Nursing in New Orleans.

LSU offers a pre-professional nursing program that prepares students to enter the professional nursing curriculum leading to the Bachelor of Science in Nursing at the LSU Health Sciences Center School of Nursing (LSUHSC SON) in New Orleans.

Admission to the LSUHSC SON is on a competitive basis. Applications for admission to the sophomore year at the LSUHSC SON must be submitted the semester prior to the semester anticipated acceptance to complete the three-year study. Students should consult with the LSUHSC SON prenursing advisor on the LSU campus for assistance with the application process.

Prenursing requirements are subject to change. Prenursing students are required to see the prenursing advisor in 150 Allen Hall each semester regarding possible curriculum changes. Students may also access the current prenursing curriculum online at <http://www.nursing.lsuhs.edu>.

Prenursing requirements vary with each professional school of nursing, and entrance to each school is competitive. Prospective nursing students seeking admission to institutions other than the LSU Health Sciences Center School of Nursing should obtain the entrance requirements from these schools directly.

Prerequisite Courses:	
Arts Elective*	3
College Algebra	3
English Composition.....	6
General Biology and Laboratory	4
General Chemistry	3
General Psychology	3
Introductory Sociology	3
Microbiology	3
Humanities*	6
TOTAL	34

* See approved list of courses at <http://nursing.lsuhs.edu> or from pre-nursing faculty advisor in 150 Allen Hall.

The following courses are required for the bachelor's degree in nursing and may be earned at LSU while students are pending approval for admission to the School of Nursing. Students should consult the pre-nursing faculty advisor in 150 Allen Hall for LSU courses that will meet the following requirements.

Humanities course (3000 level or above).....	3
Statistics	3
Abnormal Psychology	3
TOTAL	9

INDEPENDENT STUDY

University College students may enroll in Independent Study courses with the approval of the University College dean's office. Students must be mindful of the specific Independent Study guidelines set forth by the various senior colleges. Students should consult the Independent Study section of this catalog under the senior college in which they expect to eventually enroll. Students may enroll in Independent Study at any time as long as time is allowed to complete the course by the agreed upon deadline.

Deadline for Completion of Correspondence Courses

A correspondence course grade will be posted to the transcript when the course is completed. If a registered student takes the final examination by the last day of the examination period of a semester/summer term, that grade will be used to determine academic action at the conclusion of that semester/summer term.

If the examination is taken after that date, or if the student is not registered, the correspondence grade will be used to determine academic action the next regular semester or summer term for which the student is registered. The grade will not be posted to intersession.

Students placed on scholastic drop while a correspondence course is in progress will be allowed to complete the course for degree credit. During their period of ineligibility to enroll, students may only register on a noncredit basis for correspondence courses.

Extensions of Time

Students will receive an extension of time to complete a correspondence course if they: (1) have not exceeded the maximum number of hours for enrollment for a regular or summer term, including correspondence courses; (2) remain eligible to enroll at the University; and (3) continue their enrollment in the Center for Freshman Year.

COLLEGE OF

Agriculture

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Dean

M. E. BETSY GARRISON

Associate Dean

JACQUELINE M. MALLET

Assistant Dean

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Student Services

138 Agricultural Administration Building

225-578-2065

FAX 225-578-2526

The College of Agriculture was established at LSU in 1908; however, its roots go back to the first graduation class that had, as one of its five graduates, a planter. The mission of today's College of Agriculture is one rooted in business, science, and technology. The application of knowledge to meeting the world's food and fiber needs remains the common thread that binds the college's past to its future.

The college's land-grant mission dates to 1862 and consists of three emphases: learning, discovery, and active engagement in our community. The discovery and engagement components of the college's mission are often conducted in concert with the LSU Agricultural Center. Many faculty hold joint appointments with the Louisiana Agricultural Experimental Station or the Louisiana Cooperative Extension Service—the research and education units of the LSU Agricultural Center. The interlinking of learning, discovery, and engagement are hallmarks of the land-grant system and are likewise the cornerstones of the College of Agriculture's strategic agenda for the future.

The College of Agriculture is home to more than 40 majors and areas of concentration within 11 academic departments and schools. All of the programs provide an interdisciplinary educational experience that reflects the latest in science and technology and is built on the six focus areas that are core to the college's strategic agenda.

VISION

To be a leading college of agriculture, taking undergraduate and graduate students to the highest levels of intellectual and personal development in the milieu of a competitive research, service, and teaching land-grant university.

MISSION

To provide programs of excellence to educate undergraduate and graduate students of agriculture, environmental sciences, renewable natural resource sciences, human resource sciences, quantitative sciences, and human sciences; to support and encourage research, public service, and other scholarly pursuits; to further the purposes of the land-grant college system for the benefit of the citizens of Louisiana, the nation, and the global community.

Strategic Agenda

To achieve our mission, the College of Agriculture has developed a strategic agenda focused on six interdisciplinary areas. These areas encompass broad fields of work and are by their content, interdisciplinary and cross many administrative lines both within the college and in other administrative units. In particular, these areas coincide with and closely follow the research and development agenda of the LSU Agricultural Center.

- Environmental quality and renewable resource management
- Bioscience and technology in agriculture
- Processes and products for added value
- Agribusiness, consumer science, and global competitiveness
- Food quality, nutrition, and health
- Human resource development

COORDINATION WITH THE LSU AGRICULTURAL CENTER

The College of Agriculture, in cooperation with the LSU Agricultural Center, offers students unique and unparalleled educational opportunities. The Louisiana Agricultural Experimental Station maintains research programs in Baton Rouge and at branch stations throughout Louisiana. The Louisiana Cooperative Extension Service disseminates knowledge throughout Louisiana through its network of specialists in Baton Rouge and county agents, and family and consumer sciences in every parish. A compressed video system that links all areas of the state greatly facilitates the delivery of educational programming.

Close cooperation between the college and the Agricultural Center provides an instructional program of exceptional quality, combining knowledge and the latest in technology and application. Because many faculty members in the college also hold appointments in the Agricultural Center, students are exposed to the latest in cutting-edge research and how that knowledge is disseminated to the field through the extension service.

The College of Agriculture and the Agricultural Center are actively involved in disseminating new knowledge and methods throughout the world. Internationally experienced faculty and staff bring their insights and experiences into the classroom to further enhance the learning experience. An active international program provides opportunities for students to gain valuable international experience that can assist them in future employment or study. The college and the Agricultural Center are currently active in Central and South America, Southeast Asia, West Africa, Europe, and countries of the former Soviet Union.

FACILITIES

Facilities for instructional purposes include more than 4,500 acres of farm and timber land and buildings for the care and study of crops and plants, livestock and poultry, and wildlife and forests.

Computer facilities, laboratories, and related research facilities are used for teaching purposes. Land and facilities at branch research stations throughout Louisiana also play a part in the teaching program, particularly at the graduate level. The state's land and water resources; plant, animal, and aquatic life; and its communities and people strengthen instruction through a constantly changing complex of hundreds of research projects throughout the state that are coordinated with the teaching program.

COLLEGE OF AGRICULTURE • UNDERGRADUATE DEGREES		
Departments/Schools	Curricula	Degrees
Department of Agricultural Economics & Agribusiness	Agricultural Business	Bachelor of Science
Department of Biological & Agricultural Engineering	(see College of Engineering)	
Department of Entomology	Plant and Soil Systems ¹	
Department of Experimental Statistics	(see "Graduate School/Professional Programs" section of this catalog)	
Department of Food Science	Food Science and Technology	
Department of Plant Pathology & Crop Physiology	Plant and Soil Systems ¹	
School of Animal Sciences	Animal, Dairy, and Poultry Sciences	
School of Human Ecology	Child and Family Studies	
	Nutritional Sciences	
	Textiles, Apparel, and Merchandising	
School of Human Resource Education & Workforce Development	Agricultural Education	
	Business Education	
	Family and Consumer Science Education	
	Human Resource Education	
	Marketing Education	
School of Plant, Environmental & Soil Sciences	Environmental Management Systems	
	Plant and Soil Systems ¹	
School of Renewable Natural Resources	Forestry (Forest Management)	Bachelor of Science in Forestry
	Natural Resource Ecology and Management	Bachelor of Science

¹ The curriculum in plant and soil systems consolidates the curricula in the areas of agronomy, entomology, horticulture, and plant pathology and crop physiology. Students in this curriculum take core courses that provide a basic knowledge required for specialization in one of the seven areas of concentration: agricultural pest management, crop management, horticultural science, environmental horticulture, soil science, turfgrass management, and urban entomology. Each area is further individualized by the addition of approved and free electives.

Similarly, research, teaching, and extension activities in foreign countries are made an active part of the classroom instruction. Livestock include purebred herds of Angus, Brahman, and Hereford cattle that are

used in teaching and research studies. Artificial insemination and embryo transfer are used to incorporate current genetics from leading herds in Louisiana and throughout the U.S. Other herds of beef cattle near the

campus include breeds and crosses representative of the Southern beef cattle industry. Brahman-British cow herds are bred to either British or heavy muscled terminal sire breeds such as Charolais or Belgian Blue

bulls to produce a broad range of cattle types for research and teaching purposes. The dairy herd is composed of the Holstein breed.

Breeds of sheep include Gulf Coast (Louisiana) Native and Suffolk. The swine herd is comprised of purebred Yorkshires and a crossbred herd of Yorkshire-Landrace sows that are bred to heavy muscled Hampshire, Duroc, or commercial breeding company hybrid line boars to produce market hogs that are representative of the swine industry. A number of Quarter Horses and grade mares are maintained for research and instruction. The Dairy Improvement Center cooperates with Genex in the operation of a commercial artificial breeding program. Commercial strains of poultry are used in instruction and research. Research and teaching with poultry are conducted at a modern state-of-the-art facility. Totally enclosed tunnel-ventilated houses are designed to conduct research with broilers, layers, and broiler-breeders.

ADMISSION REQUIREMENTS

Within the framework of University regulations, students may be admitted to the college according to the following policies:

- Entering freshmen who meet the University admissions standards and have a declared major within the College of Agriculture will be directly admitted to the College of Agriculture.
- Students transferring from another academic unit on the LSU campus will be admitted to the College of Agriculture after they have earned at least a 2.00 LSU grade-point average and a 'C' or better in MATH 1021 or higher and ENGL 1001 (1004 for international students). Students from another institution must also meet University transfer admission requirements.
- On recommendation of the appropriate department head and the dean of the college, probationary admission may be granted in special cases.

SCHOLASTIC REQUIREMENTS

In addition to University requirements, the College of Agriculture has additional scholastic requirements:

- Students must complete at least one general education English composition course and one general education analytical reasoning course with a "C" or better within the first 30 hours of study.
- Students who fail to earn a 2.00 average in each of two consecutive regular semesters and whose LSU or cumulative grade point average is below a 2.00 will be declared ineligible to continue in the College of Agriculture for one regular semester.
- Seniors who have completed the first semester of the senior year, are degree candidates, and are under scholastic suspension from the University, may be placed on probation for one additional semester at the discretion of the dean of the College of Agriculture.

LOUISIANA CONSORTIUM OF PUBLIC AGRICULTURAL COLLEGES

Louisiana State University is a member of the Louisiana Consortium of Public Agricultural Colleges (LCPAC). The consortium has developed a 60-hour, two-year core curriculum to facilitate the transfer of agricultural students among Louisiana public colleges and universities. The articulation policy for the LSU College of Agriculture is shown below.

LSU COURSE EQUIVALENCIES FOR THE LCPAC CORE		
CORE COURSE	HOURS OF CREDIT	LSU COURSE EQUIVALENT
Agriculture (Animal)	3	Animal Science 1011 or Dairy Science 1048 or Poultry Science 1049
Agriculture (Plant)	3	Horticulture 2050 or Agronomy 1051 or 2051
Agriculture (Electives)	2	Any 1000- or 2000-level agricultural course
Art	3	See gen. ed. requirements in this catalog.
Biological Sciences	8	Biological Sciences 1201, 1202, 1208, 1209, 1402
Chemistry	8	Chemistry 1201, 1202, 1212
Communication	3	Communication Studies 2060
Computer Science	3	Experimental Statistics 2000
Economics	3	Economics 2030
English Composition	6	English 1001, 2000*
English Literature	3	English 3020 or 3022 or 2025 or 2027 or 3070 or 2148
History	3	History 1001 or 1003 or 2001 or 2002 or 2011 or 2012 or 2021 or 2022 or 2055 or 2057
Humanities Electives	3	See gen. ed. requirements in this catalog.
Mathematics	6	Mathematics 1021;* 1022 or 1431
Social Sciences Electives	3	See gen. ed. requirements in this catalog.
TOTAL HOURS	60	

* A grade of "C" or higher is required in ENGL 1001 and MATH 1021 to receive a degree in Agriculture from LSU.

READMISSION TO THE COLLEGE

Students who have completed terms of scholastic suspension from the University may apply for readmission through the Office of Undergraduate Admissions. They may be readmitted only with the approval of the head of the appropriate department/school and the dean of the College of Agriculture. Readmission is not guaranteed.

DEGREE REQUIREMENTS OF THE COLLEGE

The baccalaureate degree is conferred on students who fulfill the following requirements:

- Students must complete their curricula with at least a 2.00 grade point average on all work taken not resulting in grades of "P," "W," or "I." Students must have a 2.00 average on work taken at this University, as well as a 2.00 average on the entire college record.
- *Teacher Education Programs only:* Minimum grade point average of 2.50, cumulative and LSU; passage of all state-required sections of the PRAXIS II Series; minimum grade of "C" in course work as specified by the Louisiana Board of Elementary and Secondary Education.
- The last 30 semester hours of the degree program must be taken in residence in the College of Agriculture. Courses taken through independent study in the last 30 hours will not be considered residence credit without prior approval of the department head concerned and the dean of the college.
- Graduation check-out must be completed and approved by the Dean's Office during the semester prior to graduation.

MINOR FIELD REQUIREMENTS (OPTIONAL)

Students in the College of Agriculture are not required to pursue a minor. They may choose to do so by the guidelines outlined below.

- A minor is the student's field of secondary academic emphasis. A minor consists of a minimum of 18 hours of related course work designed to provide breadth and depth in a student's undergraduate program
- At least nine hours must be taken at the 3000 and/or 4000 level on this campus
- A minimum gpa of 2.00 is required in the minor field on all work taken in the LSU System and on all work taken
- Minors inside the College of Agriculture must be initiated by the department or school administering the majority of the courses constituting the minor. When submitting a minor for approval, the department or school should specify whether its students may elect that minor. All minors must be approved by the college committee on courses and curricula

The degree program of a student outside the College of Business may not consist of more than 30 hours of degree credit earned in courses offered by the College of Business.

► Agricultural Business

To graduate with a minor in agricultural business, students must complete:

- AGECE 1003, 3213, 3413, 4403; and EXST 2201
- at least six credit hours of approved electives chosen from AGECE 2003, 3003, 3803, 4203, 4213, 4413, 4433, 4443, 4503, 4603, 4613; ACCT 2001, 2021, 2101; ECON 2030, 2035, 4120, 4440, 4520, 4540, 4550, 4720; BLAW 3200, 3201, FIN 3351, 3440, 3636, 3715; MGT 3200, 3320, 3500, 4420, 4523, 4620; MKT 3401, 3427, 3431, 3441, 4423; and MATH 1431. Students interested in pursuing the MS in agricultural economics should elect MATH 1431 and ECON 4720

The minor in agricultural business is not available to students majoring in agricultural business.

► Agricultural Pest Management

To graduate with a minor in agricultural pest management, students must complete a minimum of 18 hours of course work in pest management. Specific requirements include: ENTM 2001 or PLHL/ENTM 2050; PLHL 4000; AGRO 4070; and eight additional hours chosen from ENTM 4001, 4005, 4006, 4012, ENTM/PLHL 4018, PLHL 4001, AGRO 4071. Of the eight elective hours, at least one course must be from entomology.

► Agriculture for Students in Mass Communication

This minor is open only to mass communication students.

To graduate with a minor in agriculture, students must complete 18 hours. A minimum of nine hours must be at the 3000 and 4000 level:

- AGECE 2003, HUEC 2010, AGRO 1051, HUEC 3061.
- Six hours from any course (3000/4000 level) within the College of Agriculture.

► Agronomy

To graduate with a minor in agronomy, students must complete seven hours consisting of AGRO 2051 and AGRO 3000 and 11 additional hours in agronomy. At least six hours of the 11 must be at the 3000 or 4000 level. The minor in agronomy is not available to students in plant and soil systems.

► Animal, Dairy, and Poultry Sciences

To graduate with a minor in animal, dairy, and poultry sciences (18 hrs.), students must complete a minimum of 18 hours of course work in animal, dairy, or poultry sciences with at least nine hours at the 4000 level and maintain a 2.00 average on all work taken. Students majoring in animal, dairy, and poultry sciences may not also minor in this curriculum.

► Applied Statistics

To graduate with a minor in applied statistics, students must complete a minimum of 18 hours of course work consisting of:

- EXST 2201, 3201, 4050; and
- Six hours from EXST 2215, 3999, 4012, and 4087.

► Aquaculture

This minor is not available to students majoring in the natural resource ecology and management curriculum.

To graduate with a minor in aquaculture (19-20 hrs.), students must complete the following: required courses (10 hrs.)—RNR 2002, 4022, and 4025; fisheries and aquaculture—at least six hours selected from the following: RNR 4023, 4037, 4040, 4106, or 4145; plant taxonomy and ecology—select one from: RNR 4020, OCS 4308, or BIOL 4052.

► Business Administration

To graduate with a minor in business administration (18 hrs.), students must complete ACCT 2000; ECON 2030; FIN 3715; ISDS 1100; MGT 3200; MKT 3401.

► Entomology

To graduate with a minor in entomology, students must complete a minimum of 18 hours of course work in entomology with at least nine hours at or above the 3000 level. Specific requirements include ENTM 2001 and 4005 and 11 hours from the following: ENTM 2050, 3002, 4001, 4002, 4006, 4007, 4011, 4012, 4015, 4016, 4018, 4040, 4099, 4100, and 4199.

► Environmental Management Systems

To graduate with a minor in environmental management systems, students must complete 18 hours consisting of EMS 1011, 2011, 3040, and 3050, and 5 hours chosen from EMS 3045, 4010, 4020, 4055, or 4056.

Note: some courses require prerequisites (see the section "Courses of Instruction" in this catalog or consult the instructor).

► Fisheries

This minor is not available to students majoring in the natural resource ecology and management curriculum.

To graduate with a minor in fisheries (19-20 hrs.), students must complete the following courses: fisheries—RNR 4023, 4025, 4037, 4040, and 4145; plant taxonomy and ecology—select one from RNR 4020, OCS 4308, or BIOL 4052.

► Forestry

To graduate with a minor in forestry students must complete the following: forest biology—RNR 2001, 2101; silviculture—RNR 3002; mensuration—RNR 2102, 3103; forestry electives—select four hours from ENTM/PLHL 4018; RNR 4021, 4030, 4032, 4033, 4036, 4038, or 4064.

► Horticulture

To graduate with a minor in horticulture, students must complete seven hours consisting of HORT 2050 and 2061; and 11 additional hours in HORT. This minor is not available to students majoring in plant and soil systems.

► Leadership Development

Students from all curricula will find themselves thrust into leadership roles within their profession and chosen organizations. This minor enables students from any major to develop the skills and competencies for leadership in any setting, including organizations and communities.

To graduate with a minor in *leadership development*, students must complete HRE 2723, 3723, 4723, 4804, AND six hours of electives from a list of courses approved by the departmental faculty in the School of Human Resource Education and Workforce Development.

An Honors version of the minor sequence is available and consists of HRE 2724, 3724, 4724, HNRS 3100 AND six hours of electives from a list of courses approved by the department faculty in the School of Human Resource Education and Workforce Development.

► Nutritional Sciences

To graduate with a minor in nutritional sciences, students must complete 18 hours including HUEC 2010, 2110, and 3012. In addition, students must choose one of the two area of study options listed below:

- Community Nutrition—HUEC 2019, 3116, and either HUEC 3010 or 4016
- Nutrition—HUEC 4010, 4011, and 4014

► Textiles, Merchandising, & Apparel

This minor is not available to students majoring in textiles, apparel, and merchandising.

To graduate with a minor in textiles, merchandising, and apparel, students must complete 10 hours consisting of HUEC 2040, 2041, 2045, 3032; and nine additional hours chosen from HUEC 3030, 4041, 4043, 4044, 4070, 4071, or 4072. Students must comply with all prerequisites and must achieve a minimum grade of "C" in every course taken in the minor field.

► Vocational Education

To graduate with a minor in vocational education, students in the College of Agriculture must complete 18 sem. hours: HRE 2001, 3055, 3062, 3201, 4301; 6 hours from HRE 4004, 4011, 4504, 4704, 4705; three sem. hours chosen from any course offered by the School of Human Resource Education & Workforce Development.

► Wildlife Ecology

This minor is not available to students majoring in the Natural Resource Ecology and Management curriculum.

To graduate with a minor in wildlife ecology (19-21 hrs.), students must complete the following: (1) Required courses—RNR 2101, 2031, 2039; (2) Area courses—one course selected from the following: RNR 2102, 3004, 4011, 4103, 4107 or 4900; (3) Plant Taxonomy—one course selected from the following: RNR 2001, 4020, BIOL 4041 or 4055; (4) Animal Taxonomy—one course selected from the following: RNR 3018, 4145 or BIOL 4141, 4142, 4146.

INDEPENDENT STUDY

Up to one-fourth of the number of hours required for the baccalaureate degree may be taken through independent study. Before scheduling such work, however, students should obtain approval from the dean of the college.

ENROLLMENT IN TWO DEGREE PROGRAMS

With the dean's approval, a student may be enrolled in two degree programs concurrently. A student can enroll as a dual registrant using one of the following procedures:

- Dual Enrollment within the College of Agriculture—By completing residence and academic requirements for two degree programs, a student may earn one bachelor of science degree with two majors. By completing residence and academic requirements, and earning 30 hours over the degree requiring the fewer number of hours, a student may earn two separate bachelor's degrees.
- Dual Enrollment in the College of Agriculture and a Second Academic College—By completing residence and academic requirements for two degree programs and earning 30 hours more than the degree requiring the fewer number of hours, a student may earn two bachelor's degrees. The student must be accepted for admission to both colleges and must adhere to the regulations of both colleges. In addition, the student must declare a home college where registration will be initiated and permanent files maintained. It is the student's responsibility, however, to maintain contact with the second college to ensure that satisfactory progress is being made toward that degree.

PHI KAPPA PHI

Founded in 1897 at the University of Maine, Phi Kappa Phi is the nation's oldest, largest, and most selective honor society for all academic disciplines. Its chapters are on nearly 300 campuses in the United States, Puerto Rico, and the Philippines. Each year, approximately 30,000 members are initiated. Some of the organization's more notable members include former President Jimmy Carter, writer John Grisham, NASA astronaut Wendy Lawrence, and Netscape founder James Barksdale. The LSU chapter was founded in 1930 as the 43rd chapter in the nation.

The mission of Phi Kappa Phi is to recognize and promote academic excellence in all field of higher education and to engage the community of scholars in service to others. Phi Kappa Phi is unique because it recognizes superior scholarship in all academic fields, rather than restricting membership to a limited field. Juniors in the top 7.5 percent and seniors and graduate students in the top 10 percent of their classes may be invited to become members of Phi Kappa Phi. New LSU Phi Kappa Phi members are initiated and honored in the spring semester each year and wear identifying ribbons on their academic gowns at commencement exercises.

Additional information about the society may be found at www.phikappaphi.org.

GAMMA SIGMA DELTA

Gamma Sigma Delta is an honor society that promotes the advancement of all disciplines associated with agriculture and their contributions to mankind. We encourage high standards of scholarship and worthy achievements as well as excellence in practice in all branches of agricultural and related sciences.

Members of the LSU chapter include graduate and undergraduate students, faculty members, and administrators representing research, teaching, and outreach. We represent a diversity of disciplines including human ecology, renewable natural resources economics, business, food science, human resources, workforce development, veterinary medicine, horticulture, and traditional agricultural animals and crops.

GRADUATE PROGRAMS

Through the Graduate School, the college offers master's and doctoral degrees in the fields of agricultural economics, agronomy, animal and dairy sciences, entomology, food science, forestry, horticulture, human ecology, human resource education, and plant health. A doctoral degree in wildlife and fisheries science is also offered. In addition, master's degrees are offered in applied statistics, fisheries, and wildlife. For further details, consult the "Graduate School • Professional Programs" section of this catalog.

PRE-VETERINARY MEDICINE

The pre-veterinary program involves three or more years of training—at least 66 semester hours—prior to application to the LSU School of Veterinary Medicine. Students interested in attending veterinary school can pursue a degree program in one of two areas listed below and enter the LSU School of Veterinary Medicine after completion of the first three years of the chosen curriculum. The pre-veterinary program will allow you to pursue an undergraduate degree in either of the following areas: animal, dairy, and poultry sciences or natural resource ecology and management. After successful completion of the first year of work at the LSU School of Veterinary Medicine, you will be awarded a bachelor of science degree in your chosen undergraduate field of study. You will then complete the remainder of the professional curriculum in veterinary science required for a Doctorate of Veterinary Medicine.

PRE-MEDICINE AND PRE-DENTAL

The College of Agriculture at LSU provides unique opportunities that prepare today's students to enter careers in medicine, dentistry, and allied health fields. Programs within the School of Animal Sciences, Department of Biological & Agricultural Engineering, and the School of Human Ecology offer appealing options for students; however, students in the college's departments and schools can fulfill pre-medical or pre-dental course requirements while pursuing a major in an area that matches their own career interest. The College of Agriculture not only provides students with an

exceptional academic basis for professional careers in medicine or dentistry, but also enhances their education with communication, leadership skills, and opportunities in community service and research. Alumni of these programs have been accepted at prestigious medical schools such as Columbia, Emory, Johns Hopkins, and the LSU Health Sciences Centers in New Orleans and Shreveport.

DEPARTMENTS, SCHOOLS, AND CURRICULA

The dean, directors of schools, heads of departments, and members of the faculty of the college will consult with students on their choices of curricula. Requests for substitutions for required courses in any curricula in the college must have approval of the dean, upon recommendation of the head of the department or school. A maximum of six semester hours of basic ROTC and eight semester hours of advanced ROTC may be allowed for elective credit in any curriculum.

DEPARTMENT OF AGRICULTURAL ECONOMICS & AGRIBUSINESS

OFFICE • 101 Agricultural Administration Building
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FAX • 225-578-2716

CURRICULUM:

- Agricultural Business

The agricultural business curriculum offered by the Department of Agricultural Economics & Agribusiness provides training for a wide variety of careers in the agribusiness industry. The program integrates the disciplines of business and agricultural business, economics, quantitative methods, and agricultural sciences. Course offerings include courses in agribusiness management, marketing, credit and finance, agricultural production economics, natural resource economics, agricultural policy and law, price analysis, statistics, quantitative methods, and computer applications.

The curriculum in agricultural business emphasizes use of management, marketing, finance, law, and other business principles in the solution of problems in the agribusiness industry. This curriculum provides students excellent preparation for careers in farm management, agricultural law, commodity trading, sales, marketing, real estate, international trade, insurance, agricultural processing, management, communications, public relations, finance, and appraisal.

Students majoring in curricula offered through other departments in the College of Agriculture may minor in agricultural business. See the listing of the College of Agriculture minors for details.

CURRICULUM IN AGRICULTURAL BUSINESS

TOTAL SEM. HRS. • 121

General Education Course Requirements • Arts, humanities, and social sciences—select from approved general education courses listed in a separate section of this catalog.

FRESHMAN YEAR	SEM. HRS.
Agricultural Economics 1003	3
Gen Ed Nat'l Sciences Sequence	6
Gen Ed Nat'l Sciences Course (physical/life, not same as sequence)	3
English 1001	3
Mathematics 1021, 1431	6
College of Agriculture elective	3
General education arts course	3
Electives or ROTC	3
	—
	30
SOPHOMORE YEAR	SEM. HRS.
Communication Studies 2060 or 1061 ¹	3
Economics 2030 and Agricultural Economics 2003 or Economics 2000 and 2010	6
Economics 2035	3
English 2000; 2001, 2002, 2005, 2007, 2008, 2009, 2012, 2024, 3001, 3003, 3004, or 3101	6
Experimental Statistics 2201 or Information Systems and Decision Sciences 2001 ²	3-4
General education humanities course	3-6
College of Agriculture elective	3
Elective or ROTC	4-0
	—
	31

¹Students taking CMST 1061 must take six hours of General Education Humanities courses during the sophomore year; students taking CMST 2060 must take three hours of General Education Humanities courses plus three hours of general electives or ROTC during the sophomore year.

²Students electing to take ISDS 2001 must take an additional hour of general electives or ROTC.

JUNIOR YEAR	SEM. HRS.
Accounting 2000 or 2001, 2101	6
Agricultural Economics 3003, 3213, 3413, 3503 or 4613	12
Business Law 3200 or 3201	3
Management 3200	3
Marketing 3401	3
College of Agriculture elective	3
	—
	30

SENIOR YEAR	SEM. HRS.
Agricultural Economics 4273, 4403, 4433, 4603	12
General education humanities course	3
Area of concentration courses/approved AGEC electives	9
Area of concentration courses/general electives	6
	—
	30

Areas of Concentration

◆ Agribusiness Finance

Required Courses (12 hrs.)—AGEC 3303 and 4443; and six hours to be selected from one of the following areas: (1) *Real Estate*—FIN 3351, 3352, 3353, 3355 or (2) *Investment*—FIN 3440, 3632, 3636, 3715,

3717, 3826

◆ Agribusiness Management

Required Courses (12 hrs.)—six hours to be selected from a list of AGECE courses and six hours to be selected from a list of INED and MGT courses; both lists are available in the Department of Agricultural Economics & Agribusiness

◆ International Business

Required Courses (15 hrs.)—AGEC 4613; and six hours chosen from ECON 4020, 4025, 4030, 4040, 4050, 4520, or 4550; MGT 4420, MKT 4443; and six hours foreign language

◆ Rural Development

Required Courses (15 hrs.)—AGEC 4623; SOCL 2001 or 2351; SOCL 4351; and six hours chosen from ECON 4070, 4110, 4130, SOCL 4551, GEOG 4047, 4077

DEPARTMENT OF BIOLOGICAL & AGRICULTURAL ENGINEERING

OFFICE • 149 E. B. Doran Building
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CURRICULUM:

- Biological Engineering
- (See the "College of Engineering" section of this catalog.)

DEPARTMENT OF ENTOMOLOGY

OFFICE • 404 Life Sciences Building
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CURRICULUM:

- Plant and Soil Systems (Agricultural Pest Management Area; Urban Entomology Area)

PLANT AND SOIL SYSTEMS

The curriculum in plant and soil systems consolidates the curricula in the areas of agronomy, entomology, horticulture, and plant pathology and crop physiology. Students in this curriculum take core courses that provide a basic knowledge required for specialization in one of the seven areas of concentration: agricultural pest management, crop management, horticultural science, environmental horticulture, soil science, turf grass management, and urban entomology. Each area is further individualized by the addition of approved and free electives.

Students interested in pursuing a minor in agricultural pest management, agronomy, entomology, or horticulture may take suggested courses for the minor as part of the approved and free electives. (See the section on "Minor Field Requirements" in this chapter for details.)

The Department of Plant Pathology & Crop Physiology and the Department of Entomology offer an area of concentration in agricultural pest management and the Department of Entomology offers an additional area of concentration in urban entomology. The agricultural pest

management concentration is an interdisciplinary program of study in weed science, plant pathology, and entomology. Effective management of pest problems in agriculture requires a broad base of knowledge in the pest disciplines and practical field experience. The agricultural pest management concentration features a strong core of courses in the three pest management disciplines; a strong background in agriculture, life and physical sciences; and practical training through an internship work experience. The urban entomology concentration is well suited for students who are interested in urban pest control, mosquito control, public health insect management, and forensic entomology for criminal justice.

In both concentrations, a range of restricted and nonrestricted electives allows students to personalize their degree program for employment with agricultural industries such as chemical, seed, or biotechnology companies; state and federal research, extension, and regulatory agencies; private agricultural consulting firms; farmer cooperatives; nurseries, home, and garden centers; golf courses; greenhouse plant production; corporate farms; urban pest control; public health insect management; and forensic entomology. Both concentrations require students to complete an internship providing practical experience in agricultural or urban pest management areas.

CURRICULUM IN PLANT AND SOIL SYSTEMS

TOTAL SEM. HRS. • 127-129

¹ For crop management and soil science areas of concentration

² For horticultural science; environmental horticulture, turfgrass management; and landscape management areas of concentration

³ For agricultural pest management area of concentration

⁴ For urban entomology area of concentration

⁵ For landscape management area of concentration

⁶ For horticultural science area of concentration

FRESHMAN YEAR	SEM. HRS.
Biological Sciences 1201, 1202, 1208, 1209 or 1001, 1002, 1005 ⁵	8
Chemistry 1201, 1202, 1212.....	8
English 1001.....	3
Mathematics 1021.....	3
Mathematics 1022 ² or Experimental Statistics 2201 ^{1,3,4}	3-4
General education arts course.....	3
General education social sciences course.....	3
General education humanities course.....	3
	—
	34-35

SOPHOMORE YEAR	SEM. HRS.
Agronomy 2051.....	4
Chemistry 2060 or 2261.....	3
English 2000.....	3
Agricultural Economics 2003 or Economics 2030.....	3
Communication Studies 2060.....	3
General education humanities course.....	3
Area of concentration courses.....	12-13
Approved electives.....	3-2
	—
	34

JUNIOR YEAR	SEM. HRS.
Biological Sciences/Plant Health 3060 ⁶ or Horticulture 2860.....	3-4
Agronomy 3010 or 3090 ¹ or Horticulture 3000 or 3010 ² or Plant Health/Entomology 3000 ^{3,4}	3
Plant Health 4000.....	3
Area of concentration courses.....	9-12
Approved electives.....	9-5
Electives or ROTC.....	3
	—
	30

SENIOR YEAR	SEM. HRS.
Agronomy 4052 ^{1,2,3} or Entomology 4001 ⁴	4-3
Area of concentration courses.....	10-9
Approved electives.....	12-15
Electives or ROTC.....	3
	—
	29-30

Areas of Concentration

◆ Agricultural Pest Management (29-32 hrs.)

Dairy Science 2072 or Biological Sciences 2153; Biological Sciences 4041 or 4055; Plant Health/Entomology 3002; Plant Health 4001; Agronomy 4070, 4071; Entomology 2001, 4006; Entomology 4001, 4012, Entomology/Plant Health 4018, Plant Health/Entomology 3000, Plant Health 4014 (select two)

A list of approved electives available in the Department of Entomology.

◆ Urban Entomology (31-32 hrs.)

Required Courses (31-32 hrs.)—Dairy Science 2072 or Biological Sciences 2153; Biological Sciences 2051; Entomology 2001; Plant Health/Entomology 3002; Entomology 4005, 4006, 4012; Entomology 4007, 4016, or Entomology/Plant Health 3000; Entomology/Plant Health 4018; Agronomy 4070 or 4071

A list of approved electives is available from the Department of Entomology.

DEPARTMENT OF EXPERIMENTAL STATISTICS

OFFICE • 161 Agricultural Administration Building
TELEPHONE • 225-578-8303
FAX • 225-578-8344
E-MAIL • head@stat.lsu.edu
WEB SITE • www.stat.lsu.edu

CURRICULUM:

• No undergraduate program is available. See the Graduate Bulletin for a description of the graduate program.

The Department of Experimental Statistics offers an undergraduate minor in applied statistics. Students take a 12-hour core of statistical methods and theory courses and an additional six hours chosen from a variety of more specialized courses that would best meet individual academic goals. (See the section "Minor Field Requirements" in this chapter for more information.) A minor in applied statistics provides valuable experience

in quantitative applications that enhance employment opportunities in a variety of fields as well as preparation for graduate study. Students interested in pursuing a minor in applied statistics are encouraged to declare and contact the department as early in the academic program as possible.

The Master of Applied Statistics offered by this department is designed to acquaint graduate students with the techniques of statistical methods and their application to various fields of specialization. For additional information concerning this program, consult the Graduate Bulletin.

DEPARTMENT OF FOOD SCIENCE

OFFICE • 111 Food Science Building
TELEPHONE • 225-578-5207
FAX • 225-578-5300

CURRICULUM:

• Food Science & Technology

FOOD SCIENCE & TECHNOLOGY

Food science has been ranked as one of the most enjoyable careers available to college graduates. Food science and technology encompasses everything in regards to food. Food scientists interface with the production practices and harvesting of raw food materials and marketing and merchandising of food while having main interests in providing safe, wholesome, healthy, and high quality food to consumers.

The curriculum in Food Science and Technology follows the national Institute of Food Technologists guidelines to provide a strong basic foundation for the study of post-production properties and processing of food products. Each of the five areas of concentration—food safety and applied microbiology, food processing and technology, food chemistry and analysis, food business and marketing, or pre-medical—allows students to gain a perspective of the entire food industry sectors of the food industry. Elective courses such as FDSC 3900 allow students to gain practical experience in research or product development. Internships with many various food companies are also available. After completing the curriculum in food science, students are prepared to enter into many different career paths in the food industry, to pursue graduate study, or enter professional programs such as medical school.

Food scientist students take courses in food chemistry, analysis, microbiology, engineering, and business to learn the techniques and basic information about research, development, processing, evaluation, packaging, and distribution of foods. The primary food properties of safety, taste, acceptability, quality, and nutrition are studied extensively. Opportunities are also available to interact with culinary programs in the preparation and presentation of food. Food technologists may work in food or food ingredient processing plants where raw foods are converted into beverages, cereals, canned foods, desserts and candy, dairy products, meat and seafood products, fruit and vegetable products, snacks and convenience foods, or nutritional and medical foods to oversee production practices, maintain quality

standards, and protect the safety of foods.

Food scientists may also work in research and development laboratories and pilot plants to create new or different food products or in analytical laboratories to measure food properties. Advanced studies allow students to conduct research investigations into the physical, chemical, and biological makeup of foods and study changes that occur during processing and storage. Food scientists may also be involved in health and nutrition of food because food is so important in the sustenance and well being of humans.

Each area of concentration allows students to gain specific expertise and knowledge in specific areas of food science and technology. The safety and shelf life of food are important to the industry and to consumers. The food safety and applied microbiology area of concentration enhances students' knowledge in the critical area of quality control and government regulation of food manufacturing. Students pursuing this concentration are prepared for careers in food safety, quality control, or regulatory fields.

The food processing and technology area of concentration provides students background knowledge in processing plant supervision, food engineering principles, and quality parameters of foods. The food chemistry and analysis area of concentration prepares students for careers in food quality assurance, technical services, and product development. Students in the food business/marketing area of concentration gain fundamental knowledge of foods and the food industry while studying the business aspects of the industry for careers in management, technical sales, or marketing in industry and government positions.

There is a strong relationship between food science, nutrition, and the medical field in prevention of disease, slowing aging, and finding solutions to problems like inflammation, cancer, and obesity. The pre-medical area of concentration prepares students for careers in health fields as physicians, medical assistants, or nurses, or for research in graduate school in the areas of health or food science.

The curriculum in food science and technology combines rigorous coursework in the fundamentals of food while providing fun application of the principles learned about the most important industry in nurturing and sustaining humans in our daily lives.

CURRICULUM IN FOOD SCIENCE & TECHNOLOGY

TOTAL SEM. HRS. • 122

*Required for pre-medical area of concentration

FRESHMAN YEAR	SEM. HRS.
Biological Sciences 1201, 1208, 1202, and 1209	8
Chemistry 1201, 1202, 1212	8
English 1001	3
Mathematics 1022 and 1441	6
General education arts course	3
	—
	28

SOPHOMORE YEAR	SEM. HRS.
Biological Sciences 2051	4
Biological Sciences 2083 or 4087*	3-4
Chemistry 2060 or 2261*	3
Communication Studies 2060	3

Economics 2030	3
English 2000	3
Food Science 2000	3
Human Ecology 2010	3
Physics 2001	3
Area requirements	3-2
	—
	31

JUNIOR YEAR	SEM. HRS.
English 3002	3
Experimental Statistics 2201	4
Food Science 4050, 4060, 4075, 4162	15
Area requirements	11
	—
	33

SENIOR YEAR	SEM. HRS.
Food Science 4005, 4040, 4070, 4076, 4095	16
Food Science 3999	1
General education humanities courses	6
General education social sciences course	3
Area requirements	0-4
Electives	4-0
	—
	30

Areas of Concentration

◆ Food Business and Marketing

Required Courses (18 hrs.)—choose from either (1) ACCT 2001; ECON 2035; FIN 3715; ISDS 1100; MGT 3200; MKT 3401; or (2) AGECE 1003, 2003, 3213, 3413, 4403; MGT 3200

Note: Students must choose to take one set of courses from either option one or option two.

◆ Food Chemistry and Analysis

Required Courses (15 hrs.)—CHEM 2001, 2002; DARY 2085, 2093; FDSC 3000; HORT 4096

◆ Food Processing and Technology

Required Courses (16 hrs.)—ANSC 3053 or ANSC 4094; FDSC 3000, 4086; DARY 4020; HORT 4051

◆ Food Safety and Applied Microbiology

Required Courses (14 hrs.)—BIOL 4110; FDSC 3000, 4163; DARY 4020

◆ Pre-Medical

Required Courses (17 hrs.)—CHEM 2262, 2364; PHYS 2002, 2108, 2109; BIOL 2153; PHIL 2025

DEPARTMENT OF PLANT PATHOLOGY & CROP PHYSIOLOGY

OFFICE • 302 Life Sciences Building
TELEPHONE • 225-578-1464
FAX • 225-578-1415
E-MAIL • plantpath@lsu.edu
WEB SITE • www.lsu.edu/ppcp

CURRICULUM:

• Plant and Soil Systems (Agricultural Pest Management Area)

PLANT AND SOIL SYSTEMS

The curriculum in plant and soil systems consolidates the curricula in the areas of agronomy, entomology, horticulture, and plant pathology and crop physiology. Students in this curriculum take core courses that provide a basic knowledge required for specialization in one of the seven areas of concentration: agricultural pest management, crop management, horticultural science, environmental horticulture, soil science, turf grass management, and urban entomology. Each area is further individualized by the addition of approved and free electives.

Students interested in pursuing a minor in agricultural pest management, agronomy, entomology, or horticulture may take suggested courses for the minor as part of the approved and free electives. (See the section on "Minor Field Requirements" in this chapter for details.)

The Department of Plant Pathology & Crop Physiology and the Department of Entomology offer an area of concentration in agricultural pest management and the Department of Entomology offers an additional area of concentration in urban entomology. The agricultural pest management concentration is an interdisciplinary program of study in weed science, plant pathology, and entomology. Effective management of pest problems in agriculture requires a broad base of knowledge in the pest disciplines and practical field experience. The agricultural pest management concentration features a strong core of courses in the three pest management disciplines; a strong background in agriculture, life and physical sciences; and practical training through an internship work experience. The urban entomology concentration is well suited for students who are interested in urban pest control, mosquito control, public health insect management, and forensic entomology for criminal justice.

In both concentrations, a range of restricted and nonrestricted electives allows students to personalize their degree program for employment with agricultural industries such as chemical, seed, or biotechnology companies; state and federal research, extension, and regulatory agencies; private agricultural consulting firms; farmer cooperatives; nurseries, home, and garden centers; golf courses; greenhouse plant production; corporate farms; urban pest control; public health insect management; and forensic entomology. Both concentrations require students to complete an internship providing practical experience in agricultural or urban pest management areas.

CURRICULUM IN PLANT AND SOIL SYSTEMS

TOTAL SEM. HRS. • 127-129

¹ For crop management and soil science areas of concentration

² For horticultural science; environmental horticulture, turfgrass management; and landscape management areas of concentration

³ For agricultural pest management area of concentration

⁴ For urban entomology area of concentration

⁵ For landscape management area of concentration

⁶ For horticultural science area of concentration

FRESHMAN YEAR	SEM. HRS.
Biological Sciences 1201, 1202, 1208, 1209 or 1001, 1002, 1005 ⁵	8
Chemistry 1201, 1202, 1212	8
English 1001	3
Mathematics 1021	3
Mathematics 1022 ² or Experimental Statistics 2201 ^{1,3,4}	3-4
General education arts course.....	3
General education social sciences course	3
General education humanities course	3
	—
	34-35

SOPHOMORE YEAR	SEM. HRS.
Agronomy 2051	4
Chemistry 2060 or 2261	3
English 2000	3
Agricultural Economics 2003 or Economics 2030	3
Communication Studies 2060	3
General education humanities course	3
Area of concentration courses	12-13
Approved electives.....	3-2
	—
	34

JUNIOR YEAR	SEM. HRS.
Biological Sciences/Plant Health 3060 ⁶ or Horticulture 2860	3-4
Agronomy 3010 or 3090 ¹ or Horticulture 3000 or 3010 ² or Plant Health/Entomology 3000 ^{3,4}	3
Plant Health 4000.....	3
Area of concentration courses	9-12
Approved electives.....	9-5
Electives or ROTC	3
	—
	30

SENIOR YEAR	SEM. HRS.
Agronomy 4052 ^{1,2,3} or Entomology 4001 ⁴	4-3
Area of concentration courses	10-9
Approved electives.....	12-15
Electives or ROTC	3
	—
	29-30

A list of approved electives is available from the Department of Plant Pathology & Crop Physiology.

Area of Concentration

◆ Agricultural Pest Management (29-32 hrs.)

Dairy Science 2072 or Biological Sciences 2153; Biological Sciences 4041 or 4055; Plant Health/Entomology 3002; Plant Health 4001; Agronomy 4070, 4071; Entomology 2001, 4006; Entomology 4001, 4012, Entomology/Plant Health 4018, Plant Health/Entomology 3000, Plant Health 4014 (select two)

SCHOOL OF ANIMAL SCIENCES

OFFICE • 105 J. B. Francioni Hall
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E-MAIL • ghay@agcenter.lsu.edu

CURRICULUM:

• Animal, Dairy, and Poultry Sciences (Animal Science Area, Dairy Production Area, Dairy Foods Technology Area, Poultry Science Area, Science and Technology Area, and Preveterinary Medicine)

The School of Animal Sciences offers programs in animal, dairy, and poultry sciences (animal, dairy, and poultry curriculum) that provide individuals with a broad educational background tailored to meet their needs and aptitudes. Such preparation provides graduates with employment opportunities in all phases of animal, dairy and poultry production, processing, distribution, marketing, research and teaching. Preparatory curricula also are provided for subsequent training at the graduate level or in veterinary medicine.

Qualified undergraduate students have the opportunity to participate in the Summer Internship Program with well-paid stipends. This program integrates academic experience on campus with work experience off campus, providing a total educational experience that prepares the student for responsible participation in industry following graduation.

ANIMAL, DAIRY, AND POULTRY SCIENCES

Students take basic courses during the first two years and follow a selected area of concentration during the junior and senior years. Within each area of concentration, students select approved and free electives. Students interested in choosing an approved minor can take the suggested courses for the minor as part of approved and free electives. See the listing of College of Agriculture minors for details.

Prior to entering the program, students are encouraged to consult a counselor for guidance in scheduling courses. Those students interested in entering the School of Veterinary Medicine must take BIOL 1201 and 1208, 1202 and 1209, 2051, 2083; CHEM 2261, 2262, 2364 or CHEM 2060; MATH 1021 and 1022; PHYS 2001 and 2002; and CMST 2010 or 2060 to meet admission requirements.

Graduates of the animal, dairy, and poultry sciences curriculum find career opportunities in a variety of production enterprises and animal-related agribusinesses, such as commercial livestock, dairy, and poultry enterprises; feed, pharmaceutical, and supply companies; commodity processing and food product industries; and various state and federal agencies including the cooperative extension service. Students selecting the science-directed electives are prepared to enter graduate school.

CURRICULUM IN ANIMAL, DAIRY, AND POULTRY SCIENCES

TOTAL SEM. HRS. • 124

**The number of credit hours in each group in the junior and senior years depends on the area of concentration. The total for each year must equal that specified in the curriculum.*

¹If a student has taken BIOL 1001, 1002, and 1005, then BIOL 1011 and 1012 must be taken in the sophomore year instead of BIOL 2051.

²If a student chooses the science and technology area of concentration, the freshman biological sciences courses must be BIOL 1201, 1208, 1202, 1209.

FRESHMAN YEAR	SEM. HRS.
Animal Science 1011, or Dairy Science 1048, or Poultry Science 1049	3
Biological Sciences 1001, 1002, 1005, ¹ or Biological Sciences 1201, 1208, 1202, 1209, ² or HNRS 1007, 1008.....	8
Chemistry 1201, 1202, 1212	8
English 1001 or 1003	3
Mathematics 1021; 1022 or 1431 or 1550.....	6-8
General education arts course	3
	—
	31-33

SOPHOMORE YEAR	SEM. HRS.
Dairy Science 2072 or Biological Sciences 2153	3-4
Biological Sciences 2051	4
Chemistry 2060 or 2261.....	3
Economics 2030 or AGEC 2003	3
English 2000	3
Communication Studies 2010 or 2060	3
General education humanities courses.....	6
General education social sciences course	3
Area of concentration course	3
	—
	31-32

JUNIOR YEAR	SEM. HRS.
Experimental Statistics 2201.	4
Area of concentration courses*	10-18
Electives or ROTC*	14
	—
	28-36

SENIOR YEAR	SEM. HRS.
Area of concentration courses*	5-17
Electives or ROTC*	13
	—
	18-30

Areas of Concentration

◆ Animal Science

Required Courses (34-37 hrs.)—ANSC 2133, 3033, 3053, 4009, 4092; EXST 2000; VETS 2000 or 2020. Select ANSC 4018, 4045, and DARY 3010, and any two from ANSC 4001, 4081, 4084, 4086, 4088; or select ANSC 4094; FDSC 2000, 4040, 4162; and either FDSC 4005 or 4050.

◆ Dairy Production

Required Courses (32 hrs.)—DARY 2040, 2049, 2075, 2085, 3010, 4043, 4045, 4046, 4047, 4051, 4054, 4118, ANSC 4009 and ANSC 4092.

Approved Electives (15 hrs.)—Select 15 hours from the approved electives list available from the School of Animal Sciences.

◆ Dairy Foods Technology

Required Courses (31 hrs.)—DARY 2075, 2085, 2093, 4020, 4040, 4051, 4081; AGEC 3413, 4213, FDSC 3000; HUEC 2010; ANSC 4092.

Approved Electives (18 hrs.)—Select 18 hours from the approved electives list available from the School of Animal Sciences.

◆ Poultry Science

Required Courses (30-32 hrs.)—PLSC 2040, 4032, 4052; PLSC 4031 or FDSC 4005; PLSC 4051 or 4040 and ANSC 4092. Students must also take a total of 16 hrs. from 2000-level and above ANSC, DARY, or PLSC courses, and/or any FDSC courses.

◆ Science and Technology

Required courses (45 hrs.)—Select at least 16 hours from courses in ANSC, DARY, PLSC, or VETS 2000, 2020; 16 hours from BIOL 3000-4999, CHEM 2000-4999, PHYS 2000-4999, or NS 4000-4999, or EXST 2000. *Animal Science Emphasis* (13 hrs.)—ANSC 4092 and 12 hours from any ANSC courses (2000-4000 level).

Dairy Science Emphasis (13 hrs.)—ANSC 4092 and 12 hours from any DARY courses (2000-4000 level).

Poultry Science Emphasis (13 hrs.)—ANSC 4092 and 12 hours from any PLSC courses (2000-4000 level).

◆ Preveterinary Medicine

Required Courses (38 hrs.)—completion of first year of LSU School of Veterinary Medicine curriculum with a gpa of at least 2.00.

Animal, Dairy, Poultry, and Veterinary Science course (15 hrs.)—Select ANSC, DARY, or PLSC courses (2000-level and above) or VETS 2000, 2020.

Students entering the School of Veterinary Medicine after completion of the first three years of the animal, dairy, and poultry sciences curriculum (93 hours) may receive the BS degree following successful completion of the first year of the professional curriculum in veterinary medicine. (See the School of Veterinary Medicine Bulletin for details of the first year of the professional curriculum.)

Students pursuing this program will be required to establish residence in the College of Agriculture for 30 semester hours prior to entering the School of Veterinary Medicine. They also must make application for the degree through the dean's office in the College of Agriculture no later than 15 days after classes begin in the semester in which the degree is to be awarded.

SCHOOL OF HUMAN ECOLOGY

OFFICE • 125 Human Ecology Building
TELEPHONE • 225-578-2281
FAX • 225-578-2697
WEB SITE • www.huec.lsu.edu
E-MAIL • humanecology@lsu.edu

CURRICULA:

- Child and Family Studies
- Nutritional Sciences
- Textiles, Apparel, and Merchandising

The School of Human Ecology offers undergraduate and graduate programs to prepare students for professional careers in the specialty areas.

The following undergraduate curricula are offered: nutritional sciences (dietetics and nutritional science/premedical concentrations); child and family studies (child & family studies and early childhood

administration and leadership concentrations); and textiles, apparel design, and merchandising (textile science, apparel design, and merchandising concentrations). Each curriculum provides the student with a concentrated professional sequence in an area of specialization, the necessary supporting courses in basic sciences and/or arts, and a broad general education.

All undergraduate programs are fully accredited by the Council for Professional Development of the American Association of Family and Consumer Sciences. In addition, specialized accreditation is offered by the American Dietetic Association.

Graduates are prepared to pursue professional careers in such areas as dietetics, medicine, public health, human services, cooperative extension service, business, education, research, retailing, apparel and textile industries, and international service. Human Ecology academic programs, research, and service focus on the family as a system and the interaction of families and individuals in their near and global environments.

CURRICULUM IN CHILD AND FAMILY STUDIES

TOTAL SEM. HRS. • 121

Course work provides students with the background needed to subsequently pursue exciting and challenging careers in working with families, children, or consumer-related agencies. Employers include cooperative extension; non-profit and private agencies; faith-based organizations; consumer and business agencies and organizations; and federal, state, and local government. Many students pursue a graduate degree in Child and Family Studies or in closely related fields such as social work, counseling, and marriage and family therapy.

The Child and Family Studies undergraduate curriculum is unique from most social sciences programs in that it provides extensive classroom and field preparation for students who plan to enter the workforce upon receiving their BS degree. A practicum experience during the junior year allows students to gain field experience at an agency of their choosing. Field experience is expanded during the senior year to include a more intensive semester-long field internship at another student-selected agency, thereby offering students entree into the field of interest to them and providing them with post-graduation employment possibilities. Graduates with a concentration in Child and Family Studies are eligible to apply to the National Council on Family Relations for the provisional Certified Family Life Educator (CFLE) credential.

**If two course natural science sequence is taken in the life sciences, the additional three-hour natural science course must be from the physical sciences, and vice versa.*

Courses marked with + are a requirement for the child and family studies concentration.

Courses marked with ++ are a requirement for the early childhood administration and leadership concentration.

FRESHMAN YEAR	SEM. HRS.
English 1001 or 1004	3
Human Ecology 1000	3
Mathematics 1021	3
Biological Sciences 1001*	3
General education natural science courses* ..	6
General education art course	3
General education humanities course	6
Electives <i>or</i> area of concentration course ⁺⁺ ...	3
	30

SOPHOMORE YEAR	SEM. HRS.
Kinesiology 2600	3
Economics 2030	3
Communication Studies, 2040, 2060, 2063, 2862 or 2010	3
English 2000	3
Experimental Statistics 2201	4
Human Ecology 2050 and 2065	6
Psychology 2004, 2040 or 2000 ⁺	3
Sociology 2001	3
Political Science 2051 <i>or</i> 2070	3
	31

JUNIOR YEAR	SEM. HRS.
Human Ecology 3055	4
Human Ecology 3060 and 3067	7
Area of concentration courses	6 ⁺ -18 ⁺⁺
Electives	12 ⁺ -0
	29

SENIOR YEAR	SEM. HRS.
Human Ecology 3090 and 4064	5
Human Ecology 4067 and 4052	11
Area of concentration courses	12
Elective	3
	31

Areas of Concentration

◆ Child & Family Studies

Required Courses (18 hrs.): HUEC 3065, 4051, 4065; PSYC 4072; SOCL 4461 or 4511 or 4701 or PSYC 4035; SOCL 3601 or SW 3002 or 3003.

◆ Early Childhood Administration and Leadership

Required Courses (36 hrs.): HRE 2723, 3071; HUEC 2083, 3056, 3057, 3058, 3381, 3382, 3383, 4060, 4382; EDCI 2700.

CURRICULUM IN NUTRITIONAL SCIENCES

The nutritional sciences curriculum prepares students for careers in the health professions specifically in dietetics, medicine, or related fields. The dietetics concentration is currently accredited as a Didactic Program in Dietetics (DPD) by the Commission on Accreditation for Dietetics Education (CADE) of the American Dietetics Association (ADA), a specialized accrediting body recognized by the U.S. Department of Education and the Council for Higher Education Accreditation (CHEA). Students successfully completing this program will receive a verification statement that allows them to apply for a CADE accredited dietetic internship. This internship is required before students are eligible to sit for the registry examination to become a registered dietitian.

Registered dietitians provide expertise in nutrition and food service management in a variety of settings, including public and private schools, universities, hospitals, clinics, health care centers, the armed services, research laboratories, commercial and industrial establishments, and local, state, and federal health programs. The nutrition science/pre-medical concentration provides students with a strong grounding in nutrition science while meeting the course work requirements for students planning to apply to medical, dental, or graduate school. Since nutrition plays a role in many chronic and acute disease processes, understanding of the role of nutrients in the body provides premedical students with a strong basis for building their medical careers.

Requirements for Graduation

Students must earn a grade of "C" or better in all required HUEC courses, as well as BIOL 2160 and 2083 (dietetics concentration) or BIOL 4087 and 4160 (nutritional science/premedical concentration).

TOTAL SEM. HRS. • 128

FRESHMAN YEAR	SEM. HRS.
Biological Sciences 1201	3
Chemistry 1201, 1202	6
English 1001	3
Human Ecology 1000, 2010	6
Mathematics 1431 ¹ or 1550	3-5
General education humanities course	3
Area of concentration courses	5-7
Electives	5-1
	—
	34

SOPHOMORE YEAR	SEM. HRS.
Communication studies 2060 or 2010	3
English 2000	3
Experimental Statistics 2201	4
Human Ecology 2110, 2019	6
General education social science course ²	3
Area of concentration requirements	13-12
Electives	0-1
	—
	32

JUNIOR YEAR	SEM. HRS.
Human Ecology 3010, 3012, 3116	9
General education social science course ³	3
Three hours chosen from 2000-level and above general education English courses or HNRS 2002, 2004, 3001, 3003	3
Area of concentration courses	14-12
Electives	2-4
	—
	31

SENIOR YEAR	SEM. HRS.
Human Ecology 4010, 4011, 4013, 4014, 4017, 4021, 4110	17
Area of concentration requirements	3
General education arts course	3
Electives	8
	—
	31

¹Dietetics students may elect either MATH 1431 or 1550; nutritional/premed majors must take MATH 1550.

²Dietetics students must elect to take PSYC 2000; nutritional/premed majors may take any general

education social science elective.
³Dietetics students must elect to take ECON 2030 or AGECE 2003. Nutrition/premed majors may take any general education social science elective.

Areas of Concentration

◆ Dietetics

Required Courses (35 hrs.): ACCT 2000; BIOL 1011, 1012, 2083, 2160; CHEM 2060; HUEC 1021, 2014, 3019, 3021, 4016, 4023; MGT 3200

◆ Nutritional Science/Premedical

Required Courses (34 hrs.): BIOL 1202, 1208, 1209, 2153, 4087, 4160; CHEM 1212, 2261, 2262, 2364; PHYS 2001, 2108, 2002, 2109

CURRICULUM IN TEXTILES, APPAREL, AND MERCHANDISING

TOTAL SEM. HRS. • 120

To prepare students for professional careers in the textile and apparel industries, which are interconnected and global in nature, this curriculum provides an integrated, multi-functional academic experience. Students focus on the design, development, and marketing of textile and apparel products and are encouraged to develop a broad based problem solving perspective through synthesis of concepts, course work, and work experiences. Students concentrate on a component of the textile/apparel industry complex by selecting textile science, apparel design, or merchandising as a program area. Graduates pursue careers with textile and apparel manufacturers, retailers, testing laboratories, government agencies, media firms, or they may open their own businesses.

FRESHMAN YEAR	SEM. HRS.
Human Ecology 1000	3
English 1001	3
Mathematics 1021	3
General education social sciences course	3
Human Ecology 2032	4
General education arts course	3
Mathematics 1022*, or 1431, or EXST 2201	3-4
General education physical or life science course sequence or CHEM 1201*, 1202*	6
General education natural sciences in area other than previously selected (both physical and life sciences must be taken)	3
	—
	31

SOPHOMORE YEAR	SEM. HRS.
Accounting 2000 or 2001	3
Economics 2030	3
English 2000	3
Human Ecology 2040, 2041	4
Human Ecology 2045	3
General education humanities course	3
Area of concentration courses	10
	—
	29

JUNIOR YEAR	SEM. HRS.
Communication Studies 2060	3
General education humanities course	3
Area of concentration courses	12
Human Ecology 3032, 3045	6

Management 3200	3
Marketing 3401	3
	—
	30

SENIOR YEAR	SEM. HRS.
Area of concentration courses	2-6
Human Ecology 4034	3
Human Ecology 4044	3
Human Ecology 4071, 4072	6
Approved elective—HUEC 3030 or 4041 or 4043	3
Electives	13-9
	—
	30

* Textile Science students must select MATH 1022, CHEM 1201 and 1202.

Areas of Concentration

◆ Apparel Design (25 hrs.)

Required Courses—HUEC 2037, 3037, 3230, 3232, 4037, 4045, 4047 or 4070

◆ Merchandising (24 hrs.)

Required Courses—HUEC 3042, 3043, 4046, 4070; MGT 3320 or PSYC 3050; MC 2525 or MKT 4443; and HUEC 4047 or 6 hours of approved course work.

◆ Textile Science (28 hrs.)

Required Courses—EXST 2201; MATH 1550, 1552; CHEM 1212, 2001, 2002, 2261; PHYS 2001 or 2101; HUEC 4047

OTHER PROGRAMS

Early Childhood Education: PK-3 Teacher Certification

The College of Education in collaboration with the School of Human Ecology offers a degree program in early childhood education: PK-3 teacher certification. Students earn a bachelor of science degree from the College of Education. Students must be admitted to the College of Education and follow the admission and degree requirements established by the college.

CURRICULUM IN EARLY CHILDHOOD EDUCATION: PK-3 TEACHER CERTIFICATION

TOTAL SEM. HRS. • 125-127

FRESHMAN YEAR	SEM. HRS.
Biological Sciences 1001	3
EDCI 1000	3
English 1001 or 1004	3
Geography 1001 or 1003	3
Geology 1001	3
Human Ecology 1000	3
Mathematics 1021 or 1023 or 1029 and 1100	6-8
Select 3 hours from ART 1001 or 1011 or ARTH 1440 or 2470 or Music 1751 or 1752 or 1755 or 1799 or 2000	3
Select 3 hours from Biological Sciences 1002 or Geology 1003	3
Political Science	3
	—
	33-35

SOPHOMORE YEAR	SEM. HRS.
English 2000	3
EDCI 2030, 2081, 2700	7
ELRC 2507	3
Six hours chosen from English courses on the general education humanities list	6
History 2055 or 2057	3
Human Ecology 2065, 2083	6
Mathematics 1201 and 1202	6
	34
JUNIOR YEAR	SEM. HRS.
EDCI 3000	3
Human Ecology 3055, 3056	7
PROFESSIONAL PRACTICE	
BLOCK I: PK/K Human Ecology 3381, 3382, 3383	9
PROFESSIONAL PRACTICE	
BLOCK II: Grades 1-3 EDCI 3481, 3482, 3483	9
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	28
SENIOR YEAR	SEM. HRS.
PROFESSIONAL PRACTICE	
BLOCK III: PK/K Human Ecology 4381, 4382	15
PROFESSIONAL PRACTICE	
BLOCK IV: Grades 1-3 EDCI 4481, 4482	15
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	30

SCHOOL OF HUMAN RESOURCE EDUCATION & WORKFORCE DEVELOPMENT

OFFICE • 142 Old Forestry Building
TELEPHONE • 225-578-5748
FAX • 225-578-5755

CURRICULUM:

- Human Resource Education
- Agricultural Education
- Business Education
- Family and Consumer Science Education
- Marketing Education

The curriculum in human resource education is offered with areas of concentration in adult, extension, and international education; career development; and human resource leadership and development. The curricula for agricultural education, business education, family and consumer science education, and marketing education are designed to meet requirements for Louisiana teacher certification in grades 6-12. Master's and doctoral programs also are available. For additional information, see the Graduate Bulletin or contact the School of Human Resource Education & Workforce Development.

The State Board for Career and Technical Education has designated LSU as a teacher education center for the preparation of career and technical education teachers, making LSU eligible for Federal funds under national career and technical education acts.

The School of Human Resource Education & Workforce Development is accredited by the National Council for Accreditation of Teacher Education and is a member of the University Council for Workforce and Human Resource Education, a national consortium of leading research universities.

ADMISSION TO THE SCHOOL

General Students • Students are eligible for admission to the school in accordance with admission and retention requirements prescribed by the College of Agriculture.

Students Seeking Teacher Certification • The teacher education program in career and technical education is administered jointly by the Colleges of Agriculture and Education. Students are admitted to programs leading to certification in adult education, agricultural education, business education, family and consumer science education, and marketing education according to the following:

- Students from other LSU senior colleges who have completed a minimum of 24 semester hours with a 2.20 grade point average on all work taken are considered for provisional admission to the career and technical teacher education program. For regular admission, students must have a 2.50 cumulative and LSU grade point average and passing scores on all parts of the Praxis I Series or minimum ACT composite score of 22 or minimum SAT composite score of 1030.
- A minimum grade point average of 2.50, cumulative and LSU, is required for entry into and continuation in upper (3000/4000) level human resource education courses, including student teaching.
- Transfer students from accredited colleges and universities who have met the entrance requirements of the University, who are eligible for admission to a senior college, and who meet the requirements listed above will be considered for admission to the teacher education program.
- Students on University scholastic and attendance probation will not be admitted to a teacher education program.

Public Management Program

OFFICE • 201 Old Forestry Building
TELEPHONE • 225-578-6645
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The *Public Management Program* (PMP) serves as the research-to-practice affiliate for the Human Resource Education (HRE) program within the School of Human Resource Education and Workforce Development. Incorporating research-based theory and current best practices, this unit offers a comprehensive array of human resource development activities to the public sector on a state, national, and international level. Specific activities include: training program design and delivery; strategic planning services; performance improvement on an individual, work group, and organizational level; process improvement; performance evaluation; adult literacy program development and delivery; curriculum design; program evaluation; organizational development strategies; workplace literacy program development and delivery; career development strategies; succession planning activities; and competency model development and implementation. PMP offers seminars, consultation services, and in-service training programs through traditional classroom instruction as well as state of the art technology-based collaborative learning methodologies. The unit also develops and

publishes research quality documents (both internally and through peer review systems) on various governmental and organizational issues. These services are provided by Public Management staff and University professors.

This unit is designated as the sponsoring agency for the *Comprehensive Public Training Program* (CPTP), a training and educational program authorized by the 1979 Louisiana Legislature. CPTP is designed to increase the skill and knowledge of state employees and non-elected officials. The *Certified Public Manager Program* (CPM), a nationally recognized and accredited certification program, is open to persons holding a management position within state government or nominated by the supervisors for promotion to such a position. The CPM curriculum includes 300 instructional hours in management and approved elective courses. On completion of the program, participants are awarded the Certified Public Manager (CPM) designation.

CURRICULUM IN HUMAN RESOURCE EDUCATION

Students completing this curriculum are prepared for a wide range of employment options including adult, extension, and continuing education; career development; training and development in business and industry; and human resource development.

The curriculum offers the student an opportunity to select among three paths:

- Adult, Extension, and International Education
- Career Development
- Human Resource and Leadership Development

Students following one of the three paths will develop a 50-hour technical core in consultation with a faculty advisor.

Students interested in the study of training and development/human resource development should apply for the human resource and leadership development path. A special program of courses is available to prepare students for training and development careers in business, industry, and government. Students graduating from this program typically pursue careers in training and development, human resource development, training administration and consulting, classroom instruction, management development, career development, and technical training. While sharing some courses with the adult education emphasis, this program emphasizes the application of education methodologies in the workplace and the unique needs of business, industry, and government.

This path includes study in principles of adult education, principles of training and development, instructional design methodologies, training delivery, administration of training programs, educational psychology, and workplace learning. Emphasis is placed on developing training professionals who have a variety of methodologies and skills to be able to respond to the diverse needs of the modern workplace. Students are also expected to develop a content specialization outside the training core as part of their program of study. The path includes sufficient flexibility for students to tailor the program to fit their career objectives. Students interested in this area

should contact the school prior to admission.

TOTAL SEM. HRS. • 132

¹Required for Human Resource and Leadership Development and Adult, Extension, and International Education concentrations.

FRESHMAN YEAR	SEM. HRS.
English 1001 or 1004	3
Mathematics 1021 and 1431 ² or any general education analytical reasoning course	6
General education natural sciences sequence	6
General education humanities course	3
Technical core courses	12
Electives	3
	—
	33
SOPHOMORE YEAR	SEM. HRS.
English 2000	3
HRE 2001	3
General education arts course	3
General education natural sciences course	3
Experimental Statistics 2000 or approved computer related course	3
Technical core courses	8
Electives or HRE 3071 ¹ and EXST 2201 ¹ or SOCL 2201 ¹ and elective	10
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	33
JUNIOR YEAR	SEM. HRS.
HRE 3201 or 3271 ¹	3
Economics 2030	3
General education humanities course	3
HRE 4601 or 4603 ¹	3
Technical core courses	18
Electives	3
	—
	33
SENIOR YEAR	SEM. HRS.
General education social sciences course (SOCL 2001 or ANTH 1003 ¹ , ANTH 2051 ¹ , or INTL 2000 ¹)	3
General education humanities communication studies course or CMST 2010 or 2060 ¹	3
HRE 4809 or 4025 ¹	3
HRE 4301	3
Technical core courses	12
HRE 4804 ¹	9
	—
	33

Areas of Concentration

◆ Adult, Extension, and International Education

Students must complete the requirements for the human resource education curriculum as shown in the catalog. For the 50 hours of technical courses required in that curriculum, students must complete the following courses: MGT 4620; HRE 3171; HRE 3571; PSYC 4032; HRE 4571; HRE 4805 (1 hr.); 3 hours from CMST 2010, 2060, 2061, 2064; 12 hour block of approved adult education specialization courses; choose either a second 12 hour block of approved specialization courses or 12 hours from a list of electives approved by the faculty; and seven hours of electives.

◆ Career Development

Technical Core Courses—50 hours:
HRE 3055, 3331, 3605, 4025, 4301, 4585, 4704, 4705, 4809; 12 hours which must include three hours from economics, three hours from management, and six hours from psychology/sociology chosen from ECON 2035, 4020, 4140, 4210, 4220, 4230; MGT 3200, 3320, 3500, 4322, 4620; PSYC 2000, 3050; SOCL 2001, 2351, 4331, 4511, 4521; 11 hours chosen from courses above or from ELRC 4360, 4365, 4600, 4601; GEOG 1001, 1003, 2062; HUEC 4050; CMST 2010; SW 3008, 4005

The focus in career development is on goals of individuals and organizations and how each effectively meets the needs of the other. Through career planning, management, and development, the individual is given direction and purpose while present and future needs of the organization are also met.

Career development specialists help assess personal competencies and goals; identify, plan, and implement career actions; give counsel concerning the appropriate preparation for a given occupation; and explore career opportunities.

Students complete a block of 50 technical hours based on their specific career goals, and an internship provides practical work experience in an organization.

◆ Human Resource and Leadership Development

Students must complete the requirements for the human resource education curriculum as shown in the catalog. For the 50 hours of technical courses required in that curriculum, students must complete the following courses: MGT 4620; HRE 3171; HRE 3571; PSYC 4032; HRE 4571; HRE 4805 (1 hr.); 3 hours from CMST 2010, 2060, 2061, 2064; 12-hour block of approved human resource and leadership development courses; choose either a second 12-hour block of approved specialization courses or 12 hrs from a list of electives approved by the faculty; and seven hours of electives.

REQUIREMENTS FOR TEACHER CERTIFICATION IN CAREER AND TECHNICAL EDUCATION AREAS

The Louisiana teacher certification path prepares a student for certification in one of the four career and technical education areas: agricultural education, business education, family and consumer science education, and marketing education. Although most of these graduates enter the teaching profession, experience has demonstrated that people who hold a state teaching certificate find employment in a wide variety of other related professions.

Requirements for teacher certification in career and technical education areas include the following:

Admission Requirements

- Students from other LSU senior colleges who have completed a minimum of 24 semester hours with a 2.20 grade point average on all work taken are considered for provisional admission to the career and technical teacher education program. For

regular admission, students must have a 2.50 cumulative and LSU grade point average and passing scores on all parts of the Praxis I Series or minimum ACT composite score of 22 or minimum SAT composite score of 1030.

Retention Requirements

- Minimum cumulative and LSU grade point average of 2.50 for entry into and continuation in upper (3000/4000) level human resource education courses, including student teaching

Degree Requirements

- Satisfactory completion of an approved program of study as determined by all of the following: faculty of the School of Human Resource Education & Workforce Development, the University, the LSU P-12 Education Advisory Council, and the Louisiana Board of Elementary and Secondary Education.
- Minimum cumulative and LSU gpa of 2.50 on all work completed
- Passing scores on all required parts of the Praxis II Series
- Grade of "C" or higher in course work as specified by the Louisiana Board of Elementary and Secondary Education
- Proficiency in English
- Completion of all methods courses

Students may also complete standard certification requirements in adult education. In addition, students may complete course work appropriate for the state alternative certification program.

Students interested in any program leading to teacher certification should contact the School of Human Resource Education & Workforce Development for application information, deadlines, and specific details about each program. Students interested in a teacher certification program other than those included here should contact the College of Education.

Students who anticipate entering the teacher certification program should inform the faculty advisor at the time the undergraduate program of study is being developed.

CURRICULUM IN AGRICULTURAL EDUCATION

This teacher certification major prepares students for teaching agricultural education in secondary schools (grades 6-12), for working in agricultural business, and for serving as county extension agents. Course work is provided in various areas of agriculture, including plant and animal sciences and agricultural economics. Professional education is offered through courses in methods and techniques for training youth and adults.

Students complete a 51-hour technical core. The technical hours will cover the requirements for the primary teaching focus area and for the secondary teaching focus area. For the *primary teaching focus area*, the following 32 technical hours are required: AGEC 1003, AGEC 2003, AGRI 1001 (1 hr.), AGRO 1001, AGRO 2051 (4 hrs.), ANSC 1011, DARY 1048, ENTM 2001, HORT 2050 (4 hrs.), RNR 1004 (2 hrs.), and VETS 2020. For the remaining technical hours, students

will select an area for the *secondary teaching focus*. The secondary teaching focus areas include biology, English, math, social studies, and other areas as approved by Louisiana teacher certification. Courses from the general education requirements may be used to fulfill a portion of the secondary teaching focus course work. Students will develop a plan of study in consultation with a faculty advisor.

TOTAL SEM. HRS. • 132

FRESHMAN YEAR	SEM. HRS.
English 1001	3
General education analytical reasoning: Mathematics 1021, Mathematics 1100 or 1431	6
General education natural sciences sequence: Biological Sciences 1001 or 1201 and Biological Sciences 1002 or 1202	6
General education natural sciences course: Chemistry 1001 or 1201	3
General education arts course	3
Human Resource Education 2001	3
Technical core courses	9
	—
	33

SOPHOMORE YEAR	SEM. HRS.
English 2000	3
General education humanities course: History 2055 or 2057	3
General education social science course: Curriculum & Instruction 2001	3
Experimental Statistics 2000 or Computer Science 1100 or Human Resource Education 4252	3
Psychology 2060 and 2078	6
Human Resource Education 3101	3
Kinesiology 2601	1
Technical core courses	12
	—
	34

JUNIOR YEAR	SEM. HRS.
General education social science course: Economics 2030	3
General education humanities course: English 2673	3
General education humanities course: Communication Studies 2010 or 2060	3
Human Resource Education 3201	3
Human Resource Education 3603	1
Human Resource Education 3604	1
Human Resource Education 3605	1
Human Resource Education 4201	3
Curriculum & Instruction 3136 and 4800	6
Technical core courses	11
	—
	35

SENIOR YEAR	SEM. HRS.
Human Resource Education 4200	3
Human Resource Education 4301	3
Human Resource Education 4601	3
Technical core courses	12
Human Resource Education 4806	9
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	30

CURRICULUM IN BUSINESS EDUCATION

This teacher certification major prepares students for teaching business education in secondary schools (grades 6-12) and for working as professionals in supervisory,

management, and support positions in modern office environments. Knowledge and skills are acquired in general office systems, information processing, computing, and communications. In addition, skills such as problem solving, decision making, and human relations are emphasized.

Career opportunities may be found in business, industry, education, and governmental agencies. Students complete technical hours in business education, which may include accounting, communications, management, marketing, finance, economics, and information processing.

Students complete a 51-hour technical core. The technical hours will cover the requirements for the primary teaching focus area and for the secondary teaching focus area. For the *primary teaching focus area*, the following 32 technical hours are required: ACCT 2001, ACCT 2101, BLAW 3201, CSC 1200, HRE 2000, HRE 3200, HRE 4252, HRE 4705, MGT 3200, MKT 3401, and an approved elective (2 hrs.). For the remaining technical hours, students will select an area for the *secondary teaching focus*. The secondary teaching focus areas include biology, English, math, social studies, and other areas as approved by Louisiana teacher certification. Courses from the general education requirements may be used to fulfill a portion of the secondary teaching focus course work. Students will develop a plan of study in consultation with a faculty advisor.

TOTAL SEM. HRS. • 132

FRESHMAN YEAR	SEM. HRS.
English 1001	3
General education analytical reasoning: Mathematics 1021, Mathematics 1100 or 1431	6
General education natural sciences sequence: Biological Sciences 1001 or 1201 and Biological Sciences 1002 or 1202	6
General education natural sciences course: Chemistry 1001 or 1201	3
General education arts course	3
Human Resource Education 2001	3
Technical core courses	9
	—
	33

SOPHOMORE YEAR	SEM. HRS.
English 2000	3
General education humanities course: History 2055 or 2057	3
General education social science course: Curriculum & Instruction 2001	3
Experimental Statistics 2000 or Computer Science 1100 or Human Resource Education 4252	3
Psychology 2060 and 2078	6
Human Resource Education 3101	3
Kinesiology 2601	1
Technical core courses	12
	—
	34

JUNIOR YEAR	SEM. HRS.
General education social science course: Economics 2030	3
General education humanities course: English 2673	3
General education humanities course: Communication Studies 2010 or 2060	3
Human Resource Education 3201	3
Human Resource Education 3603	1

Human Resource Education 3604	1
Human Resource Education 3605	1
Human Resource Education 4201	3
Curriculum & Instruction 3136 and 4800	6
Technical core courses	11
	—
	35

SENIOR YEAR	SEM. HRS.
Human Resource Education 4200	3
Human Resource Education 4301	3
Human Resource Education 4601	3
Technical core courses	12
Human Resource Education 4806	9
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	30

CURRICULUM IN FAMILY AND CONSUMER SCIENCE EDUCATION

This teacher certification major prepares students for teaching family and consumer science education in secondary schools (grades 6-12) and for employment opportunities in business, industry, the Cooperative Extension Service, and governmental agencies. Family and consumer science education includes:

- Broad-based studies of topics including textiles and apparel; human food and nutrition; family relationships; child development; housing equipment and furnishings; resource management, and consumer economics.
- Professional education with early and continuing field experiences in areas of educational and adolescent psychology; presentation skills; instructional techniques; management of the learning environment; principles of career and technical education; and a professional internship.

Students complete a 51-hour technical core. The technical hours will cover the requirements for the primary teaching focus area and for the secondary teaching focus area. For the *primary teaching focus area*, the following 32 technical hours are required: HUEC 1000, HUEC 2010, HUEC 2014 (4 hrs), HUEC 2040, HUEC 2041(1 hr.), HUEC 2050, HUEC 2065, HUEC 3010, HUEC 3055, KIN 2600, and SOCL 2001. For the remaining technical hours, students will select an area for the *secondary teaching focus*. The secondary teaching focus areas include biology, English, math, social studies, and other areas as approved by Louisiana teacher certification. Courses from the general education requirements may be used to fulfill a portion of the secondary teaching focus course work. Students will develop a plan of study in consultation with a faculty advisor.

TOTAL SEM. HRS. • 132

FRESHMAN YEAR	SEM. HRS.
English 1001	3
General education analytical reasoning: Mathematics 1021, Mathematics 1100 or 1431	6
General education natural sciences sequence: Biological Sciences 1001 or 1201 and Biological Sciences 1002 or 1202	6
General education natural sciences course: Chemistry 1001 or 1201	3
General education arts course	3

Human Resource Education 2001	3
Technical core courses	9
	—
	33
SOPHOMORE YEAR	SEM. HRS.
English 2000	3
General education humanities course:	
History 2055 or 2057	3
General education social science course:	
Curriculum & Instruction 2001	3
Experimental Statistics 2000 or Computer Science 1100 or Human Resource Education 4252	3
Psychology 2060 and 2078	6
Human Resource Education 3101	3
Kinesiology 2601	1
Technical core courses	12
	—
	34
JUNIOR YEAR	SEM. HRS.
General education social science course:	
Economics 2030	3
General education humanities course:	
English 2673	3
General education humanities course:	
Communication Studies 2010 or 2060	3
Human Resource Education 3201	3
Human Resource Education 3603	1
Human Resource Education 3604	1
Human Resource Education 3605	1
Human Resource Education 4201	3
Curriculum & Instruction 3136 and 4800	6
Technical core courses	11
	—
	35
SENIOR YEAR	SEM. HRS.
Human Resource Education 4200	3
Human Resource Education 4301	3
Human Resource Education 4601	3
Technical core courses	12
Human Resource Education 4806	9
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	30

CURRICULUM IN MARKETING EDUCATION

This teacher certification major prepares students for teaching marketing education in secondary schools (grades 6-12) and for employment opportunity in advertising, fashion merchandising, travel and tourism, financial services, food marketing, hospitality, and distribution and warehousing. Course work is provided in various areas of business, including accounting, communications, management, marketing, finance, economics, and entrepreneurship. Career opportunities may be found in business, industry, education, and governmental agencies.

Students complete a 51-hour technical core. The technical hours will cover the requirements for the primary teaching focus area and for the secondary teaching focus area. For the *primary teaching focus area*, the following 32 technical hours are required: ACCT 2000 or ACCT 2001; BLAW 3201; MC 2525 or MC 4050; MGT 3200; HRE 4705; MGT 4113; MKT 3401; MKT 3411; MKT 3421; 3 hours from MKT 3410, MKT 3431, MKT 4440, MKT 4443, or MKT 4490; and an approved elective (2 hrs.). For the remaining technical hours, students will select an area for the *secondary teaching focus*.

The secondary teaching focus areas include biology, English, math, social studies, and other areas as approved by Louisiana teacher certification. Courses from the general education requirements may be used to fulfill a portion of the secondary teaching focus course work. Students will develop a plan of study in consultation with a faculty advisor.

TOTAL SEM. HRS. • 132

FRESHMAN YEAR	SEM. HRS.
English 1001	3
General education analytical reasoning:	
Mathematics 1021, Mathematics 1100 or 1431	6
General education natural sciences sequence:	
Biological Sciences 1001 or 1201 and Biological Sciences 1002 or 1202	6
General education natural sciences course:	
Chemistry 1001 or 1201	3
General education arts course	3
Human Resource Education 2001	3
Technical core courses	9
	—
	33
SOPHOMORE YEAR	SEM. HRS.
English 2000	3
General education humanities course:	
History 2055 or 2057	3
General education social science course:	
Curriculum & Instruction 2001	3
Experimental Statistics 2000 or Computer Science 1100 or Human Resource Education 4252	3
Psychology 2060 and 2078	6
Human Resource Education 3101	3
Kinesiology 2601	1
Technical core courses	12
	—
	34

JUNIOR YEAR	SEM. HRS.
General education social science course:	
Economics 2030	3
General education humanities course:	
English 2673	3
General education humanities course:	
Communication Studies 2010 or 2060	3
Human Resource Education 3201	3
Human Resource Education 3603	1
Human Resource Education 3604	1
Human Resource Education 3605	1
Human Resource Education 4201	3
Curriculum & Instruction 3136 and 4800	6
Technical core courses	11
	—
	35

SENIOR YEAR	SEM. HRS.
Human Resource Education 4200	3
Human Resource Education 4301	3
Human Resource Education 4601	3
Technical core courses	12
Human Resource Education 4806	9
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	30

SCHOOL OF PLANT, ENVIRONMENTAL & SOIL SCIENCES

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CURRICULA:

- Environmental Management Systems (Environmental Analysis and Risk Management; Policy Analysis; Resource Conservation)
- Plant and Soil Systems (Agricultural Pest Management; Crop Management; Soil Science; Environmental Horticulture; Horticultural Science; Landscape Management; Turfgrass Management)

The School of Plant, Environmental, & Soil Sciences offers degree programs in environmental management systems and plant and soil systems curricula. These curricula provide students with excellent preparation for careers in management, consulting, regulatory and public relations, or sales and services in agricultural, natural resources, or environmental industries. Some students use these science-based curricula as foundations to pursue graduate studies in agronomic, horticultural or environmental sciences or professional degrees in medicine or law.

Students are given opportunities to gain valuable experience through internships in the agronomic, horticultural or environmental business communities, special research projects with faculty members, and/or part-time student employee positions.

ENVIRONMENTAL MANAGEMENT SYSTEMS

Louisiana is blessed with abundant natural resources. To protect public and ecological health, and restore air, soil, and water quality, Louisiana has developed one of the strongest professional environmental communities in the world. The environmental management systems curriculum provides students with the knowledge and skills to work as part of this environmental community in a variety of areas of specialization, including air permitting, environmental enforcement, soil conservation, water quality, wetland delineation, environmental compliance, coastal restoration, and risk assessment and management. Environmental management systems graduates are well-qualified for a variety of careers because of their solid training in sciences, problem-solving, and written and oral communication, all of which will be critical for the fast paced, ever-changing future job market that will favor workers who are well-trained and demonstrate flexibility and adaptability.

The environmental management systems curriculum is partitioned into three areas of concentration: (1) environmental analysis and risk management, (2) policy analysis, and (3) resource conservation. Each concentration includes a variety of elective courses that allow students to gain expertise in specific areas that interest them. Particularly in their junior and senior year, students interact with a wide range of accomplished environmental professionals to refine their program of study

and career goal, and focus on specific career paths within the broad environmental management field. However, the environmental management systems curriculum is designed to be sufficiently flexible to allow students to prepare for positions in the public or private sectors working in the office, laboratory, or field.

Graduates with a concentration in *environmental analysis and risk management* will have a knowledge and practical understanding of: chemistry (analytical, organic, and quantitative analysis, instrumentation, soil and water chemistry); environmental microbiology; environmental fate and transport geology (hydrology); land use planning (including GIS/GPS); site investigation principles and collection methods; human and ecological risk assessment; and federal and local regulations governing site assessment, site evaluation, and site remediation.

Graduates with a concentration in *policy analysis* will have a knowledge and practical understanding of: role and scope of state and federal regulatory agencies; environmental laws and regulations; mechanisms for implementation of regulations, compliance with regulations, permits, audits, etc.; environmental auditing systems; environmental permitting; the role of risk assessment in decision making; and land use planning.

Graduates with a concentration in *resource conservation* will have a knowledge and practical understanding of: chemical, physical, and biological properties of soil; soil and water conservation and associated federal programs; coastal restoration; soil-plant relationships; fundamentals of forestry, wildlife, and agricultural management; land use planning (including GIS/GPS); soil and water assessment and remediation principles; and ecological risk assessment.

Environmental management systems students vary widely in their interests and career goals, but they all share a commitment to a professional career and a passion to preserve our natural resources and protect environmental quality.

CURRICULUM IN ENVIRONMENTAL MANAGEMENT SYSTEMS

TOTAL SEM. HRS. • 124

¹Recommended for students interested in toxicology or medicine. CHEM 2262 as an approved elective is also recommended.

FRESHMAN YEAR	SEM. HRS.
Biological Sciences 1201, 1208	4
Chemistry 1201, 1202, 1212	8
English 1001	3
Environmental Management Systems 1011 ..	3
Mathematics 1021, 1022	6
General education humanities course.....	3
	27
SOPHOMORE YEAR	SEM. HRS.
Agronomy 2051	4
Agricultural Economics 2003 or Economics 2030	3
Biological sciences 1202, 1209	4
Chemistry 2060 or 2261 ¹	3
English 2000	3

Mathematics 1431	3
Political Science 2051 or Sociology 2001	3
Communication Studies 2060	3
Environmental Management Systems 2011 ...	3
General electives	3
	32

JUNIOR YEAR	SEM. HRS.
Experimental Statistics 2201	4
Environmental Management Systems 3050...	3
Management 3200	3
General education humanities course	3
Physics 2001	3
General education arts class.....	3
Area of concentration courses.....	12
	—
	31

SENIOR YEAR	SEM. HRS.
Environmental Management Systems 3040, 4020.....	7
Area of concentration courses.....	18
Electives or ROTC	9
	—
	34

Areas of Concentration

◆ Environmental Analysis and Risk Management

Required Courses (30 hrs.)—AGRO 4055; BIOL 2051; CHEM 2001; AGRO 4056 or OCS 4090; and 16-17 hours of approved electives from a list available from the School of Plant, Environmental & Soil Sciences. Students may select no more than six hours of approved electives below the 3000 level.

◆ Policy Analysis

Required Courses (30 hrs.)—AGEC 3803; AGRO 4078; ENVS 4101; ENVS 4261, 4262 or 4264 or 4266; select one: AGEC 3503 or ECON 4320; OCS 4465; and 12 hours of approved electives from a list available from the School of Plant, Environmental & Soil Sciences. Students may select no more than 6 hours of approved electives below the 3000 level.

◆ Resource Conservation

Required Courses (30 hrs.)—AGEC 3503; AGRO 3040, 4052, 4055, and 4078; select one: AGRO 3000 or 4070 or HORT 2050 or 2061 or OCS 4308; GEOG 4047; and select one: OCS 4166 or 4465 or 4560; and four to five hours of approved electives from a list available from the School of Plant, Environmental, & Soil Sciences

PLANT AND SOIL SYSTEMS

Consolidation of curricula in Agronomy, Entomology, Horticulture, and Plant Pathology and Crop Physiology resulted in the curriculum in Plant and Soil Systems. All students in this curriculum take core courses that provide a basic knowledge required for specialization in one of eight areas: environmental horticulture; landscape management; turfgrass management; horticultural science; soil science; agricultural pest management; urban entomology and crop management. Each area is further individualized by the addition of approved

and free electives.

Students interested in pursuing a minor in agronomy, agricultural pest management, or horticulture may take suggested courses for the minor as part of the approved and free electives. (See the section on College of Agriculture minors for details.)

Students pursuing agronomic interests can concentrate their studies in the areas of crop management, soil science, or agricultural pest management. In addition to the basic curriculum outlined for plant and soil systems majors, students selecting the crop management area of concentration take courses in agronomy, biological sciences, economics, entomology, experimental statistics, genetics, and plant health, as well as several hours in approved electives.

The agricultural pest management area of concentration is an interdisciplinary program of study in weed science, plant pathology, and physical sciences, and practical training through an internship work experience. A range of restricted and non-restricted electives allow students to personalize their degree program based on employment goals.

Four areas of horticultural concentration (environmental horticulture; landscape management; turfgrass management; and horticultural science) are designed to prepare students for various career opportunities using a cross-disciplinary studies approach. Prior to entering the program, students are encouraged to consult the curriculum coordinator for guidance in selecting courses.

Students selecting the environmental horticulture area of concentration will be prepared for careers in ornamental crop production, landscape horticulture, or the production and processing of fruits, nuts, and vegetables. Students will become familiar with essential aspects of landscape and interiorscape installation and maintenance. Careers include interior and exterior landscape managers, horticulture educators, wholesale production of horticulture plants, retail managers and owners, arboreta, botanical gardens, and tissue culture propagation. Career opportunities in vegetable and fruit science include jobs as field representatives and farm consultants, food processors, agricultural chemical suppliers, and produce brokers.

Students selecting the landscape management area of concentration are prepared to construct landscape sites, as well as plant and maintain woody and herbaceous plants, turfgrass ornamental bulbs, and related crops. Coursework in this area is more closely allied to landscape management and less so to production practices. Careers are centered on owning and operating landscape management companies.

Students selecting the turfgrass management area of concentration pursue careers as sports field managers; golf course superintendents; or professionals employed by the urban agricultural products industry. In addition to the basic core courses in the curriculum, students study turf and ornamental management, pest identification and control, pesticide application techniques, landscape design and small engine maintenance. Twelve hours of business electives provide additional experience in financial and personal management.

Students selecting the horticultural science area of concentration are prepared to pursue graduate studies in horticulture and related sciences. Horticultural scientists conduct research in areas such as crop culture and management; molecular biology; plant breeding and genetics; plant growth and development; plant metabolism and nutrition; propagation; post harvest and stress physiology; and tissue culture.

CURRICULUM IN PLANT AND SOIL SYSTEMS

TOTAL SEM. HRS. • 127-129

¹ For crop management and soil science areas of concentration

² For horticultural science; environmental horticulture, turfgrass management; and landscape management areas of concentration

³ For agricultural pest management area of concentration

⁴ For urban entomology area of concentration

⁵ For landscape management area of concentration

⁶ For horticultural science area of concentration

FRESHMAN YEAR	SEM. HRS.
Biological Sciences 1201, 1202, 1208, 1209 or 1001, 1002, 1005 ⁵	8
Chemistry 1201, 1202, 1212	8
English 1001	3
Mathematics 1021	3
Mathematics 1022 ² or Experimental Statistics 2201 ^{1,3,4}	3-4
General education arts course	3
General education social sciences course	3
General education humanities course	3
	—
	34-35

SOPHOMORE YEAR	SEM. HRS.
Agronomy 2051	4
Chemistry 2060 or 2261	3
English 2000	3
Agricultural Economics 2003 or Economics 2030	3
Communication Studies 2060	3
General education humanities course	3
Area of concentration courses	12-13
Approved electives	3-2
	—
	34

JUNIOR YEAR	SEM. HRS.
Biological Sciences/Plant Health 3060 ⁶ or Horticulture 2860	3-4
Agronomy 3010 or 3090 ¹ or Horticulture 3000 or 3010 ² or Plant Health/Entomology 3000 ^{3,4}	3
Plant Health 4000	3
Area of concentration courses	9-12
Approved electives	9-5
Electives or ROTC	3
	—
	30

SENIOR YEAR	SEM. HRS.
Agronomy 4052 ^{1,2,3} or Entomology 4001 ⁴	4-3
Area of concentration courses	10-9
Approved electives	12-15
Electives or ROTC	3
	—
	29-30

Areas of Concentration

A list of approved electives is available in the *School of Plant, Environmental & Soil Sciences*.

◆ Crop Management (29-30 hrs.)

Agronomy 1001; Agronomy 3000; Agronomy 3011, 3012, 3013 (select two); Agronomy 3040, 4070, 4080; Biological Sciences 1011 or 2051 or 2083 or 4087; 2153; Entomology 4006; Plant Health 4001

◆ Environmental Horticulture (32 hrs.)

Entomology 2001; Horticulture 2122, 2124, 2125, 2050, 2061, 2086, 3015, 4020, 4071; Agronomy 4070

◆ Horticultural Science (33 hrs.)

Dairy Science 2072; Biological Sciences 2083; Entomology 2001; Experimental Statistics 2201; Horticulture 2050, 2061, 4012, 4020, 4096

◆ Landscape Management (35 hrs.)

Entomology 2001; Horticulture 2020, 2022, 2025, 2050, 2061, 2086, 2122, 2124, 2125, 2130, 3015, 3040; Agronomy 4070

Students who complete the Associates of Science in General Science with a concentration in Landscape Management at Baton Rouge Community College and who meet the LSU admission requirements, can enter the LSU Landscape Management program at junior-level standing.

◆ Soil Science (30-31 hrs.)

Agronomy 4055, 4056, 4058; Biological Sciences 1011 or 2051; Chemistry 2001, 2002; Geology 1001, 1601; Mathematics 1022; Physics 2001, 2108

◆ Turfgrass Management (32 hrs.)

Entomology 2001, 4012; Horticulture 2050, 2061, 2086, 2124, 2125, 2130, 3015, 4090; Agronomy 4070

SCHOOL OF RENEWABLE NATURAL RESOURCES

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CURRICULA:

- Forestry (Forest Management)
- Natural Resource Ecology and Management

The School of Renewable Natural Resources offers undergraduate and graduate education to students who wish to discover the natural world and ways to improve the management of renewable resources, protect biodiversity, and promote conservation of diverse ecosystems. Two undergraduate curricula are available that provide students with professional education in forestry or in natural resource ecology and management.

The curriculum in forestry and the curriculum in natural resource ecology and management consist of a set of core courses taken by all students in the School of Renewable Natural Resources to assure the broad understanding of natural resource ecology, sustainability, policy, and management. The forestry curriculum and the natural resource ecology and management curriculum have a set of required courses specific to each degree program. There is considerable flexibility within each degree program because there are areas of concentration that target specialties, yet allow individual flexibility in course selection. Problem-based learning and multidisciplinary team activities are used to put students in "real-world" situations with present-day problems that will better prepare students for successful careers. Critical thinking skills are stressed in a broad-based curriculum. To assure the quality of graduates, all students in undergraduate programs in forestry or natural resource ecology and management must earn a grade of "C" or better in all required RNR courses or in courses used to substitute for required RNR courses.

Bachelor of Science in Forestry

The bachelor of science in forestry (BSF) is aimed at providing a broad education in renewable natural resources specifically related to forest ecosystems. The BSF is accredited by the Society of American Foresters (SAF). SAF is the accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation as the accrediting agency for forestry in the U.S.

The BSF degree program is flexible and allows students, in consultation with faculty, to select an area of concentration closely associated with their career goals in renewable natural resources. The two areas of concentration include forest resource management, and ecological restoration.

The forest resource management area of concentration is intended for students primarily interested in managing forests as a sustainable natural resource. The area of concentration is designed to provide students with an appreciation of numerous aspects of forest resource management including timber and non-timber resources and prepare them for employment with public and private entities in forest resource management.

The ecological restoration area of concentration provides the foundation for students planning a career in environmental and ecological consulting, ecological restoration, or remediation work. Development mitigation is on the rise, as is the desire to restore systems disturbed and disrupted by anthropogenic and natural causes. Knowledge of plant and animal taxonomy, geographic information systems, and wetlands delineation are currently in demand by environmental consulting/engineering firms.

Bachelor of Science in Natural Resource Ecology and Management

This degree program strives to teach students about the ecology and natural history of plant and animal populations and communities to enable enhanced management

and conservation of biotic resources. Students get broad-based training in identification, natural history, population ecology, conservation biology, and policy issues that will affect living natural resources. The curriculum is designed to prepare students for careers as professionals in a broad range of natural resource management positions. Students in natural resource ecology and management tailor their course work to their career goals by choosing one of seven areas of concentration: conservation biology, fisheries and aquaculture, natural resource conservation, wetland science, wildlife ecology, wildlife law enforcement, and preveterinary-wildlife.

Job opportunities for graduates of the natural resource ecology and management curriculum are available in state and federal agencies, non-governmental conservation organizations, private consulting firms, and with industry. Students pursuing the Bachelor of Science degree in natural resource ecology and management typically complete the educational requirements for graduates to be certified by The Wildlife Society or the American Fisheries Society.

The conservation biology area of concentration is designed to educate students concerning ways to protect biodiversity. This includes a broad base of training in ecology, taxonomy, the genetics of small populations, human dimension of resource management, and the principles of population biology.

The fisheries and aquaculture area of concentration is designed for students interested in the ecology and management of aquatic resources in freshwater and marine ecosystems, as well as the cultivation of economically important species under controlled conditions. Students in this area take courses in fish taxonomy, biology, and management, and can tailor their program of study to suit their interests with additional courses in breeding and genetic improvement, nutrition, aquacultural engineering, aquatic animal diseases, microbiology, water quality, biology, oceanography and coastal studies, and management of freshwater and marine habitats. With numerous opportunities to gain research experience, students in this concentration are well prepared for pursuing graduate studies, as well as numerous careers in aquatic resource management in private industry, state and federal agencies, consulting firms, and aquatic resource advocacy groups.

The area of concentration in natural resource conservation is designed for students wishing to pursue a broader curriculum in renewable resource ecology and management, including courses from both aquatic and terrestrial systems. Many state and federal resource agencies are seeking people with a diverse educational background who are able to understand and work on complex environmental issues in multi-disciplinary teams that focus on land use, pollution, habitat loss, and biodiversity problems, all of which will continue to grow as human population numbers and urbanization increase.

The area of concentration in wetland science is designed for students who wish to specialize in wetlands, which are valued as wildlife and fish habitats, for maintaining water quality, and for other economic benefits. Students who concentrate in wetland science can anticipate working for private or

governmental agencies that manage land, for governmental agencies that restore and/or regulate wetlands, or for businesses that delineate wetlands, plan and manage mitigation banks, or plan and construct restoration projects.

The wildlife ecology area of concentration is tailored to students interested in traditional management that focuses on wildlife populations, especially game animals and charismatic species of concern to the public. Students are exposed to the principles of population growth, theory and practice concerning population exploitation, habitat requirements and methods of management, and the influence of public policy on wildlife resources. Students from this area of concentration typically accept jobs with state and federal resource agencies, but often pursue advanced degrees prior to employment.

The wildlife law enforcement area of concentration was recently created to meet the needs of students who want to enter into natural resources law enforcement with state or federal agencies. Students get a background in wildlife ecology and management, natural resources policy, as well as course work in political and social sciences. Students must still go through state or federal law enforcement training before they can work in wildlife law enforcement.

The preveterinary-wildlife area of concentration is for students interested in applying to the LSU School of Veterinary Medicine, and who are interested in careers that focus on exotic animals and wildlife rather than the more traditional small and large animal practices. Health issues such as whirling disease in trout and chronic wasting disease in elk continue to be problems for state and federal resource agencies, and zoos and wild animal parks constantly deal with veterinary issues; all of these problems require people with both veterinary skills and a familiarity with a diversity of wildlife and the habitats that support them.

Transportation for field trips is provided by the University but is financed by students. Field fees vary in amount, based on the cost of transportation, and are paid at the time of other University fees through the advanced billing system.

CURRICULUM IN FORESTRY (FOREST MANAGEMENT)

TOTAL SEM. HRS. • 128

All students in the undergraduate curriculum in Forestry must earn a grade of "C" or better in all required RNR courses.

FRESHMAN YEAR	SEM. HRS.
Agriculture 1001*	1
Biological Sciences 1201, 1208 and 1202, 1209	8
Chemistry 1201, 1202, 1212	8
English 1001	3
Mathematics 1021	3
Renewable Natural Resources 1001 and 1002	4
General education arts course	3
Electives	2
	—
	32

SOPHOMORE YEAR	SEM. HRS.
Economics 2030 or Agricultural Economics 2003	3
Communication Studies 2060	3
English 2000	3
Experimental Statistics 2201	4
Mathematics 1431	3
Philosophy 2020	3
Renewable Natural Resources 2001 and 2101	5
Renewable Natural Resources 2039	3
General education social sciences	3
Renewable Natural Resources 2003	1
	—
	31

JUNIOR YEAR	SEM. HRS.
Renewable Natural Resources 2102, 3002, 4900, and 3103	11
Area of concentration courses	5-10
Approved electives	11-5
General education humanities course	3
Electives	3-4
	—
	33

SENIOR YEAR	SEM. HRS.
Renewable Natural Resources 4101	4
Area of concentration courses	11-18
Approved electives	12-6
Electives	5-4
	—
	32

**Students entering the program with 30 or more semester hours will take one additional hour of approved electives in place of AGRI 1001.*

Areas of Concentration

A list of approved electives is available from the school.

◆ Ecological Restoration

Required Courses (18 hrs.)—AGRO 2051; RNR 3034, 3036, 3037, 3040, 3041, 3105, 3108, 4032

◆ Forest Resources Management

Required Courses (28 hrs.)—AGRO 2051; ENTM 4018; RNR 2043, 3034, 3036, 3037, 3040, 3041, 3105, 4036, 4038

CURRICULUM IN NATURAL RESOURCE ECOLOGY AND MANAGEMENT

TOTAL SEM. HRS. • 128

All students in the undergraduate curriculum in Natural Resource Ecology and Management must earn a grade of "C" or better in all required RNR courses.

FRESHMAN YEAR	SEM. HRS.
Agriculture 1001 ¹	1
Biological Sciences 1201 and 1202	6
Biological Sciences 1208 and 1209 or Chemistry 1212 ²	2
Chemistry 1201 and 1202	6
English 1001	3
Mathematics 1021	3
Renewable Natural Resources 1001 and 1002	4

General education arts course.....	3	◆ Fisheries and Aquaculture	
Free electives	4		
	—		<i>Required Courses</i> (24 hrs.)—BIOL 2051; RNR 2002, 4022, 4037, 4061, 4106, and 4145; select one from RNR 4023 or 4040
	32		
SOPHOMORE YEAR	SEM. HRS.	◆ Natural Resource Conservation	
Communication Studies 2060	3		<i>Required Courses</i> (20-23 hrs.)— <i>Select one course</i> (3-4 hrs.) <i>from the following:</i> RNR 2002, 2031, or EMS 3040; <i>Select two courses</i> (6-8 hrs.) <i>from the following:</i> RNR 4011, 4022, 4023, 4033, 4036, 4038, 4040, or AGRO 4078; <i>Select two courses</i> (8 hrs.) <i>from the following:</i> RNR 3018, 4145, BIOL 4041, 4052, 4141, 4142, 4146, or ENTM 4005; <i>Select one course</i> (3 hrs.) <i>from the following:</i> AGEC 3503, 3803, 4603, EMS 3050, ECON 4070, 4320, POLI 4011 or 4015.
Chemistry 2060 ³ or 2261 ³ or Physics 2001	3		
Economics 2030 or AGECE 2003	3		
English 2000	3		
Experimental Statistics 2201	4		
Mathematics 1022 ⁴ or 1431 or 1441	3		
Renewable Natural Resources 2039	3		
Renewable Natural Resources 2101	3		
Philosophy 2020.....	3		
Sociology 2001 or Political Science 2051.....	3		
Area of concentration courses	1		
	—		
	32		
JUNIOR YEAR	SEM. HRS.	◆ Wetland Science	
Renewable Natural Resources 4103	3		<i>Required Courses</i> (21-22 hrs.)—OCS 4165, RNR 3108, 4020, 4033
Renewable Natural Resources 3002	3		<i>Select 1 course</i> (3 hrs.)—OCS 4164, 4308, 4465, or 4560
Renewable Natural Resources 2001 or 4020 or Biological Sciences 4041 ⁵	2-4		<i>Select 1 pair of courses</i> (6-7 hrs.)— <i>either</i> RNR 2031 and 4011; <i>or</i> RNR 2002 and 4023; <i>or</i> RNR 2002 and RNR 4040
General education humanities course	3		
Agronomy 2051 ⁶ or Renewable Natural Resources 4025 or 4151	3-4		
Renewable Natural Resources 2102	3		
Area of concentration courses	8-6		
Free electives	7	◆ Wildlife Ecology	
	—		<i>Required Courses</i> (24 hrs.)—RNR 2031, 3005, 4011; ENGL 3002; ENTM 4015; select two courses (8 hrs.)—BIOL 4141, 4142, 4146, RNR 3018, 4145
	32		
SENIOR YEAR	SEM. HRS.	◆ Wildlife Law Enforcement	
Renewable Natural Resources 4101, 4900 and 4023 or 4040	10		<i>Required courses</i> (23 hrs.)—RNR 2031, 3018, 4011; POLI 2051; select two courses (6 hrs.) <i>from the following</i> —SOCL 3371, 3501, 4461, or 4471; select one course (3 hrs.) <i>from the following</i> —POLI 4015, 4020, 4021, 4022, or 4023
Area of concentration courses	15-20		
Approved electives.....	5-0		
Free electives	2		
	—		
	32		

¹ Students entering the program with 30 or more semester hours will take one additional hour of approved electives in place of Agriculture 1001.

² Students in conservation biology, fisheries and aquaculture, and wildlife ecology areas of concentration must take BIOL 1208 and 1209.

³ Students in the fisheries and aquaculture or wetland science areas of concentration must take CHEM 2060 or 2261.

⁴ Calculus is required by many graduate schools.

⁵ Students in conservation biology, wetland sciences, and wildlife ecology areas of concentration must take RNR 2001.

⁶ Students in natural resource conservation and wetland science areas of concentration must take Agronomy 2051; students in fisheries and aquaculture area of concentration must take RNR 4025.

Areas of Concentration

◆ Conservation Biology

Required Courses (24-26 hrs.)—ENTM 4015; RNR 2031, 3018, and 4011; select two courses from the following—BIOL 4141, 4142, 4146, RNR 4037, 4145; select one course from RNR 4020 or BIOL 4041

◆ Pre-veterinary Medicine

Required Courses—BIOL 2051, 2083, or CHEM 2262, 2364; RNR 2001; PHYS 2001, 2002; and RNR 2031, 4051. The required first-year veterinary medicine courses (39 hrs. used as approved electives) will fulfill the BS degree requirement.

Students preparing to enter the School of Veterinary Medicine are invited to enroll in the "three-plus-one" program managed jointly by the School of Renewable Resources and the School of Veterinary Medicine. In this program, students spend three years in the wildlife-veterinary medicine area of concentrated study, after which they are eligible to apply for admission to the School of Veterinary Medicine.

Students entering the LSU School of Veterinary Medicine after completion of the first three years of natural resource ecology and management curriculum (96 hours) may receive the BS degree following successful completion of the first year of the professional curriculum in veterinary medicine. (See the School of Veterinary Medicine Bulletin for details of the first year of the professional curriculum).

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COLLEGE OF Art & Design

DAVID CRONRATH
Dean

THOMAS SOFRANKO
*Associate Dean of Undergraduate Programs,
Instructional, and Student Services*

THERESA MOONEY
Counselor

ERIN GRAVES
Counselor

102 Design Building
225-578-5400
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The College of Art and Design is a community of engaged students and faculty committed to speculative endeavors in all aspects of the visual arts and design disciplines.

The college community's core is fundamental practices while recognizing the challenge of creative activity are met by mining the core of traditional disciplines and exploring the interstices between disciplines.

The college recognizes that critical investigations in art and design occur in a context of regional, national, and global concerns. Theses contexts are meaningful only when referenced to a framework of one's immediate cultural and physical context. The college faculty constructs these frames of reference through general education, discipline specific education, interdisciplinary investigations, creative activities, colloquia, and community outreach.

The college's student and faculty collaborators value inquiry-based learning, encourage a spirit of risk taking, excite an appetite for thinking and making, nurture a capacity to create, and passionately pursue the means to capitalize on the opportunities thereby presented.

As a key component of the arts and cultural community, the college advances the role of the artist/designer in the broader community through distinctive public education and exhibition programs that serve the citizens of Louisiana with an enriched appreciation of culture.

ACCREDITATION

The college has nationally accredited degree programs in architecture, art, interior design, and landscape architecture. The School of Architecture offers both a bachelor of architecture and a master of architecture accredited by the National Architectural Accrediting Board (NAAB). The School of Art's seven areas of concentration are accredited by the National Association of Schools of Art and Design (NASAD). The School of Art offers a Bachelor of Fine Art, a Master of Fine Art, and a Master of Art in Art History. The Department of Interior Design offers a Bachelor of Interior Design degree that is accredited by the Foundation of Interior Design Education Research (FIDER). The Robert Reich School of Landscape Architecture offers both a Bachelor of Landscape Architecture and a Master of Landscape Architecture accredited by the Landscape Architecture Accreditation Board (LAAB).

ADMISSION REQUIREMENTS

Students may enter the college from University College, by transfer from another division of LSU, or by transfer from another approved college or university. The College of Art & Design has selective admission and retention policies that apply to degree programs in architecture, interior design, landscape architecture, and studio art. Students planning to apply to one of these programs should carefully review this catalog for special require-

ments and application deadlines. General requirements for entering the college are as follows:

From University College or by transfer from another college or institution • Students must have earned a minimum of 24 semester hours, with a 2.00 cumulative gpa, and they must be admitted to a degree program. Applicants will be required to submit a portfolio for admission to some degree programs. The extent to which transfer credits acceptable for admission to the University fulfill degree requirements will be determined by the college.

Readmission

Students who were not registered at LSU for the preceding regular semester must file a formal application for readmission.

College Probation

In addition to University requirements, the College of Art & Design has these additional academic requirements:

- Students who fail to earn a minimum 2.00 grade point average for any semester will be placed on college academic probation.
- Students on academic probation for two consecutive semesters will not be permitted to continue their academic program and will be administratively dropped from the College of Art & Design. Students who have been dropped from the college may apply for readmission to the college and their academic program on a probationary basis once a 2.00 semester gpa and a cumulative 2.00 gpa is achieved. (Students should check individual programs for probation, separation, and readmission criteria.)

STUDENT RESPONSIBILITY

Students in this college bear final responsibility for selecting an academic program and adhering to all published regulations and requirements of the college and the University. Each student must see the academic counselor to review a final degree audit during the semester *prior to* the semester in which the degree is to be awarded.

DEGREE REQUIREMENTS OF THE COLLEGE

It is the student's responsibility to qualify for a bachelor's degree by meeting these requirements:

- Complete 39 hours of general education courses as specified in a separate section of this catalog.
- Complete one of the established curricula offered by this college. Any substitutions submitted for the curricula as published must have written approval of the department chair or school director and the dean's office.

COLLEGE OF ART AND DESIGN • UNDERGRADUATE DEGREES

Schools/Department	Curricula	Degrees
School of Architecture	Architecture	Bachelor of Architecture
School of Art	Studio Art	Bachelor of Fine Arts
Interior Design	Interior Design	Bachelor of Interior Design
Robert Reich School of Landscape Architecture	Landscape Architecture	Bachelor of Landscape Architecture

- Achieve a minimum gpa of 2.00 on all work taken in the LSU System and on all work taken at other institutions.
- Complete a minimum of 30 semester hours in residence in the college. Courses taken through correspondence study in the last 30 hours will not be considered for residence credit.
- Complete the last 30 semester hours while in residence in this college on the LSU campus. Courses taken through correspondence study in the last 30 hours will not be considered residence credit without prior approval of the department head and the dean of the college.
- Initiate the graduation check-out procedure with the dean's office during the semester *prior* to the semester in which the degree is to be awarded.

MINOR FIELD REQUIREMENTS (OPTIONAL)

Students in the College of Art & Design may pursue a minor field under the following guidelines:

- Earn a minimum of 15-18 semester hours in the minor field, of which at least six semester hours must be in courses taken on this campus at the 3000 and/or 4000 level. See the individual curricula for specific courses.
- Earn a minimum gpa of 2.00 in the minor field.
- Courses used to satisfy minor requirements may not be taken on a pass-fail basis.

A minor field may be selected from any major field currently offered by the college in which appropriate requirements for a minor have been established.

Minors outside the college can be established, provided that the minor conforms to the guidelines noted above for minors in the college and the minor meets the guidelines established by the department, school, or college concerned.

► Architectural History

To graduate with a *minor in architectural history*, students must complete at least 18 hours of designated courses. To complete the

minor, students are required to take ARCH 3005 and 3006. In addition, students must take at least two architecture courses from the following list: ARCH 2401, 4051, 4052, 4062, 4090, 4145. Finally, to complete the required number of credits, students may select additional courses from the following list: ANTH 4440; ARTH 4404, 4405, 4406, 4412, 4422; ID 3741, 3742; LA 2141, 2142, 2143, 2145.

► Art History

To graduate with a *minor in art history*, students must complete ARTH 1440, 1441, and 12 hours of credit at the 4000 level or above. This minor is offered through the College of Arts and Sciences.

► Business Administration

To graduate with a *minor in business administration*, students must complete ACCT 2000; ECON 2030; FIN 3715; ISDS 1100; MGT 3200; MKT 3401.

► Community Design

To graduate with a *minor in Community Design*, students must complete 18 hours of designated courses. Students are required to take ARCH 4062, 4072, 4700, 5008, and one elective selected from ARCH 4041, 4052, 2145, 4353, or 4440.

► Fine Art

To graduate with a *minor in fine art*, students must complete ART 1001, 1008¹, 1009², 1010³; ARTH 1440 or 1441; and two of the following courses: ART 1361, 1371, 1551, 1661, 1762, 1848, 1849, 2050, 2655, and 2995.

¹ ART 1008 is a prerequisite for ART 1361, 1371, 1551, 2050, and 2995.

² ART 1009 is a prerequisite for ART 1661, 1762, and 2655.

³ ART 1010 is a prerequisite for ART 1361, 1371, 1848, and 1849.

Note: additional prerequisites may be required for the above courses. Please refer to the list of course descriptions in the *LSU General Catalog* to determine the proper sequence in which these courses must be completed.

► Heritage Conservation

To graduate with a *minor in heritage conservation*, students must complete 18 hours of credit chosen from the following courses: ARCH 2401, 3000, 3005, 3006, 4090, 4145, 4155, 4165, and 4440. Of these, nine hours of credit must be chosen from the following courses: ARCH 4090, 4145, 4155, and 4165.

SPECIAL PROVISIONS OF THE COLLEGE

The pass-fail grading option is limited to courses that are electives in the degree programs.

CORRESPONDENCE CREDIT

Special restrictions apply to correspondence credit used toward degree credit. Students must have the dean's permission prior to scheduling correspondence course work. Students registered in the college may enroll in a maximum of 19 semester hours of combined resident and correspondence course work during a regular semester. They may enroll in a maximum of 12 semester hours of combined resident and correspondence course work during the summer term.

No more than 15 semester hours of correspondence credit may be applied toward the degree requirements of the college. No more than six semester hours of correspondence credit may be applied to a student's general education requirement.

Students may not be enrolled in correspondence courses during the semester they plan to graduate.

REQUIREMENTS FOR A SECOND BACHELOR'S DEGREE

Second degrees may be awarded at the bachelor's level in architecture, art, interior design, and landscape architecture. The program of study for the second degree must include a minimum of 30 semester hours of work beyond requirements for the first degree, including any degree requirements not previously met.

ENROLLMENT IN TWO DEGREE PROGRAMS

With the dean's approval, a student may be enrolled in two degree programs concurrently. A student can enroll as a dual registrant using one of the following procedures.

- *Dual Enrollment Within the College of Art & Design*—By completing residence and academic requirements, and earning 30 hours more than the degree requiring the fewer number of hours, a student will earn two separate bachelor's degrees.
- *Dual Enrollment in the College of Art & Design and in a Second Academic College*—By completing residence and academic requirements for two degree programs and earning 30 hours over the degree requiring the fewer number of hours, a student can earn two bachelor's degrees.

The student must be accepted for admission to both colleges and must adhere to the regulations of both colleges. In addition, the student must declare a home college where registration will be initiated and permanent files will be maintained. It is the student's responsibility, however, to maintain contact with the second college to ensure that satisfactory progress is being made toward that degree.

PHI KAPPA PHI

Founded in 1897 at the University of Maine, Phi Kappa Phi is the nation's oldest, largest, and most selective honor society for all academic disciplines. Its chapters are on nearly 300 campuses in the United States, Puerto Rico, and the Philippines. Each year, approximately 30,000 members are initiated. Some of the organization's more notable members include former President Jimmy Carter, writer John Grisham, NASA astronaut Wendy Lawrence, and Netscape founder James Barksdale. The LSU chapter was founded in 1930 as the 43rd chapter in the nation.

The mission of Phi Kappa Phi is to recognize and promote academic excellence in all fields of higher education and to engage the community of scholars in service to others. Phi Kappa Phi is unique because it recognizes superior scholarship in *all academic fields*, rather than restricting membership to a limited field. Juniors in the top 7.5 percent and senior and graduate students in the top 10 percent of their classes may be invited to become members of Phi Kappa Phi. New LSU Phi Kappa Phi members are initiated and honored in the spring semester each year and wear identifying ribbons on their academic gowns at commencement exercises. Additional information about the Society may be found at www.phikappaphi.org.

TAU SIGMA DELTA

Tau Sigma Delta (ΤΣΔ) was founded in 1913 to recognize excellence in art and design education. It is a scholastic honor society open to students enrolled in accredited degree programs in architecture, landscape architecture, interior design, or art who have a minimum gpa of 3.00 and who rank in the upper 20 percent of the cohort in their

discipline. The Alpha Zeta chapter at LSU performs service for the University and for the community at large through the creative work of its members. New members are initiated and honored in the spring semester, and wear identifying ΤΣΔ stoles on their academic gowns at commencement exercises.

GRADUATE PROGRAMS

The Master of Science in Architecture, Master of Fine Arts, Master of Arts in Art History, and Master of Landscape Architecture are offered through the Graduate School. Consult the *Graduate Bulletin*.

SCHOOLS AND CURRICULA

SCHOOL OF ARCHITECTURE

OFFICE • 136 Atkinson Hall
TELEPHONE • 225-578-6885
FAX • 225-578-2168

The School of Architecture, a member of the Association of Collegiate Schools of Architecture, offers professional degree programs at both the undergraduate and the graduate levels. Preparation for the profession of architecture requires both formal education and practical experience followed by a professional examination and registration.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U. S. professional degree programs in architecture, recognizes two types of degrees: the Bachelor of Architecture and the Master of Architecture. A program may be granted a six-year, three-year, or two-year term of accreditation, depending on its degree of conformance with established educational standards.

Master's degree programs may consist of a preprofessional undergraduate degree and a professional graduate degree, which when earned sequentially, comprise an accredited professional education. However, the preprofessional degree is not, by itself, recognized as an accredited degree.

Undergraduate Admission Requirements

Admission to the beginning design course in the NAAB accredited Bachelor of Architecture program (ARCH 1001) is selective and is based on high school academic gpa and ACT or SAT scores. Individuals who believe there are additional factors that should be considered in evaluating their applications are encouraged to contact the School of Architecture in writing and/or schedule an on-campus interview. High school students are strongly encouraged to apply prior to February 15 for admission into the following fall semester.

The top 80 students will be admitted to the beginning design course in the fall semester of each academic year. Students who have been approved for admission will be notified in writing. Students not admitted to

the beginning design course will not be allowed to register for architecture courses other than those listed as general education courses.

Transfer students will be considered for admission to the architecture program and the beginning design course on a space-available basis. Admission is competitive. Transfer students are expected to have earned a minimum 2.75 gpa (on a 4-point scale, based on 30 hours or more). The review of transfer students will include a select number of students already enrolled at LSU who have applied to transfer into the architecture program. Transfer students are strongly encouraged to apply prior to February 15 for admission into the following fall semester.

Transfer credit for architecture courses as substitutions for required courses in the school's curriculum will be considered only if these courses have been taken as part of an architecture program accredited by the NAAB. Transfer students desiring credit for design studio courses will also be required to submit a portfolio for faculty evaluation.

Admission Requirements to the Third Year

There will be, prior to admission to the third year of study (upper division), a scholastic and portfolio review. No more than 36 students will be approved for advancement to the upper division each year. The School of Architecture reserves the right to deny admission to the third year of study based on this review.

Admission Requirements for the Fifth Year

Entrance to the fifth year will be granted only to those students who have successfully completed all required course work in years one through four. Admission to the fifth year will be in the fall semester only.

Graduate Program

Information on the Master of Architecture program, including admissions requirements, is available by contacting the school directly.

Personal Computer Requirement

Students are required to have their own personal computer upon entering the second year studio course. Contact the School of Architecture for information regarding type, specifications, and software.

CURRICULUM IN ARCHITECTURE

TOTAL SEM. HRS. • 162

In the architecture curriculum, normal course progress is imperative. A student failing to complete any required course more than one year later than the time designated in the curriculum is prohibited from advancement in the design studio sequence until the deficiency is corrected. All required courses listed through the senior year must be completed before a student is allowed to enroll in the designated fifth-year courses. Courses listed below are to be scheduled in the sequence in which they are listed. Thirty-nine hours of general education courses must be completed as required by the University.

FRESHMAN YEAR	SEM. HRS.
Architecture 1001, 1002.....	12
Mathematics 1022, 1441.....	6
English 1001.....	3
General education humanities course.....	3
General education social sciences courses.....	6
	<u>30</u>
SOPHOMORE YEAR	SEM. HRS.
Architecture 2001, 2002, 2003, 2006.....	18
English 2000.....	3
General education natural sciences courses.....	6
General education humanities courses.....	6
Physics 2001.....	3
	<u>36</u>
JUNIOR YEAR	SEM. HRS.
Architecture 3001, 3002, 3003, 3004, 3005, 3006, 3007, 3008.....	30
Professional elective**.....	3
General education arts courses.....	3
	<u>36</u>
SENIOR YEAR	SEM. HRS.
Architecture 4001, 4002, 4007, 4031, 4062, 5006.....	24
Professional electives**.....	6
	<u>30</u>
FIFTH YEAR	SEM. HRS.
Architecture 5001, 5002.....	12
Approved electives*.....	6
Architecture 5005.....	3
Professional electives**.....	9
	<u>30</u>

* Note • Approved electives must be selected in consultation with a faculty advisor.

** Note • Professional electives must be selected in consultation with a faculty advisor.

SCHOOL OF ART

OFFICE • 123 Art Building
TELEPHONE • 225-578-5411
FAX • 225-578-5424

CURRICULUM:

- Studio Art

LSU is an accredited institutional member of the National Association of Schools of Art & Design. Through the College of Art & Design, the School of Art offers the professional BFA degree in Studio Art with concentrations in ceramics, graphic design, - painting and drawing, photography, printmaking, and sculpture. In addition, students concentrating in these areas may minor in art history, ceramics, painting and drawing, photography, printmaking, sculpture, and visual communications. All studio art classes meet for two class hours per semester hour of credit. Outside of regular class time, students are expected to engage in a minimum of one additional hour of studio work per hour of credit.

Certain courses offered by the school require fees to defray the cost of consumable materials used by students. This information is included in the individual course syllabus.

Enrollment in certain required art courses may be restricted to "majors and minors only" early in the registration process.

Registration for all multiple credit courses taken for more than three credits in a given semester will require prior permission of the instructor.

Personal Computer Requirement

Students accepted into the Graphic Design curriculum are required to have their own wireless internet access laptop computer prior to entering the second year of study. Likewise, students admitted to the Visual Communications Minor are required to have their own laptop computer. Information regarding the type, specifications, and software may be obtained in room 123 Art Building or on the School of Art Web site.

Bachelor of Fine Arts Degree

The Bachelor of Fine Arts degree provides the liberal education and specialized instruction needed for a professional career in the visual arts.

Admission Requirements

Admission into the program for the Bachelor of Fine Arts in Studio Art is a selective two-part process. The first phase occurs when a student who is admitted by the Office of Undergraduate Admissions indicates a preference for studio art, where the primary tools for selecting candidates are high school academic gpa, and ACT or SAT scores. However, students who think they would be better represented with an existing portfolio should contact the School of Art office to schedule an on-campus interview.

Students who are approved for admission into the Foundations Program will be notified in writing. Students who are not approved may choose to pursue a Minor in Fine Art.

The second phase of the admission process takes place upon conclusion of the first year with the completion of: ART 1011, 1012, 1847 and a course from the student's intended concentration, listed below. Students will submit a portfolio of creative work specified by their prospective area of concentration, based on art work produced in the required first-year foundation courses. The remaining foundations courses must be completed in fourth semester. Students who pass the portfolio review may pursue their concentration and any studio art minor listed in the LSU General Catalog.

The Foundations Program

The Foundations Program is comprised of a total of eight courses (24 credits). Four of these courses are required for all students in the School of Art: ART 1011, 1012, 1360, and 1847. Another four courses should be selected from the following, with the student's future concentration in mind: ART 1661^{1,3}, 1762^{3,4}, 1848^{1,2,3,4+6}, 1849⁴, 2050^{1,2,5+6}, 2655, 2995^{1,2,5+6}. Please find course descriptions in the *General Catalog* under *Courses of Instruction – Art*; and review the degree path for each concentration you are considering.

¹ Required for the printmaking concentration.

² Required for the graphic design concentration.

³ Required for the ceramics and sculpture concentrations.

⁴ Required for the painting and drawing concentration.

⁵ Required for the photography concentration.

⁶ Required for the digital art concentration.

Transfer Students

Transfer students from other institutions will be considered for admission to the Studio Art program and/or Foundations Program on a space-available basis. The same applies to students already enrolled at LSU who wish to transfer into the Studio Art program. Transfer students are strongly encouraged to apply for admission by February 15 for entry in the fall semester.

Substitution credit for art courses taken elsewhere will be considered if they are equivalent to courses required for the curriculum in Studio Art. Consideration will also be given to courses taken through an art program accredited by NASAD. Additionally, transferring students are expected to submit a portfolio of work completed in relevant courses for evaluation by faculty within the chosen concentration.

"D" Grades and Repetition of Courses

Studio Art majors must pass all required art and art history courses with a grade of "C" or better. A student who earns a "D" or "F" must retake the course.

Studio Art Foundations (24 credits) • ART 1011, 1012, 1360, 1847. Completion of four of the following seven courses: ART 1661^{1,3}, 1762^{3,4}, 1848^{1,2,3,4+6}, 1849⁴, 2050^{1,2,5+6}, 2655, and/or 2995^{1,2,5+6}

¹ Required for the printmaking concentration.

² Required for the graphic design concentration.

³ Required for both the ceramics and sculpture concentrations.

⁴ Required for the painting and drawing concentration.

⁵ Required for the photography concentration.

⁶ Required for the digital art concentration.

Studio Electives (6-15 credits)

Art History Requirements (15 credits) • ARTH 1440, 1441, three credit hours above 2000, and six credit hours above 4000

General Electives (0-6 credits)

General Education Requirements • See "Degree Requirements of the College." Thirty-nine hours of general education courses must be completed as required by the University.

CURRICULUM IN STUDIO ART

TOTAL SEM. HRS. • 120

**If two course sequence is taken in the physical sciences, the three-hour course must be from the life sciences, and vice versa.*

FRESHMAN YEAR	SEM. HRS.
Art 1011, 1012, 1360, 1661, 1762, 1847, 1848, 1849, 2050, 2655, 2995,	
Art History 1440, 1441,	24-21
Area of concentration course.....	0-3
English 1001.....	3
General education analytical reasoning course (from mathematics)	<u>3</u>
	<u>30</u>

SOPHOMORE YEAR	SEM. HRS.
Art 1360, 1661, 1762, 1848, 1849, 2050, 2655, 2995	6-9
Area of concentration courses	15-6
Studio art elective.....	0-3
Art History 2000 level or above	3
English 2000	3
General education analytical reasoning course	3
General education social science course.....	3
	<u>30</u>

JUNIOR YEAR	SEM. HRS.
Area of concentration courses	9-15
Studio art elective.....	3-0
Art History 4000 level course	3-6
General education natural sciences courses (sequence).....	6
General education humanities course	3
General education social science course(2000 or above).....	3
General elective	0-3
	<u>30</u>

SENIOR YEAR	SEM. HRS.
Area of concentration courses	15-9
Studio art elective.....	0-3
Art History 4000 level course	0-3
General education humanities courses	6
General education natural sciences course* ..	3
General elective	0-6
	<u>30</u>

Areas of Concentration

◆ **Ceramics (30 hrs.)** • Three credit hours each of: ART 1662 and 4691; a total of nine credit hours from: ART 2655, 2661, 2761; and a total of fifteen credit hours from ART 4641, 4651, 4661, 4761

◆ **Digital Art (36 hrs.)** • Three credit hours each of: ART 2055, 2360, 2392, 2551, 3992, 4020, 4030, 4050, 4055, 4391, 4560, 4992

◆ **Graphic Design (33 hrs.)** • Three credit hours each of: ART 2544, 2552, 2554, 2564, 4526, 4527, 4551, 4555, 4564, 4567, 4576

◆ **Painting and Drawing (33 hrs.)** • Three credit hours each of: ART 2879, 4880, 4881, 4887, 4889; six credit hours each of ART 2881, 4800, and 4884

◆ **Photography (33 hrs.)** • Three credit hours each of ART 2996, 3992, 3994, 3996, and 4998; six credit hours each of: ART 4941; and a total of twelve credit hours from ART 4941, 4994, 4996, 4997

◆ **Printmaking (39 hrs.)** • Three credit hours each of ART 1849, 2360, 2381, 2392, 2879, and six additional credit hours of printmaking at the 2000 level; ART 4360, 4887, or 4889; six additional credit hrs. of printmaking at the 4000 level; and six credit hrs. of ART 4300

◆ **Sculpture (30 hrs.)** • Three credit hours each of: ART 1848 and 4762; a total of nine credit hours from ART 2655, 2661, 2761; and a total of fifteen credit hours from: ART 4641, 4651, 4661, and 4761

Minor Programs

Students who major in one of the above studio art concentrations or students from other academic disciplines may pursue an undergraduate minor in one of the areas below. The requirements are as follows (please check prerequisites for all courses):

► AVATAR Digital Media – Arts

To earn a *Digital Media AVATAR Arts minor* a student must complete 21 credit hours of coursework. These must include: CSC 1253 or CSC 1350; one course from ART 1001, 1011, ARTH 2470, MUS 1731, 1751, 1799, ENGL 2009; nine credit hours of approved arts electives; three credit hours of approved engineering and/or science electives; and the three credit hour Art AVATAR capstone course, ART 4059.

► Ceramics

To graduate with a minor in *ceramics*, students must complete ART 1661, 1662, 2661 (repeated for six hours of credit), and six sem. hrs. of ceramics courses at the 4000 level.

► Painting and Drawing

To graduate with a minor in *painting and drawing*, students must complete ART 2879, 2881, 4880, 4881, 4889; and three credit hours from: ART 4882, 4884, or 4886.

► Photography

To graduate with a minor in *photography*, students must complete ART 2995, 2996, 3994, 3996, 4941, and three credit hours from: ART 3997, 4994, 4996, or 4997.

► Printmaking

To graduate with a minor in *printmaking*, students must complete ART 1361, 1371, six semester hours of printmaking courses at the 2000 level, and six semester hours of printmaking courses at the 4000 level.

► Sculpture

To graduate with a minor in *sculpture*, students must complete ART 2761 and 4761 (repeated for nine credit hours each).

► Visual Communications (only for students enrolled in the School of Mass Communication)

To graduate with a minor in *visual communications*, students must complete ART 1008, 1010, 1551, 2050, 2055, 4561. Laptop computer required. Continuation in the visual communications minor is subject to portfolio review of work from ART 1008 and 1010.

Art Curricula Outside the School of Art

Other undergraduate degree programs in art are offered by academic divisions outside the College of Art & Design. The College of

Arts and Sciences offers a *Bachelor of Arts in Liberal Arts degree with a concentration in art history*. General requirements for this degree may be found in the sections, "Degree Requirements of the College," and "Liberal Arts," in the "College of Arts and Sciences" section of this catalog.

Students interested in pursuing this degree should confer with a counselor in the School of Art and the College of Arts and Sciences. The art history area offers a wide range of courses in all major historical eras. Students graduating from the program are prepared to continue their education in graduate school or to enter a variety of related fields without additional training beyond the college level.

DEPARTMENT OF INTERIOR DESIGN

OFFICE • 402 Design Building
TELEPHONE • 225-578-8422
FAX • 225-578-8457

Bachelor of Interior Design Degree

The Bachelor of Interior Design curriculum at LSU is accredited by the Council for Interior Design Accreditation (CIDA, formerly FIDER).

Interior design involves shaping, planning, and furnishing interior spaces ranging in scale from single family residences to large commercial and institutional projects. Designers work with architects, developers, or private clients to create distinctive spaces that enhance the quality of life, increase productivity, and protect the health, safety, and welfare of the public. Specific requirements addressing education, practical experience, and professional examination regulate the practice of interior design in Louisiana and many other states. Opportunity exists within the profession to focus on specializations such as lighting, furniture and exhibition design, historic restoration, and set design.

Within the curriculum, creative problem solving, research and analysis, and graphic skills are emphasized. The design studios form the core of the educational experience. Complementing this strong emphasis on design are liberal arts, technical, professional, and communication course requirements. A required internship offers additional preparation and insight into the profession. Service learning and study abroad opportunities are promoted. An intensive senior capstone project is completed in the fourth year. Interdisciplinary work with other disciplines in the College of Art & Design is encouraged.

Admission Requirements

First Year Admission • Entry into the first year interior design foundation courses is selective. Incoming freshmen intending to major in interior design must apply for admission into the interior design foundation level. High school academic gpa and SAT or ACT scores are the determinants for entrance. Applicants with portfolios or other factors for consideration are encouraged to contact the Department of Interior Design and/or schedule an on-campus interview. Students should apply early as admission is

competitive.

Students with the highest qualifications will be approved for pre-interior design admission and allowed to take the beginning design foundation courses. Students who have been selected for pre-interior design admission will be notified in writing. Transfer students and LSU students with a minimum 2.75 gpa will be considered for admission on a space available basis in the fall and spring semesters.

Admission for the Second Year •

Admission into the professional program (years two through four) is competitive for the limited positions available. Admission is selective and is based on a scholastic and portfolio review. Applications are accepted only in the spring semester and must meet the following requirements:

- Completion or enrollment in the first year foundation courses (ID 1051, 1780, ART 1011, 1847)
- Earned cumulative gpa of at least 2.75 at time of application
- Portfolio of art and design work representative of required first-year foundation studio courses

Application forms, deadlines, instructions, and portfolio submission guidelines may be obtained in February in Room 402 Design Building, or on the Department of Interior Design's Web site (www.id.lsu.edu).

Qualified transfer students from CIDA-accredited interior design programs may be considered for upper level placement. Transfer students seeking credit for design courses must submit a portfolio for evaluation and are expected to have earned an cumulative gpa of at least 2.75. Students from two and three-year pre-professional programs are normally required to participate in the selective admission procedure. Credit earned from non-accredited programs may be accepted if it is determined to be equivalent. All transfer students are accepted on a space-available basis.

Personal Computer Requirement •

After acceptance into the professional program (or the beginning of year two), students are required to have their own personal computer. Information may be obtained in Room 402 Design Building.

D*Grades and Repetition of Courses •

Interior design majors must pass the following courses with a grade of "C" or better: (1) all required College of Art & Design courses and approved professional electives; and (2) English 2000. A student who earns a "D" or "F" in a course in which a minimum grade of "C" is required must register for the course again in the next regular semester in which the student is enrolled and the course is offered.

CURRICULUM IN INTERIOR DESIGN

TOTAL SEM. HRS. • 135

Approved College Electives • select nine sem. hrs. from courses in architecture, art, interior design, and landscape architecture. Six sem. hrs. must be in studio courses. ART 1001 may not be used for degree credit.

Specified General Education Courses •

A communication studies course is specified as three hours of the humanities requirement.

An English course is specified as three hours of the humanities requirement. Economics 2000, 2010, 2030 or 2031 is specified as the social science requirement. Art History 1440 required in the interior design major also fulfills the general education arts requirement.

FRESHMAN YEAR	SEM. HRS.
Art 1011, 1847.....	6
Art History 1440, 1441.....	6
English 1001.....	3
Interior Design 1051, 1780.....	6
Mathematics 1021 or 1029.....	3
General education analytical reasoning course.....	3
General education communication studies humanities course.....	3
General education economics social sciences course.....	3
	<u>33</u>

SOPHOMORE YEAR	SEM. HRS.
Architecture 3005, 3006.....	6
English 2000.....	3
Interior Design 2750, 2751.....	8
Interior Design 2770, 2781.....	6
Interior Design 2774, 2775, 2785.....	9
General education English humanities course.....	3
	<u>35</u>

JUNIOR YEAR	SEM. HRS.
Interior Design 3741, 3742.....	6
Interior Design 3752 3753.....	8
Interior Design 3751, 3759, 3765, 3782, or 3786.....	3
Interior Design 3761, 3770.....	6
Approved college elective.....	3
General education natural science courses.....	9
	<u>35</u>

SENIOR YEAR	SEM. HRS.
Interior Design 4754, 4755,.....	8
Interior Design 4720, 4756.....	6
Interior Design 3751, 3759, 3765, 3782, or 3786.....	3
Interior Design 4761.....	3
Approved college electives.....	6
General education humanities course.....	3
General education social sciences course.....	3
	<u>32</u>

ROBERT REICH SCHOOL OF LANDSCAPE ARCHITECTURE

OFFICE • 302 Design Building
 TELEPHONE • 225-578-1434
 FAX • 225-578-1445

Landscape architecture offers accredited professional degree programs at both the undergraduate and graduate levels. Preparation for the profession of landscape architecture requires both formal education and practical experience followed by professional examination and registration. LSU is the only school in Louisiana with an accredited program in landscape architecture, attracting students from the U.S. and overseas.

Landscape architecture is a discipline that combines the arts and sciences in a field involving the shaping of the landscape through design. It offers opportunities to students interested in art and design, the natural environment, construction technology, sustainability, cities, and urbanism. The five-year curriculum offers a well-rounded course of study based on standards set by the Landscape Architecture Accreditation Board.

The program is a rich educational experience that provides students with a design education supported by studies in history and theory, representation, technology, and the natural sciences. Students may also complete the degree in a four-year accelerated program.

The Robert Reich School of Landscape Architecture offers many opportunities for students to travel and study overseas. Extensive field trips with the United States are part of the core curriculum and students are encouraged to take advantage of exchange and internship programs in Europe and the Asia Pacific Region.

Graduates of this program find employment within Louisiana, throughout the United States and overseas. Upon satisfactory completion of the undergraduate program, the degree Bachelor of Landscape Architecture is awarded.

Each year more than 25 students are selected to receive scholarships or other financial awards. Students interested in applying for aid offered by the Robert Reich School of Landscape Architecture should contact the school office.

Undergraduate Admission

Requirements • A student will be admitted to the curriculum in landscape architecture subject to gpa, courses completed, and space availability.

Upper Division (3000-level courses).

Admission into the third year of study is competitive, based on a scholastic and portfolio review. No more than 36 students will be approved for advancement to the upper division each year based on this review.

Applicants must meet the following requirements to be considered for admission:

- A 2.50 gpa on all courses completed and on all landscape architecture courses completed
- Completion of required courses or their equivalents: ENGL 2000; GEOG 2050, 2051; LA 2002, 2101, 2201, 2301, 2401; MATH 1022

Professional Courses (5000-level).

Students must have successfully completed all required 1000-4000 level courses before they may enroll in 5000-level courses.

Transfer Students. Students seeking to transfer into the landscape architecture major may be admitted only after having been interviewed by the program coordinator. For credit in design studio courses, students must submit a portfolio for faculty evaluation. Credit for landscape architecture courses will be considered only if they were taken as part of an accredited landscape architecture program. Transfer students are strongly encouraged to apply prior to March 1 for admission in the following fall semester.

Personal Computer Requirement •

Students are required to have their own personal computer upon entering the spring semester of first-year courses. Contact the Robert Reich School of Landscape Architecture for information regarding the type, specifications, and software.

C*Grades • Landscape Architecture

majors must pass all required College of Art & Design courses, all approved electives, and English 2000 with a grade of "C" or better. A student who earns less than a "C" in one of these courses must repeat the course in the next regular semester in which the student is enrolled and the course is offered.

CURRICULUM IN LANDSCAPE ARCHITECTURE

TOTAL SEM. HRS. • 159

In this curriculum, sequential course progress is imperative. A student failing to complete any required course more than one year later than the time designated in the curriculum is prohibited from advancement in the design studio sequence until the deficiency is corrected. All required courses listed in the fourth year must be completed before a student will be allowed to enroll in the designated 5000-level courses. Students should complete these requirements by the end of their third year.

All elective courses must be approved by the school director or designated advisor.

In addition to the six hours of general education English courses, all students must take a three-hour English writing or a foreign language course as an approved elective.

FRESHMAN YEAR	SEM. HRS.
English 1001	3
Landscape Architecture 1101, 1102, 1203	9
Mathematics 1021, 1022	6
Geography 2050, 2051	6
General education humanities course	3
General education social sciences course	3
	30

SOPHOMORE YEAR	SEM. HRS.
Architecture 3006.....	3
English 2000	3
Landscape Architecture 2001, 2002, 2101, 2201, 2301, 2401	24
RNR 1001	3
	33

JUNIOR YEAR	SEM. HRS.
Landscape Architecture 3001, 3002, 3201, 3301, 3302, 3401, 3402.....	27
General education humanities course	3
General education social science course.....	3
Approved elective	3
	36

SENIOR YEAR	SEM. HRS.
Landscape Architecture 4001, 4002, 4201, 4301	18
Approved electives.....	12
	30

FIFTH YEAR	SEM. HRS.
Landscape Architecture 5001, 5002, 5201, 5301	18
Natural systems elective.....	3
Approved electives.....	9
	30

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COLLEGE OF

Arts & Sciences

GAINES M. FOSTER
Interim Dean

JANET L. McDONALD
Interim Associate Dean

MARGARET PARKER
Associate Dean

REBECCA CAIRE
Assistant Dean

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MELANIE BUCHMANN
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KENDALL BROWN
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STEPHANIE ERIE
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The College of Arts & Sciences' primary purpose is to afford the student a liberal education, which by its nature is broad rather than narrow, devoted to intellectual development and discipline rather than to the acquisition of technical skills. It should give the student some knowledge of the achievements of the human mind, with special reference to the western civilization of which both the ancient world and contemporary America are parts; the historical and cultural backgrounds essential to a true understanding of our world; and above all, orderly thinking processes and a scale of values by which the distinction can be made between permanent and trivial, substantial and pretentious, good and bad. To that end, some familiarity with historical and political studies, the sciences, and the arts is necessary.

As a human being and as a citizen, the student will find this education of lasting significance. As a member of a profession, each student will find desirable backgrounds for scholarship and teaching in all fields of knowledge and for law and medicine, which stress, increasingly, the value of broad intellectual training.

The curricula within the college require a number of courses which are deemed essential—individually and as a group—to the intellectual competence at which the liberal education aims; in addition to these, the student has electives which may be used to further general knowledge or to specialize in certain fields.

To accomplish its primary purpose, the college offers Bachelor of Arts, Bachelor of Science, and Bachelor of General Studies degrees. Students may choose from 21 major areas of study and 40 concentrations. By completing a major in the college, the student will obtain a much broader background than is generally possible under the standard curriculum. The advantages of broad training for everyday life are obvious. Moreover, the added breadth of knowledge will be helpful in case the student continues beyond the bachelor's degree level. The teaching divisions within the college, the various curricula, and the degrees which are offered are shown in the chart on the following page.

STUDENT RESPONSIBILITY

Students in this college bear final responsibility for selection of their academic programs and adherence to all published regulations and requirements of the college and the University. Each student must see a counselor for a final degree checkout during the semester *prior to* the semester in which the degree is to be awarded.

Ignorance of a rule is not grounds for waiving that rule.

ADMISSION REQUIREMENTS

Students will be admissible to the College of Arts & Sciences if they have earned at least 24 semester hours; have a grade point average of at least 2.00 ("A" = 4) in all work taken within the LSU System and in all work taken overall; completed ENGL 1001 with a "C" or better; and completed three hours of the general education analytical reasoning requirement.

Students majoring in psychology, communication sciences and disorders, or any of the secondary education areas of concentration must have a gpa of at least 2.50 in all work taken within the LSU System and in all work taken overall. Students majoring in any of the secondary education areas of concentration must have a passing score on the PRAXIS I assessments or minimum ACT composite of 22 or minimum SAT composite of 1030 to declare their respective concentration.

Transfer students from other divisions of the University and other accredited colleges and universities must meet the eligibility requirements stated above. Transfer credits acceptable for admission shall be valid for degree credit in the college only to the extent to which they represent courses acceptable in the curricula of the college.

GENERAL EDUCATION REQUIREMENTS

General education requirements of the University are included in the curricula of the various departments in the college. For specific information concerning these requirements, see the "General Education Requirements" section of this catalog.

DEGREE REQUIREMENTS OF THE COLLEGE

General Requirements

In order to qualify for a bachelor's degree in this college, a candidate must satisfy these requirements:

- Meet departmental requirements for the major and all university requirements as detailed in the *General Education Requirements* chapter of this catalog, except that the general education *humanities* requirement cannot be fulfilled with a foreign language. (Students who break residence, either voluntarily or by compulsion, for at least two consecutive semesters *may not* elect a catalog earlier than the one in force at the time of their re-entry.)
- A minimum gpa of 2.00 on all work taken in the LSU System and on all work taken overall. A 2.50 LSU and cumulative grade point average is required for students graduating in any of the secondary education concentrations.
- A minimum gpa in the major field of 2.00 on all work taken in the LSU System and on all work taken.
- A minimum grade of "C" in all academic content (major) and education courses for students in secondary education concentrations (English, French, history, mathematics, or Spanish).
- A minimum of 30 semester hours in courses numbered 3000 or above. A minimum of 45 hours in courses numbered 3000 or above for the general studies major (15 of which must be at the 4000-level).
- Degree credit will not be allowed for more than nine semester hours of 1000-level mathematics courses below 1550.

COLLEGE OF ARTS & SCIENCES • UNDERGRADUATE DEGREES

Departments/Schools	Curricula	Degrees
Department of Communication Sciences & Disorders	Communication Disorders	Bachelor of Arts
Department of Communication Studies	Communication Studies	
Department of English	English	
Department of Foreign Languages & Literatures	German	
	Latin	
	Spanish	
Department of French Studies	French	
Department of Geography & Anthropology	Anthropology	
	Geography*	
Department of History	History	
Department of Philosophy & Religious Studies	Philosophy	
Department of Political Science	Political Science	
Department of Sociology	Sociology	
Intercollegiate and Interdepartmental Programs	Economics	
	International Studies	
	Liberal Arts	
	Women's and Gender Studies	
Department of Geography & Anthropology	Geography*	Bachelor of Science
Department of Psychology	Psychology	
Intercollegiate Program	General Studies	Bachelor of General Studies
Department of Aerospace Studies		
Department of Military Science		

* Both the Bachelor of Arts and the Bachelor of Science may be earned in geography.

- A minimum of 15 semester hours in residence in the major field, including at least nine semester hours in courses numbered 3000 or above.
- A minimum of 30 semester hours in residence in the college. The last year of work (last 30 semester hours) will be taken in residence in this college on the LSU campus.
- *Foreign Language*—A minimum of 14-16 credits (four semesters) in a foreign language for the BA or BS degrees. Students should take a placement test and register at the appropriate level.
 - Students who have a native fluency in a language other than English may satisfy the foreign language requirement in one of three ways: (a) by completing the prescribed number of hours in the curriculum for the BA or BS degree in a language *other than* English or their native language; (b) by taking a minimum of 12 hours in courses numbered 3000 or above in their native language; or (c) by taking nine semester hours of English and/or communication studies above the minimum general education or major

requirements. (Only three hours may be earned in English 2001, 2002, or 2010 to meet this requirement. Professional and specialized courses in communication studies may not be counted toward this requirement.) Students who have a native fluency in a language other than English should consult credit restrictions in that language under the appropriate foreign language department entry in this section of the catalog.

- **Grade Point Average Maintenance**—A student who fails to earn a 2.00 semester average in any one semester, regardless of cumulative gpa, will be placed on college probation. To be removed from college probation, a student must earn a 2.00 or better semester gpa, correct course deficiencies, and make satisfactory progress in the degree program. A student who fails to earn a 2.00 gpa for two consecutive semesters, regardless of cumulative gpa, will be dropped from the college.
- **Scholastic Requirements**—Full-time students are expected to make reasonable and satisfactory progress in a degree program. For General Studies majors, satisfactory progress is defined as two courses per minor per academic year until the minor is completed. For all other majors, satisfactory progress is defined as three courses per academic year in the major. A student who fails to make satisfactory progress in his or her major in any one academic year will have his or her record reviewed with the possibility of being placed on college probation for the following academic year. Any student who fails to make satisfactory progress in their major for two consecutive academic years will be dropped from the college.

The college reserves the right to review at any time a student's suitability to continue in a degree program.

ENROLLMENT IN TWO DEGREE PROGRAMS

Double Majors—Students may pursue double majors in this college. By completing all residence and academic requirements for the two programs, a student may earn one bachelor's degree with two majors.

Dual Degrees Within the College of Arts & Sciences—Students may pursue dual degrees in this college. Both majors must be offered by departments within the college. By completing residence and academic requirements, and earning 30 hours over the degree requirements, a student may earn two separate bachelor's degrees.

Dual Enrollment in the College of Arts & Sciences and a Second Academic College—By completing residence and academic requirements for two degree programs and earning 30 hours more than the degree requiring the fewer number of hours, a student can earn two bachelor's degrees. The student must be accepted for admission to both colleges. In addition, the student must declare a home college where registration will be initiated and permanent files maintained. It is the student's responsibility, however, to maintain contact with the second college to ensure that satisfactory progress is being made

toward that degree.

REQUIREMENTS FOR A SECOND BACHELOR'S DEGREE

To qualify for a second bachelor's degree in this college, students must meet the admission requirements of the college and the department. Once admitted, students must complete (with at least a 2.00 gpa) a minimum of 30 semester hours, including any degree requirements not previously met. The 30 hours must be completed in residence in the College of Arts & Sciences.

MINOR FIELD REQUIREMENTS (OPTIONAL)

Although students are not required to pursue a minor field (except in the general studies major), they may choose to do so under the following guidelines:

- Earn a minimum of 15-18 semester hours in the minor field, of which at least six semester hours must be in courses taken on this campus at the 3000- and/or 4000-level; see individual departments in the "Departments, Schools, and Curricula" section of this chapter for more specific requirements.
- Earn a minimum gpa in the *minor field* of 2.00 on all work taken in the LSU System and on all work taken overall.
- Courses used to satisfy minor requirements may not be taken on a pass/fail basis.

Minor fields may be selected from any major field currently offered by the college in which appropriate requirements for a minor have been established or any field of an interdisciplinary nature for which a minor has been approved by the Faculty Senate Courses and Curricula Committee and the Office of Academic Affairs.

Minors may also be taken in fields outside the college if:

- the total number of semester hours does not exceed 24 (total number of non Arts and Sciences electives that may be counted toward graduation);
- the work conforms to guidelines established by the department, school, and college concerned;
- the work meets the general minor field requirements of the College of Arts & Sciences, as stated above.

The following are requirements for minor fields which are designed for students in the College of Arts & Sciences:

► Aerospace Studies

To graduate with a *minor in aerospace studies*, students must complete at least 18 hours of course work: 12 hours from ASST 3001, 3002, 4001, and 4002; and six hours of the following electives: ENGL 2012, and either MATH 1021, 1022, 1023, or 1550.

- Other elective courses acceptable for the minor in aerospace studies in lieu of ENGL 2012 include HIST 4055, 4066, or 4140.
- Students may earn up to an additional four hours beyond the minimum 18 hours by completing ASST 1001, 1002, 2001, or 2002 for a maximum of 22 hours.
- Students must obtain approval from the professor of aerospace studies prior to substituting HIST for ENGL, or any other course substitutions.

► African and African American Studies

To graduate with a *minor in African and African American studies*, students must complete AAAS 2000, AAAS 4020, and 12 hours of electives. Of the 12 hours, six must be at the 3000 level or above and at least three hours must focus on a geographical region other than the US. The electives must be chosen from at least two divisions and three departments:

- **Division I - History and Culture:** AAAS 2410, 3024, 3120 (Non-US), 3122 (Non-US), 3901, 3902; ANTH 4050, 4051 (Non-US), 4053, 4470; HIST 2061, 4055, 4067, 4068, 4072, 4081 (Non-US), 4200
- **Division II - Politics and Society:** AAAS 2050 (Non-US), 2511, 3024, 3425, 3901, 3902; POLI 4038, 4039, 4078 (Non-US); SOCL 2721, 4511; WGS 2900
- **Division III - Literature, Language, and the Arts:** AAAS 1001 (Non-US), 1002 (Non-US), 2003 (Non-US), 2004 (Non-US), 2410, 3044, 3341, 3901, 3902, 4322 (Non-US), 4323 (Non-US); ENGL 2674, 3674, 4173, 4220, 4674; FREN 4064, 4070 (Non-US); LING 4716; MUS 2000

Note: This course listing is not exhaustive. Special topics courses relevant to AAAS offered by participating departments may be counted towards the minor requirements with prior approval from the program advisor. For additional information, contact the program director, African and African American Studies, 135 Howe-Russell, 225-578-4256, or via email at aaasdirector@lsu.edu.

► Art History

To graduate with a *minor in art history*, students in the College of Arts & Sciences must complete ARTH 1440, 1441, and 12 additional hours in art history at the 4000 level or above.

► Asian Studies

To graduate with a *minor in Asian studies*, students must complete at least 18 hours, including at least two courses from any two of the following three groups. Of these courses, at least six hours must be taken at LSU at the 3000 or 4000 level.

- **Humanities**—ARTH 2411, 4441, 4442, 4443, 4444; REL 2027, 3786, 4600, 4800; HIST 4078; HIST/REL 4191; CLST 3090; ENGL 3080, 4680; HNRS 1101, 1103; INTL 4002/ANTH 4002/GEOG 4002/REL 4001; INTL 4100
- **Social Sciences**—GEOG 1003, 4035; HIST 2095, 2096, 3117, 4050, 4091, 4092, 4093, 4094, 4097, 4098; POLI 4067, 4079; SW/GEOG 4000
- **Languages**—CHIN 1101, 1102, 2001, 2002, 2070, 3101, 3102, 4400, 4915; CHIN/JAPN 3801, 3802; JAPN 1001, 1002, 2001, 2002

Other courses acceptable for general credit in Asian Studies, subject to the approval of the Asian Studies faculty, include ECON 4520; HIST 4195; REL 3300.

For additional information, contact Dr. Gail Hinich Sutherland, 122 Coates Hall, 225-578-2221, gsuther@lsu.edu.

► Chinese Culture and Commerce

To graduate with a *minor in Chinese Culture and Commerce*, students must complete 18 hours, six hours from each of three groups listed below, at least six hours from 3000 or 4000 level.

Group I - Arts: Language and Literature, Film, and Popular Culture, Art: CHIN 1101, 1102, 2001, 2002, 3101, 3102, 3801, 3802, 4915, ARTH 2411, 4441

Group II - Commerce and Social Sciences: Geography and Anthropology, Political Science, Business: POLI 4067, 4079, ISDS 4160, GEOG 4037, MGT 3111 (when topic is China), MGT 4420 (when topic is China), BADM 4040, ECON 4530

Group III - History, Religion, Special Topics: HIST 2095, 2096, 4091, 4092, REL 2027, 4191, CHIN 2070, 4400

► Disaster Science and Management

The *minor in disaster science and management* is an interdisciplinary program which provides students interested in careers in the public, not-for-profit, or private sectors with a broad understanding of the nature and impact of disasters on the natural, built, and human environments; and a basis for establishing strategies to effectively plan for disasters, mitigate the adverse effects of disasters, respond to disasters, and recover from disasters.

A *minor in disaster science and management* is available by selecting the following courses: DSM 2000, DSM 2010, and DSM 3910. Four courses must be taken from the following: CE 4445 or CE 4745, DSM 2020, DSM 3200, DSM 3900, DSM 4000, DSM 4600, DSM 4900, DSM 4996, ECON 4320, EMS 4020, ENV 4010, ENV 4101 or CHEM 4150, ENV 4149, ENV 4262, ENV 4264, ENV 4477, GEOG 4013, GEOG 4015 or 4017, GEOG 4018, GEOG 4021, GEOG 4045, GEOG 4047, GEOG 4048, GEOG 4080, HUEC 4064, INTL 3001, LA 4204, OCS 4021, POLI 2057, POLI 4048, POLI 4059, POLI 4061, PSYC 3083, REL 3092 or INTL 3092, SOCL 4091, and SW 4500. Additional electives not listed above may be approved by a DSM Director. Students may wish to review course offerings at the University of New Orleans in Urban and Regional Planning, Sociology, Political Science and Public Administration as potential electives in the DSM Minor. Approval by a DSM director and the student's college must be obtained prior to enrolling at UNO for one of these classes.

► Film and Media Arts

To graduate with a *minor in film and media arts*, students must complete FMA 2001 and an additional 15 hours of electives from the following list. At least nine hours must be at the 3000 level or above, and no more than nine hours may be taken in any single department.

- FMA 3001, 4001; ARTH 4480; CLST 2070; CMST 2012, 3012, 3107, 4107, 4312; ENGL 2009, 2231, 4009, 4231; FREN 4031; GERM 4046; HIST 4077;

MC 2700; MUS 4747; PHIL 3002, 4002; REL 3238; RUSS 3501

- In addition, special topics courses and courses with sections relevant to film and media arts may be accepted for the minor.

For further information, contact Professor James V. Catano, 219A Allen Hall, 225-578-3140, fma@lsu.edu.

► Jewish Studies

To graduate with a *minor in Jewish Studies*, students in the College of Arts & Sciences must complete 15 hours of electives, including a minimum of six hours at the 3000-level or above. Electives must be chosen from at least two of the following areas:

- Religious Studies*—REL 1001, 1002, 1004, 1007, 2003, 2004, 2029, 2120, 3004, 3100, 3101, 3104, 3124, 4125, and depending on the topic 3236, 4236
- Hebrew*—HEBR 1001, 1002, 2003, 2004
- Literature*—ENGL 3124, and depending on the topic, 3220, 4055, 4086, 4122, 4231, 4236, 4593
- History*—HIST 4026, 4125
- Anthropology*—ANTH 3004

For courses that are listed “depending on the topic,” students are required to petition to have these courses count and present appropriate documentation indicating the work was completed. In addition, special topics courses and courses with sections advertised as Jewish studies may be accepted for the minor upon approval of the director.

For additional information, contact Associate Professor Daniel A. Novak, 212B Allen Hall, 225-578-2877, dnovak@lsu.edu.

► Political Discourse Studies

To graduate with a *minor in political discourse studies*, students must complete six hours from three of the following four fields for a total of 18 hours. In addition, at least 12 hours must be at the 3000-level or above.

- Communication Studies*—two chosen from CMST 3107, 4100, 4160
- Mass Communication*—two chosen from MC 3500, 4510, 4515
- Political Science*—POLI 2051 and one chosen from POLI 4030, 4034, 4039
- Sociology and Philosophy*—two chosen from SOCL 2501, 4421; PHIL 2000, 2020, 4945

For additional information, contact Dr. Cecil Eubanks, 240 Stubbs Hall, 225-578-2141.

► Professional Leadership

To graduate with a *minor in professional leadership*, students must complete MILS 3011, 3012, 3013, 4011, 4012, and courses in communications and military history approved by the professor of military science.

ELECTIVES

A student in the College of Arts & Sciences may elect for degree credit any course offered by the following programs, departments, or schools:

Aerospace Studies
African & African American Studies
Art
Art History
Biological Sciences
Chemistry
Computer Science
Communication Sciences & Disorders
Communication Studies
Comparative Literature
Curriculum & Instruction
Disaster Science & Management
Economics
Educational Leadership, Research, & Counseling
English
Entomology
Environmental Studies
Experimental Statistics
Film and Media Arts
Foreign Languages & Literatures
French Studies
Geography & Anthropology
Geology & Geophysics
History
Honors
International Studies
Linguistics
Mathematics
Military Science
Music
Oceanography & Coastal Sciences
Philosophy & Religious Studies
Physics & Astronomy
Plant Pathology & Crop Physiology
Political Science
Psychology
Sociology
Theatre
Women's & Gender Studies

Students may select elective courses in departments not listed above. Students must meet all prerequisites for these courses. Twenty-four semester hours of elective credit in such courses may be counted toward degree requirements from this college. A student may receive a maximum of 12 semester hours of degree credit in ROTC. No more than eight hours of kinesiology activity courses may count toward degree requirements from this college.

CORRESPONDENCE CREDIT

A maximum of 30 semester hours of credit in the above categories is acceptable toward meeting degree requirements. Students who wish to have correspondence credits accepted by this college must make their registration in correspondence courses a matter of record in the office of the dean of the college at the time of such registration.

Students registered in the college may enroll in a maximum of 19 semester hours of combined resident and correspondence course work during a regular semester. They may enroll in a maximum of 12 semester hours of combined resident and correspondence course work during a summer term. *Students may not be enrolled in correspondence course work within their last semester. All correspondence*

course work must be completed by the last weekday of final examinations in the semester prior to the one in which the student intends to graduate. Depending on the correspondence course, a special time limit may be imposed by the dean's office.

PASS-FAIL OPTION

Students in the College of Arts & Sciences may register for courses on a pass-fail basis under the following conditions:

- Only *free elective* courses may be taken on a pass-fail basis. Required courses and restricted electives may not be taken on a pass-fail basis. A student may *not* take courses offered by the Honors College on a pass-fail basis.
- A student must have permission (by signature on a petition form) from the dean of this college, the instructor of the course, and the dean of the college in which the course is offered.
- Pass-fail registration must be completed before the final day for adding courses.
- Eligible students may take one course per semester on a pass-fail basis.

Courses offered by the College of Arts & Sciences that are required in a student's curriculum will not be approved on a pass-fail basis.

TEACHER PREPARATION PROGRAM FOR GRADES 6-12

The departments of English, Foreign Languages & Literatures, French Studies, and History offer undergraduate degree programs with an area of concentration in secondary education (middle school and high school). Students in the program may receive a bachelor's degree in English, French, history, or Spanish and qualify for teacher certification. The curricula have been developed cooperatively with faculty in the College of Education and include courses taught jointly by faculty in the College of Arts & Sciences and the College of Education. Students completing these degree programs and meeting any additional requirements of the Louisiana State Department of Education will be eligible for certification in the state of Louisiana as teachers in grades six through 12.

The following requirements pertain to students enrolled in the secondary education concentration:

Admissions Requirements:

- Minimum cumulative and LSU grade point average of 2.50
- Passing scores on all parts of the Praxis I Series or minimum ACT composite score of 22 or minimum SAT composite score of 1030

Retention Requirements:

- Minimum cumulative and LSU Grade point average of 2.50 for entry into and continuation in upper (3000/4000) level education courses, including student teaching

Degree Requirements:

- Satisfactory completion of an approved program of study as determined by all of the following: faculty of the college in which the major/concentration resides, the University, the LSU P-12 Education Advisory Council, and the Louisiana Board of Elementary and Secondary

Education

- Minimum cumulative and LSU gpa of 2.50 on all work completed
- Passing scores on all required parts of the Praxis II Series
- Grade of "C" or higher in course work as specified by the Louisiana Board of Elementary and Secondary Education

A second option for students interested in teaching in the above areas at the middle/high school level is to pursue a traditional bachelor's degree in the content area and then complete a master's degree through the LSU College of Education. The master's degree program (Holmes Program) begins in June and requires 12 consecutive months of course work and classroom experience leading to both the master's degree and teaching certification. Information about the program and potential scholarship assistance is available through the College of Education, Office of Student Services.

PLACEMENT SERVICES

Students in this college may use the services of the University's Career Services Center. These services include counseling, job-seeking skills workshops, job search handbooks, résumé service, career days, and on-campus recruiting and interviews.

STUDY ABROAD

Students in the College of Arts & Sciences are encouraged to participate in the study abroad programs administered by the Office of Academic Programs Abroad and the International Student Exchange Program. Students who participate in these programs must receive departmental evaluations of the courses to be taken prior to going abroad. In addition, students must make an appointment with a counselor to ensure that degree credit will be granted upon return to LSU.

National Student Exchange

LSU cooperates with a number of other universities throughout the United States in an exchange program. Students may spend one year (usually the junior year) at another university at little or no more cost than they pay at LSU. Additional information can be obtained from the Office of Academic Programs Abroad.

PREPARATION FOR THE STUDY OF LAW

Because of the rich complexity of this discipline, students with very different academic backgrounds can undertake and excel in the study of law. *There is no single curriculum or course of study which is prerequisite to or guarantees success in law school.* Curricula in the College of Arts & Sciences provide excellent preparation for students who intend to study law.

The degree requirements of the college ensure the development of the following skills, which are essential components of pre-law training: (1) the ability to express oneself competently in writing; (2) the ability to understand the human institutions and values with which the law deals; and (3) the ability to think creatively. Students who

intend to pursue a legal career are therefore encouraged to choose a curriculum in the College of Arts & Sciences.

A&S STUDENT COUNCIL/CLUBS

The college's Student Council is composed of student representatives from the college's departments, as well as members at large. The purpose of the council is to enhance the academic environment in the college. In addition, many departments sponsor clubs with programs of interest to majors.

PHI BETA KAPPA

Seniors and juniors with gpas of at least 3.60 and 3.90, respectively, are considered for membership in Phi Beta Kappa, the oldest scholastic honor society in the United States. Excellence in a variety of intellectual disciplines, rather than proficiency in a single field of study, is the major criterion for election.

The academic record should include satisfactory completion of the general education requirement, including two courses in English or American literature or literature in a foreign language (if not the major field); six-hour sequences in both a life science and a physical science, with an additional two hours of related laboratory work in one of these fields; upper division courses (3000-level or above) in at least two different humanities or social sciences outside the major; and electives that show a commitment to a liberal education.

Sophomores and juniors should consult with Phi Beta Kappa officers for more specific information. Specific requirements are described on the Phi Beta Kappa Web site at www.lsu.edu/student_organizations/phibetakappa/.

PHI KAPPA PHI

Founded in 1897 at the University of Maine, Phi Kappa Phi is the nation's oldest, largest, and most selective honor society for all academic disciplines. Its chapters are on nearly 300 campuses in the United States, Puerto Rico, and the Philippines. Each year, approximately 30,000 members are initiated. Some of the organization's more notable members include former President Jimmy Carter, writer John Grisham, NASA astronaut Wendy Lawrence, and Netscape founder James Barksdale. The LSU chapter was founded in 1930 as the 43rd chapter in the nation.

The mission of Phi Kappa Phi is to recognize and promote academic excellence in all fields of higher education and to engage the community of scholars in service to others. Phi Kappa Phi is unique because it recognizes superior scholarship in *all academic fields*, rather than restricting membership to a limited field. Juniors in the top 7.5 percent and seniors and graduate students in the top 10 percent of their classes may be invited to become members of Phi Kappa Phi. New LSU Phi Kappa Phi members are initiated and honored in the spring semester each year and wear identifying ribbons on their academic gowns at commencement exercises. Additional information about the Society may be found at www.phikappaphi.org.

GRADUATION WITH COLLEGE HONORS

To graduate "with College Honors" in the College of Arts & Sciences, a student must meet the following requirements:

- achieve "Sophomore Honors Distinction"
- take at least 12 semester hours of honors seminars or departmental honors courses beyond the minimum required for "Sophomore Honors Distinction"
- register in a curriculum offered in the College of Arts & Sciences
- complete a curriculum of courses approved by the department concerned and by the dean and the faculty of the Honors College. This curriculum should be developed using the general curricular principles of the college, the purposes of which are to afford students a liberal education and to include (besides the major field) historical and political studies, the life and physical sciences, the humanities, and the arts
- demonstrate competence in a major field by doing independent research, writing a senior thesis, and taking an oral examination. The thesis counselor and one additional member of the student's committee must be from the student's major department.
- after the freshman year, maintain at least a 3.33 gpa ("A" = 4.00)

HONORS COURSES

Besides courses offered through the Honors College, other honors courses are offered through various departments, including:

Anthropology 4999
 Biological Sciences 1503
 Chemistry 1421, 1422, 1431, 1432, 2463
 Communication Studies 2862
 English 1003, 3000, 3820, 3821, 3822, 3823, 3824, 3825
 French 2103, 2104
 Geography 4999
 Geology 1002, 1004
 History 1002, 1004, 2056, 2058
 Mathematics 1101, 1551, 1553, 2058, 2086
 Philosophy 2034, 2036, 2953, 2963, 2964, 2965
 Physics 1201, 1202, 1208, 1209
 Political Science 2052, 3000, 3809, 3896, 3897
 Psychology 2001
 Religious Studies 1006
 Sociology 3905

DEPARTMENTS AND CURRICULA

DEPARTMENT OF AEROSPACE STUDIES

OFFICE • 105 Military Science/Aerospace Studies Bldg.
 TELEPHONE • 225-578-4407
 FAX • 225-578-4537
 E-MAIL • Det310@maxwell.af.mil
 WEB SITE • www.afrotc.lsu.edu

For information on this department's program, see the "Reserve Officers Training Corps" section of this catalog.

For information on the department's course offerings, see the "Courses of Instruction" chapter in this catalog.

DEPARTMENT OF COMMUNICATION SCIENCES AND DISORDERS

OFFICE • 64 Hatcher Hall
 TELEPHONE • 225-578-2545
 FAX • 225-578-2528
 WEB SITE • www.lsu.edu/comd
 E-MAIL • ravenj@lsu.edu

The undergraduate curriculum is designed to provide majors with a liberal arts education and to prepare them for entry into graduate programs in communication disorders. In the master's program, students are provided with clinical experiences and academic course work necessary for national clinical certification in speech-language pathology. The doctoral program is geared toward the development of scholarship and research skills to prepare students for traditional academic positions, both in the basic sciences of speech, language, and hearing and in clinical aspects of communication disorders.

LSU Speech and Hearing Clinic • As part of its training program, which is accredited in speech-language pathology, the department maintains a clinic for the diagnosis and treatment of communication disorders including articulation, dysfluency, cleft palate, voice disorders, aphasia, cerebral palsy, children's language disorders, and hearing disorders. Clinical services are available to any individual, University student, or community member having speech, hearing, or language problems. Services are free to LSU students.

Graduate students concentrating in speech-language pathology obtain practicum experience in the University clinic and in community clinics with which the University training program is affiliated, such as the Baton Rouge Speech and Hearing Foundation, Baton Rouge General Medical Center, Ochsner Clinic, Our Lady of the Lake Regional Medical Center, Earl K. Long Medical Center, Veteran's Administration hospitals, public schools, and other sites.

Those requesting clinical services should contact the Speech and Hearing Clinic in Hatcher Hall (225-578-9054).

CURRICULUM IN COMMUNICATION DISORDERS

TOTAL SEM. HRS. • 120

Admission to a curriculum in the Department of Communication Sciences and Disorders requires that a student be admissible to the College of Arts & Sciences and have a gpa of 2.50 or above on all work taken within the LSU System and on all work taken overall. Majors in Communication Disorders are required to take the following courses: BIOL 2160, EXST 2201, COMD 2050, 2081, 4150, 4153, 4190, 4250, 4380, 4381, 4382, and 4590. For any of the following courses used to satisfy this requirement, a grade of "C" or higher is required: COMD 4380, 4381, 4382, and 4590. Prospective students who have not attained a 2.50 average may petition the Department's

Committee of Undergraduate Advisors for a waiver of the 2.50 requirement based on special circumstances.

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education life and physical sciences, literature, mathematics, and social sciences requirements.

**If two course natural science sequence is taken in the physical sciences, the three-hour natural science course must be taken from the life sciences, and vice versa.*

FRESHMAN YEAR	SEM.	HRS.
English 1001 or 1004		3
Foreign language courses	8-10	
General education analytical reasoning course (from mathematics dept)		3
General education humanities course		3
General education natural science course sequence		6
General education arts course		3
General education social science course		3
		—
		29-31

SOPHOMORE YEAR	SEM.	HRS.
Biological Sciences 2160		3
English 2000		3
Foreign language	8-6	
General education natural science course*		3
General education humanities course		3
Experimental Statistics 2201		4
General education social science course		3
(2000-level or above)		
Communication Disorders 2050, 2081		6
		—
		33-31

JUNIOR YEAR	SEM.	HRS.
Communication Disorders 4150, 4153, 4190, 4250, 4380, 4381, 4382		23
Approved electives		6
		—
		29

SENIOR YEAR	SEM.	HRS.
Communication Disorders 4590		3
Approved electives		26
		—
		29

DEPARTMENT OF COMMUNICATION STUDIES

OFFICE • 136 Coates Hall
 TELEPHONE • 225-578-4172
 FAX • 225-578-4828
 WEB SITE • www.lsu.edu/cmst

Communication Studies explores how people sustain and change, experience, and make sense of the world through symbolic action. Students develop conceptual skills to analyze written, oral, and visual messages. Students gain practical experience in such areas such as public speaking, group decision-making, performance, and film. Such skills are elemental to careers in business, government, law, social services, and the arts.

The program consists of three areas: rhetoric, performance studies, and communication theory. In rhetoric, students examine public discourse and persuasion. Course topics include rhetorical criticism, political communication, and visual rhetoric. In performance studies, students investigate everyday life performance, experimental forms, and the performance of literature and other texts, including film and video. In

communication theory, students focus on personal and organizational settings, studying such topics as family, health, and nonverbal communicative processes.

Students are encouraged to participate in extracurricular activities, such as public performances in the HopKins Black Box and the Mixon Lyceum, our forensics and debate team.

A *minor in communication studies* requires CMST 1150 or 1061 and at least 12 additional hours in departmental courses, of which at least six hours must be at the 3000 level or above.

CURRICULUM IN COMMUNICATION STUDIES

TOTAL SEM. HRS. • 120

MAJORS in Communication Studies must complete a minimum of 36 semester hours of approved electives in the department. At least 12 of these hours must be numbered 3000 or above. Students should contact the undergraduate advisor to decide on a program of approved electives; see the CMST Web site for suggestions on topical foci. Twelve hours of core courses are required: CMST 1150; 2060; 2010 or 2064; and 2040.

Consult "Degree Requirements of the College" for specific instructions regarding electives and foreign language requirements. Consult the "General Education" section of the catalog for the University's general education requirements.

The department requires that the two course sequence in natural science be accompanied by two hours of corresponding labs.

**If two course natural science sequence is taken in the physical sciences, the three hour natural science course must be from the life sciences, and vice versa.*

The departmental computer literacy requirement is satisfied by taking LIS 1001.

FRESHMAN YEAR	SEM. HRS.
English 1001 or 1004	3
Foreign language courses	8-10
Communication studies 1150 and 2060	6
General education analytical reasoning course (from mathematics department) ..	3
General education natural science course sequence	6
Labs corresponding to science sequence	2
Library and Information Science 1001	1
	29-31
SOPHOMORE YEAR	SEM. HRS.
English 2000	3
Foreign language	8-6
General education analytical reasoning course	3
General education natural science course* ..	3
Communication studies 2040 and either 2010 or 2064	6
Electives	6
	29-27
JUNIOR YEAR	SEM. HRS.
Approved departmental electives	12
General education humanities courses	6
General education social science course	3
General education social science course (2000 level or above)	3
Electives	8
	32

SENIOR YEAR	SEM. HRS.
Approved departmental electives	12
General education arts course	3
General education humanities course	3
Electives	12
	30

COMPARATIVE LITERATURE

OFFICE • 416 Hodges Hall
TELEPHONE • 225-578-6627
FAX • 225-578-6628
WEB SITE • artsci.lsu.edu/complit
E-MAIL • complitlsu@lsu.edu

The program offers the Master of Arts and PhD degrees with majors in comparative literature. Required courses include:

- *History of Literary Criticism: From Antiquity to the Enlightenment—CPLT 7010*
- *Modern Literary Criticism and Theory—CPLT 7020*
- *Topics in Theory of Criticism—CPLT 7120*
- *Topics in Comparative Literature—CPLT 7130*
- *Topics in the Interdisciplinary Study of Literature—CPLT 7140*

The program also offers a graduate *minor in comparative literature*, which requires 12 hours of CPLT courses.

ECONOMICS (INTERCOLLEGIATE PROGRAM)

To graduate with a *minor in economics*, students in the College of Arts & Sciences must complete Economics 2030 (or 2000 and 2010), 2035, 4720, 4710, and six additional hours in economics.

Students *majoring in economics* in the College of Arts & Sciences are required to take Economics 2000, 2010, 2035, 4720, and 4710. If graduate study in economics is anticipated, it is strongly recommended that the calculus sequence consisting of MATH 1550, 1552, and 2085 be taken.

CURRICULUM IN ECONOMICS

TOTAL SEM. HRS. • 128

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education life and physical sciences, literature, mathematics, and social sciences requirements.

If graduate study in economics is anticipated, it is strongly recommended that the calculus sequence, MATH 1550, 1552, and 2085, be taken.

***If sequence is taken in life science, this alternate science should be in the physical science category and vice versa.*

FRESHMAN YEAR	SEM. HRS.
Economics 2000, 2010	6
English 1001	3
Foreign language courses	8-10
Mathematics 1021	3
General education life or physical sciences (two semesters lecture sequence with corresponding labs)	8
Approved history elective	3
	31-33

SOPHOMORE YEAR	SEM. HRS.
Economics 2035	3
English 2000	3
Foreign language courses	8-6
Mathematics 1431	3
General education life or physical sciences (one semester lecture in alternate science)**	3
Approved history elective	3
Approved literature courses	6
Experimental statistics 2201	4
	33-31

JUNIOR YEAR	SEM. HRS.
Economics 4710, 4720	6
Approved economics electives	3
General education arts course	3
General education humanities course (other than English or foreign language) ..	3
General education social sciences course	3
Approved electives	11
Approved social sciences course (other than history or economics)	3
	32

SENIOR YEAR	SEM. HRS.
Approved economics electives	12
General education humanities course	3
Approved social sciences courses (6 hrs. in two fields other than history or economics)	6
Approved electives	11
	32

Area of Concentration

◆ Empirical Economic Analysis

Required (9 hrs.): ECON 4540, 4630, 4632.

DEPARTMENT OF ENGLISH

OFFICE • 260 Allen Hall
TELEPHONE • 225-578-4086
FAX • 225-578-4129
WEB SITE • www.english.lsu.edu

Students *minoring in English* must complete 18 semester hours of English courses in addition to freshman English. Minimum requirements are six hours of 2000-level English courses, excluding ENGL 2000; six hours from ENGL 3020, 3022, 3070, 3072, 3300, 3301, 3310, 3024; and six additional hours of English courses numbered 3000 or above. A special curriculum leading to the BA degree with departmental honors in English is also offered. Details are available from the departmental office.

Undergraduates expecting to do graduate work should plan to take the Graduate Record Examination during the fall semester preceding their graduation. Graduate students should consult the section titled "Department of English" in the *Graduate Bulletin*.

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and foreign language requirements. Consult "General Education" section of the catalog for the general education requirements.

CURRICULUM IN ENGLISH

TOTAL SEM. HRS. • 120

Students majoring in English must complete, with at least a 2.00 average, a total of 36 semester hours in the subject, 15 of which must be in courses numbered 3000 or above.

*If the two-course sequence is taken in the physical sciences, then the three-hour course must be taken from the life sciences and vice versa.

FRESHMAN YEAR	SEM. HRS.
Area of concentration requirements	3
English 1001	3
General education humanities course (other than English or foreign language)	3
General education analytical reasoning course (from Mathematics Dept)	3
Foreign language courses	8-10
General education natural science course sequence*	6
Approved electives (may be in area of concentration)	3
	—
	29-31
SOPHOMORE YEAR	SEM. HRS.
Area of concentration requirements	6
English 2000	3
Foreign language	8-6
General education natural science course*	3
General education arts course	3
Approved electives (may be in area of concentration or ROTC)	6
	—
	29-27
JUNIOR YEAR	SEM. HRS.
Area of concentration requirements	12
General education analytical reasoning course	3
General education social sciences courses (3 hrs. at 2000 level or above)	6
Approved electives (may be in area of concentration)	11
	—
	32
SENIOR YEAR	SEM. HRS.
Area of concentration requirements	15
Approved electives (may be in area of concentration)	15
	—
	30

Four areas of concentration are offered: creative writing, literature, secondary education, and writing and culture. Special requirements for each area are as follows:

Areas of Concentration

◆ Creative Writing

Six hours from ENGL 2025, 2027, 2029, 2123 (2823), 2148, 2201, 2202, 2220, 2270; nine hours from ENGL 3020, 3022, 3070, 3072; three hours from ENGL 4137, 4147, 4148; three hours from ENGL 2005, 2007, 2008, 2009; and six hours from ENGL 4000, 4001, 4005, 4006, 4007, 4008, 4009; three hours of upper division English electives; and either ENGL 4102 or 4105 or 4109.

◆ Literature

A maximum of nine hours at the 2000 level in addition to ENGL 2000; a minimum of six hours at the 4000 level; six hours from ENGL

2025, 2027, 2029, 2123 (2823), 2024 (2824), 2148, 2201, 2202, 2220, 2270, 2300; nine hours from 3020, 3022, 3070, 3072; three hours from ENGL 3024, 3084; three hours from ENGL 4137, 4147, 4148; three hours from 2593, 2673, 2674, 3080, 3674, 3593, 4674, 4593; nine hours of upper division English electives; and ENGL 4104

◆ Secondary Education

Six hours from ENGL 2024 (2824), 2025, 2027, 2029, 2123 (2823), 2148, 2300, 2593, 2673, 2674; three hours from ENGL 2710 or 2012; nine hours from 3020, 3022, 3070, 3072; three hours from ENGL 3015 or 3301; three hours from 3024, 3084, 3384; six hours from 3201, 3202, 4203, 4204; six additional hours of English courses at 4000-level; LING 4710 or 4711; EDCI 3223; EDCI 2001, 3001, 3136, 4003, 4004, 4005

◆ Writing and Culture

ENGL 2300; three hours from ENGL 2025, 2027, 2029, 2123 (2823), 2148, 2201, 2202, 2220, 2270; three hours from ENGL 2012, 2024 (2824), 2423, 2710; three hours from ENGL 3020, 3022, 3070, 3072; six hours from ENGL 3300, 3301, 3310, 3401, 3716, 3720, 4710, 3024 or 3084 or 3384; six hours from ENGL 4300, 4301, 4302, 4310, 4475, 4493, 4716, 4711 or 4712, 4713 or 4715; nine hours of upper division English electives; and ENGL 4304

DEPARTMENT OF FOREIGN LANGUAGES & LITERATURES

OFFICE • 316B Hodges Hall
TELEPHONE • 225-578-6616
FAX • 225-578-5074
WEB SITE • www.artsci.lsu.edu/forlang

To graduate with an undergraduate minor in Chinese, students must complete 20 semester hours above CHIN 1102, including CHIN 2001, 2002, 3101, 3102, and six hours of approved electives. A list of approved electives is available in the Department of Foreign Languages and Literatures.

A minor in German consists of a total of 22 hours, six of which must be numbered 3000 or above. A minor in Russian consists of a total of 22 hours, six of which must be numbered 3000 or above. Those courses specifically designated as being offered in translation cannot be counted as fulfilling part of the minor requirement in Russian. Persons whose native language is German may not take for credit courses 1101, 1102, 2101, 2102, or 2155 in that language. Persons whose native language is Russian may not take for credit courses 1001, 1002, 2001, or 2002.

To obtain a minor in Latin or Greek, a student must have a minimum of 16 hours of instruction in that language at the 2000 level and above. At least six hours must be taken at the 3000 level or above.

A minor in Italian will consist of 15 hours of course work above ITAL 1002, including ITAL 2101, 2102, 2155, and six hours of 3000-4000 level courses.

To obtain a minor in Classical Civilization, a student must have a minimum of 16 hours of approved courses, of which no more than six hours may be taken outside the department. At least six hours must be at the

3000 level or above. Any course in Latin or Greek language may count toward the minor, as may any Classical Studies course except CLST 2092. At least nine hours must come from classical studies courses. A list of courses outside the department which may count toward the minor is available in the departmental office.

Beginning and intermediate Spanish are taken in the following sequence: 1101, 1102, 2101, and 2102. Students who have taken high school Spanish will be placed according to the number of years they studied Spanish. Students who have fluency in Spanish may not take courses numbered below 3000.

Requirements for a Spanish minor are completion of 18 semester hours above Spanish 2102, including Spanish 2155, 2156, 3010, and nine hours of courses at the 3000-4000 level. Native speakers minoring in Spanish must substitute any 3000- or 4000-level Spanish elective for 2155 and 2156.

CURRICULUM IN GERMAN

TOTAL SEM. HRS. • 120

Students majoring in German must complete a minimum of 35 hours of German including GERM 1101, 1102, 2101, 2102, 2155, and 3061, and at least 15 hours of German electives, at least six of which must be at the 4000-level.

*If sequence is taken in life sciences, then alternate science must be taken in the physical sciences and vice versa.

**One of the general education humanities courses must be from history, and two must be from literature.

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives. Consult "General Education" section of the catalog for the general education requirements.

FRESHMAN YEAR	SEM. HRS.
English 1001	3
German 1101, 1102	8
General education analytical reasoning course (from mathematics dept)	3
General education natural science course sequence*	6
General education humanities course**	3
Approved electives or ROTC	7
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	30
SOPHOMORE YEAR	SEM. HRS.
English 2000	3
German 2101, 2102	6
General education arts course	3
General education natural science course*	3
Approved history course	3
Approved electives or ROTC	12
	—
	30
JUNIOR YEAR	SEM. HRS.
German 2155, 3061	6
General education analytical reasoning course	3
General education social science course	3
General education humanities course**	3
Approved German electives	6
Approved electives	9
	—
	30

SENIOR YEAR	SEM. HRS.
Approved German electives	9
General education humanities course**	3
General education social science course (2000-level or above).....	3
Approved electives.....	15
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CURRICULUM IN LATIN

TOTAL SEM. HRS. • 120

Students majoring in Latin must complete a minimum of 32 hours of Latin courses, with at least six hours at or above the 3000-level. In addition, at least one semester of ancient Greek must be completed. Students may substitute one additional semester of ancient Greek for hours in Latin. Students electing this major are advised to take HIST 2001 and 2002 or HIST 4001, 4003, and 4004. Courses in ancient art and philosophy are recommended.

**If sequence is taken in life sciences, then alternate science should be in the physical sciences category and vice versa.*

****One of the general education humanities course must be from history. Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives. Consult "General Education" section of the catalog for the general education requirements.**

FRESHMAN YEAR	SEM. HRS.
English 1001	3
Latin 1001, 2051	8
General education analytical reasoning course (from mathematics dept).....	3
General education natural science course sequence*	6
General education arts course.....	3
General education humanities course**	3
Approved electives or ROTC.....	4
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SOPHOMORE YEAR	SEM. HRS.
English 2000	3
Latin 2053 and one 2000-level Latin course .	6
Ancient Greek elective	4
General education humanities course**	3
General education natural science course*.....	3
General education analytical reasoning course.....	3
Approved electives or ROTC.....	8
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JUNIOR YEAR	SEM. HRS.
Latin 2000 and/or 4000-level courses	12
General education social science course.....	3
General education humanities course**	3
Approved electives	12
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SENIOR YEAR	SEM. HRS.
Latin 4000 level courses.....	6
General education social science course (2000 level or above)	3
Approved electives.....	21
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CURRICULUM IN SPANISH

TOTAL SEM. HRS. • 120

Students majoring in Spanish must receive credit for a minimum of 33 hours in Spanish numbered above SPAN 2102, including SPAN 2155, 2156, 3010, 3020, 4005 and any four of the following eight: 3043, 3044, 3070, 3071, 3072, 3073, 3074, or 3980 and at least six hours of 4000-level courses.

Native speakers majoring in Spanish must substitute any 3000- or 4000-level Spanish elective for 2155 and 2156.

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives. Consult "General Education" section of the catalog for the general education requirements.

**If sequence is taken in life sciences, then alternate science should be in the physical sciences category and vice versa.*

FRESHMAN YEAR	SEM. HRS.
English 1001.....	3
Spanish 1101, 1102.....	8
General education analytical reasoning course (from mathematics dept)	3
General education natural science course sequence*	6
General education humanities courses	6
Approved electives or ROTC	4
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SOPHOMORE YEAR	SEM. HRS.
English 2000.....	3
Spanish 2101, 2102.....	6
General education natural science course* ...	3
General education analytical reasoning course	3
General education arts course.....	3
General education social science courses (3 hrs. at 2000 level or above)	6
Approved electives or ROTC	6
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JUNIOR YEAR	SEM. HRS.
Spanish 2155, 2156, 3010, 3020	12
Spanish 3043, 3044, 3070, 3071, 3072, 3073, 3074, 3980 (select four).....	12
General education humanities course.....	3
Approved electives	3
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SENIOR YEAR	SEM. HRS.
Spanish 4005	3
Spanish 4000-level electives or area requirements	6
Approved electives or area requirements	21
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Area of Concentration

◆ **Secondary Education**

Required courses (36 hrs.): EDCI 2001, 3001, 3136, 4003, 4004, 4005; SPAN 3001, 3002, 4003, 4004, 4602, 4603

DEPARTMENT OF FRENCH STUDIES

OFFICE • 416B Hodges Hall
 TELEPHONE • 225-578-6627
 FAX • 225-578-6628
 WEB SITE • www.artsci.lsu.edu/fai
 E-MAIL • lsfuren@lsu.edu

A minor in French will consist of 15 hours of course work: FREN 2154/2254, 2155, 3060 and six hours of 3000-4000-level courses.

A special curriculum leading to the BA degree with departmental honors in French is offered. Details are available from the departmental office.

CURRICULUM IN FRENCH

TOTAL SEM. HRS. • 120

For a major in French, students must complete a minimum of 36 semester hours in French courses numbered above 2000 with at least a 2.00 gpa. Students may select an area of concentration; additional requirements may exist for certain areas of concentration.

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding requirements, electives and foreign language requirements. Consult "General Education" section of the catalog for the general education requirements.

FRESHMAN YEAR	SEM. HRS.
English 1001	3
French 1001, 1002 or 1201, 1202.....	8
General education analytical reasoning course (from Mathematics department)	3
General education natural science course sequence.....	6
Approved history elective.....	3
Approved humanities elective (other than English or foreign language)	3
Approved electives or ROTC and/or area requirements	5
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	31

SOPHOMORE YEAR	SEM. HRS.
English 2000	3
French 2101, 2102 or 2201, 2202.....	6
General education natural science course ²	3
General education analytical reasoning course ³	3
General education arts course.....	3
Approved history elective.....	3
Approved electives or ROTC or area requirements	9
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	30

JUNIOR YEAR	SEM. HRS.
French 2155, 3058, 3060, 3071, 3072	15
General education social sciences courses (two fields other than history; three hours at 2000-level or above).....	6
Approved electives and/or area requirements.....	9
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	30

SENIOR YEAR	SEM. HRS.
French 3080, 4003 or 4404 ⁴	6
French 3000/4000 electives and/or area requirements.....	9
Approved social sciences elective	3

Approved electives and/or area requirements	11
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	29

¹Students selecting the area of concentration in International Business must complete MATH 1021. Other students may complete MATH 1021 or 1029.

²If sequence is taken in life sciences, then alternate science should be in the physical sciences category and vice versa.

³Students selecting the area of concentration in International Business must complete MATH 1431.

⁴Students selecting the area of concentration in Secondary Education must complete FREN 4404.

Areas of Concentration

◆ French and Francophone Cultural Studies

Required courses (24 hrs.): Complete three courses selected from the following: FREN 3090, 3280, 4000, 4001, 4005, 4014, 4015, 4016, 4031, 4041, 4050, 4051, 4060, 4064, 4065, 4070, 4080, 4100, 4915; complete three courses selected from the following: ANTH 4051, 4053, 4064, 4470, ARTH 4450 or 4451, GEOG 4055, POLI 4068, 4074, 4078; complete two courses selected from the following: HIST 4015, 4021, 4022, 4112, 4113, 4130. Upon approval of the department, other courses relevant to French and Francophone cultural studies may be accepted for this concentration.

◆ French and Francophone Political Studies

Required courses (27 hrs.): Complete three courses from the following: FREN 3090, 3280, 4000, 4001, 4005, 4014, 4015, 4016, 4031, 4041, 4050, 4051, 4060, 4064, 4065, 4070, 4080, 4100, 4915; complete POLI 2053 and 2057; complete four courses selected from the following: POLI 4040, 4041, 4042, 4044, 4060, 4068, 4074, 4078. Upon approval of the department, other courses relevant to French and Francophone political studies may be accepted for this concentration.

◆ International Business

Required courses (36-39 hrs.): Complete FREN 4051 and two courses selected from the following: FREN 3090, 3280, 4000, 4001, 4005, 4014, 4015, 4016, 4031, 4041, 4050, 4060, 4064, 4065, 4070, 4080, 4100, 4915; complete: ACCT 2001, 2101, ECON 2000 and 2010 or 2030 or 2031, FIN 3715, ISDS 1100, MKT 3401; complete two courses from the following: ECON 2035, 4040, FIN 3718, MGT 4420, MKT 4443; complete a business or professional internship in a Francophone context for 3 sem. hrs. (ACCT 4231, ECON 4445, MGT 3280, MKT 4445, or other internships). Internship requires permission of the department. Upon approval of the department, other courses relevant to international business may be accepted for this concentration.

◆ International Studies

Required courses (24 hrs.): Complete three courses selected from the following: FREN 3090, 3280, 4000, 4001, 4005, 4014, 4015, 4016, 4031, 4041, 4050, 4051, 4060, 4064, 4065, 4070, 4080, 4100, 4915; complete ANTH 1001, INTL 2001; complete three courses selected from the following: ANTH 4051, 4053, 4064, 4470; ARTH 4450 or 4451; GEOG 4055; POLI 4068, 4074, 4078; HIST 4015, 4021, 4022, 4112, 4113, 4130. Upon approval of the department, other courses relevant to international studies may be accepted for this concentration.

◆ Literary Studies

Required courses (18 hrs.): Complete three courses selected from the following: FREN 3090, 4000, 4004, 4010, 4020, 4030, 4040, 4050, 4060, 4070, 4090, 4095, 4100, 4915; complete three courses selected from the following: ANTH 4051, 4053, 4064, 4470; ARTH 4450 or 4451; GEOG 4055, HIST 4015, 4021, 4022, 4112, 4113, 4130; POLI 4068, 4074, 4078. Upon approval of the department, other courses relevant to literary studies may be accepted for this concentration.

◆ Secondary Education

Required courses (33 hrs.): FREN 3401, 3402, 4403, 4014, 4016; EDCI 2001, 3001, 3002, 4003, 4004, 4005

GENERAL STUDIES

OFFICE • 155 Hodges Hall
TELEPHONE • 225-578-3141
FAX • 225-578-6447

The Bachelor of General Studies degree program is for the student whose professional goals and educational objectives are optimally satisfied by a focused curriculum of interdisciplinary studies.

The five areas of concentration in the Bachelor of General Studies (health sciences, studies in organizations, leadership and society, writing and performing arts, and interdisciplinary studies) link three undergraduate minors to create a thematic interdisciplinary major. All requirements for each undergraduate minor must be satisfied. (The requirements are listed in the *LSU General Catalog*.)

CURRICULUM IN GENERAL STUDIES

TOTAL SEM. HRS. • 120

To obtain a Bachelor of General Studies degree, a student must satisfy the following requirements.

Areas of Concentration

◆ Health Sciences

Undergraduate minors in biological sciences, psychology, and sports studies.

This concentration provides useful background for students interested in physical and mental health care careers.

◆ Studies in Organizations

Undergraduate minors in business administration, communication studies, and sociology.

This concentration is relevant for students interested in careers in government and industry where strong communication and organizational skills are valued.

◆ Leadership and Society

Undergraduate minors in history, leadership development, and political science.

This concentration provides background relevant for careers in governmental, legal, and social organizations.

◆ Writing and Performing Arts

Undergraduate minors in English, Film and Media Arts, and Theatre.

This concentration is useful for students who are planning careers in the arts and entertainment industry, including screenwriting and performance.

◆ Interdisciplinary Studies

Three undergraduate minors, as approved by the Director of the General Studies Program.

This concentration allows students to craft a cohesive set of three minors aimed at preparing them for their individual career goals.

Specific Requirements

- Complete all requirements for one of the areas of concentration: *health sciences, studies in organizations, leadership and society, writing and performing arts, or interdisciplinary studies*.
- Complete all general education requirements.
- Complete elective courses to reach 120 hours.
- A student must earn three hours in computer science, in EXST 2000, ISDS 1100, or LIS 2001, or a foreign language.
- Complete UNST 3900, a capstone course for seniors majoring in general studies currently enrolled in the College of Arts & Sciences.

General Requirements

- No more than 24 hours in any one subject may be used toward this degree, unless minor area requirements dictate otherwise.
- No more than 30 hours of correspondence credit may be used towards this degree.
- No more than eight hours of kinesiology activity courses may be used towards this degree.
- No more than 12 hours of ROTC credit may be used towards this degree.
- At least 45 hours of credit at or above the 3000-level must be completed; of the 45 hours, at least 15 must be at the 4000 level.
- At least a 2.00 gpa on all work taken in the LSU system.
- At least a 2.00 gpa on all work taken.
- At least a 2.00 gpa in all minors.

- Enrollment in internships, independent study, and research courses must have prior dean's approval.
- Students are required to complete coursework from at least three different departments in both the humanities and social sciences areas.

DEPARTMENT OF GEOGRAPHY & ANTHROPOLOGY

OFFICE • 227 Howe-Russell Geoscience Complex
TELEPHONE • 225-578-5942
FAX • 225-578-4420
WEB SITE • www.ga.lsu.edu
E-MAIL • gachair@lsu.edu

Geography

Students majoring in geography may earn either the Bachelor of Arts or Bachelor of Science degree. Students interested in physical geography normally enter the Bachelor of Science program, and those interested in human geography enter the Bachelor of Arts program.

All requirements specified by the College of Arts & Sciences for these respective degrees must be fulfilled. Candidates for the bachelor's degree with a major in geography must complete a curriculum of 33 semester hours for the Bachelor of Arts and 36 semester hours for the Bachelor of Science. Both consist of 15 hours of core courses (Geography 1001, 1003, 2050, 2051, and 2055). For the Bachelor of Arts, nine hours of mapping sciences and nine hours in human geography (six hours systematic and three hours regional) are required, or for the Bachelor of Science, nine to 12 hours of mapping sciences and nine to 12 hours of physical geography are required. (See the section "Curriculum in Geography".)

Students may elect to modify the curriculum to fit specific needs, but this must be done in consultation with the departmental advisor. Special emphases are offered in mapping sciences, cultural and historical geography, economic and urban geography, Latin America, Asia, coastal and fluvial geomorphology, and climatology.

Students majoring in geography must pay a field service fee of \$20 per semester for undergraduates and \$25 per semester for graduates. Students not majoring in geography or anthropology who schedule courses requiring field service will be assessed a pro rata part of the transportation costs, as determined by the department chair.

Requirements for a *minor in geography* are one course selected from Geography 1001 or 1003; Geography 2050 and 2051; one course selected from Geography 2039, 4020, 4041, 4043, and 4045; and two additional 4000-level geography courses.

Geography 4999 is an honors course.

CURRICULUM IN GEOGRAPHY (BA DEGREE)

TOTAL SEM. HRS. • 120

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education natural sciences, literature, mathematics, and social sciences requirements.

**If sequence is taken in life sciences, then alternate science should be in the physical sciences category and vice versa.*

FRESHMAN YEAR	SEM.	HRS.
English 1001		3
Foreign language courses.....	8-10	
Geography 1001, 1003.....		6
General education analytical reasoning course (from the mathematics department).....		3
General education natural science sequence.....		6
General education humanities course (other than foreign language).....		3
		—
		29-31

SOPHOMORE YEAR	SEM.	HRS.
English 2000.....		3
Foreign language courses.....	8-6	
Geography 2050, 2051, 2055.....		9
Geography 2010		3
General education natural science course* ...		3
General education analytical reasoning course		3
Approved elective or ROTC		3
		—
		32-30

JUNIOR YEAR	SEM.	HRS.
Geography 2039, 4019, 4020, 4041, 4044, 4045, 4047 (select one).....		3
General education arts course		3
Anthropology 4051, Geography 3001, 4000, 4002, 4031, 4035, 4050, 4052, 4055 or other approved regional course (select one)		3
Upper-division geography elective		3
General education humanities course (other than foreign language).....		3
Approved electives		14
		—
		29

SENIOR YEAR	SEM.	HRS.
Geography 4012, 4060, 4073, 4077, 4078, 4080, 4087, 4090 or other approved systematic geography course (select two)		6
General education humanities course (other than foreign language).....		3
General education social sciences courses (three hours must be 2000-level or above).....		6
Approved electives		15
		—
		30

CURRICULUM IN GEOGRAPHY (BS DEGREE)

TOTAL SEM. HRS. • 120

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education natural sciences, literature, mathematics, and social sciences requirements.

**If sequence is taken in life sciences, then alternate science should be in the physical sciences category and vice versa.*

FRESHMAN YEAR	SEM.	HRS.
English 1001		3
Foreign language courses.....	8-10	
Geography 1001, 1003.....		6
Mathematics 1021		3
General education natural science sequence		6

General education humanities course (other than English or foreign language).....	3
	—
	29-31

SOPHOMORE YEAR	SEM.	HRS.
English 2000		3
Foreign language courses	8-6	
Geography 2050, 2051, 2055		9
Mathematics 1022, 1550		8
Computer Science 1253 or 1250		3
General education natural science course**		3
		—
		34-32

JUNIOR YEAR	SEM.	HRS.
Geography 2039, 4019, 4020, 4041, 4044, 4045, 4047, 4048 (select three or four)**		9-12
Experimental Statistics 2201		4
General education arts course.....		3
General education humanities course (other than foreign language)		3
Science elective (3000+ level other than Geography)		3
Approved electives		6
		—
		28-31

SENIOR YEAR	SEM.	HRS.
Geography 4013, 4014, 4015, 4016, 4017, 4018, 4021, 4022, 4024, 4028, 4029, 4070, 4082, 4083, 4085 (select three or four).....		12-9
General education social science courses (other than Geography, 3 hours must be 2000-level or above).....		6
General education humanities course (other than foreign language)		3
Approved electives		8
		—
		29-26

***Students emphasizing mapping sciences should select 12 hours from the junior year geography courses and nine hours from the senior year geography courses. Students emphasizing physical geography should select nine hours from the junior year geography courses and 12 hours from the senior-year geography courses.*

Anthropology

A Bachelor of Arts is offered in anthropology. Because it is a broad study of mankind, students majoring in anthropology are urged to take courses in the sciences, the social sciences, and the humanities.

Departmental course requirements are few. Students must complete Anthropology 1001 and 1003 and at least three courses from the following: Anthropology 2015, 2051, 3060, 4040. Course 2055, 2154, or 2155 in a foreign language must also be completed. A minimum of 24 semester hours in anthropology is required. Courses in archaeology, cultural anthropology, folklore, physical anthropology, and anthropological linguistics are available.

Through consultation with their departmental counselor, students design a specific program to fit their needs.

Because anthropology is a field science, students participate in numerous field trips. To help defray expenses, a field service fee of \$20 per semester is charged to undergraduate

majors and \$25 per semester for graduate majors. Nonmajors participating in field trip courses will be assessed a fee on a pro rata basis.

Requirements for a *minor in anthropology* are Anthropology 1001, 1003, and nine hours to be taken from the following three groups with no more than six hours total from any one group: *Group 1 (method and laboratory)*— Anthropology 2016, 3401, 4006, 4010, 4020, 4021, 4083, 4090; *Group 2 (area)*—Anthropology 2050, 3004, 3015, 4003, 4004, 4015, 4016, 4017, 4023, 4050, 4051, 4053, 4470, 4475; and *Group 3 (topical)*—Anthropology 2015, 2051, 2423, 3060, 4018, 4031, 4040, 4060, 4064, 4074, 4081, 4082, 4085, 4086, 4440. In addition, Anthropology 3909, 4909, 4998, and 4999 may be included in the nine hours. Placement of these courses in the above groups depends on the topic and must be determined by the department on a case-by-case basis.

CURRICULUM IN ANTHROPOLOGY

TOTAL SEM. HRS. • 120

Students majoring in anthropology should request the pamphlet entitled "Undergraduate Program in Anthropology" from the departmental office or from their faculty advisor. Nine semester hours of approved anthropology electives in the sophomore and junior years must be chosen from Anthropology 2015, 2051, 3060, and 4040.

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education life and physical sciences, literature, mathematics, and social sciences requirements.

***If freshman sequence is in life sciences, sophomore science should be a physical science and vice versa.*

FRESHMAN YEAR	SEM. HRS.
Anthropology 1001, 1003	6
English 1001	3
Foreign language	8-10
Mathematics 1021 or 1029.....	3
Approved history elective	3
General education biological or physical sciences (6 sem. hrs. lecture with 2 sem. hrs. of lab).....	8
	—
	31-33

SOPHOMORE YEAR	SEM. HRS.
English 2000	3
Foreign language.....	8-6
General education biological or physical sciences**	3
General education analytical reasoning course	3
Approved anthropology electives.....	3
Approved literature courses	6
Approved electives or ROTC.....	3
	—
	29-27

JUNIOR YEAR	SEM. HRS.
Approved anthropology electives.....	6
General education arts course	3
General education humanities course.....	3
Approved social sciences courses (at least 3 sem. hrs. in fields other than anthropology or history)	9
Approved history course	3

Approved electives	6
	—
	30
SENIOR YEAR	SEM. HRS.
Approved anthropology electives	9
General education humanities course (other than English or foreign language) ..	3
General education social sciences electives ...	9
Approved electives	9
	—
	30

DEPARTMENT OF HISTORY

OFFICE • 224 Himes Hall
 TELEPHONE • 225-578-4471
 FAX • 225-578-4909
 WEB SITE • www.artsci.lsu.edu/hist

A *minor in history* requires a total of at least 18 hours, including any two-semester six-hour course sequence at the 1000- or 2000- level; three courses at the 3000- or 4000-level; and one additional three-hour course in history. A special curriculum leading to the BA degree with departmental honors in history is also offered. Details are available from the departmental office.

The department offers programs of study leading to the MA and PhD degrees.

CURRICULUM IN HISTORY

TOTAL SEM. HRS. • 120

Students majoring in history must complete 33 semester hours, including History 1001 or 1005, 1003 or 1007, 2055, 2057, and at least 15 semester hours in history courses 3000 or above. No more than 12 of the 15 may be taken in any one of the following general subject areas: U.S. History, European History, and non-Western Developing Nations History (Latin America, East Asia, South Asia, Africa, and the Middle East). The remaining six hours of history courses must be taken at the 2000-level or above. Students majoring in history must also complete six semester hours of approved literature courses unless they are following the concentration in Secondary Education. Fundamental courses in economics, geography, political science, psychology, and sociology are also recommended.

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding approved electives and foreign language requirements. Consult "General Education" section of the catalog for the general education requirements.

**If a two-course natural science sequence is taken in the physical sciences, the three-hour natural science course must be from the life sciences, and vice versa.*

FRESHMAN YEAR	SEM. HRS.
English 1001	3
Foreign language courses	8-10
History 1001 or 1005 and 1003 or 1007.....	6
General educational analytical reasoning course (from mathematics department) ...	3
General education natural science sequence ..	6
General education arts course.....	3
	—
	29-31

SOPHOMORE YEAR	SEM. HRS.
Foreign language courses	8-6
History 2055, 2057	6

General education analytical reasoning course.....	3
General education natural science course*....	3
English 2000	3
Approved literature courses	6
Approved electives or ROTC.....	3
	—
	32-30

JUNIOR YEAR	SEM. HRS.
Approved history electives.....	9
General education humanities course	3
General education social science course other than history	3
General education social science course other than history (2000 level or above)...	3
Approved electives.....	12
	—
	30

SENIOR YEAR	SEM. HRS.
Approved history electives.....	12
Approved electives.....	17
	—
	29

Area of Concentration

◆ Secondary Education

Curriculum in the Secondary Education Concentration in History

**If a two-course natural science sequence is taken in the physical sciences, the three-hour natural science course must be from the life sciences, and vice versa.*

FRESHMAN YEAR	SEM. HRS.
English 1001	3
Foreign language courses	8-10
History 1001 or 1005 and 1003 or 1007	6
General education analytical reasoning course (from mathematics department)....	3
General education natural science sequence..	6
General education arts course.....	3
	—
	29-31

SOPHOMORE YEAR	SEM. HRS.
Foreign language courses	8-6
History 2055, 2057.....	6
General education analytical reasoning course.....	3
General education natural science course*....	3
English 2000	3
Area requirements	6
EDCI 2001	3
	—
	32-30

JUNIOR YEAR	SEM. HRS.
Approved history electives.....	12
EDCI 3001, 3002	6
History 3001, 3002.....	2
Area requirements.....	12
	—
	32

SENIOR YEAR	SEM. HRS.
EDCI 4003	3
EDCI 4004	3
EDCI 4005	9
History 4403	1
History 4404	3
History elective	3
Area requirement.....	3
Approved electives.....	2
	—
	27

Area requirements I: complete 12 hrs. in one of the following: 1) ECON 2000, 2010, 2035,

and 4010 or 4020 or 4400 or 4720; or 2) 3 hrs. from GEOG 1001, 1003, ANTH 1003; 3 hrs. GEOG 2050, 2051; 3 hrs. from GEOG 4031, 4050, 4052, 4055, ANTH 4023, 4053; 3 hrs. from GEOG 4012, 4060, 4073, 4077; or 3) POLI 2051, 2056; and 6 hrs. from other POLI courses, one of which must be at the 3000-level or above.

Area requirements II: Complete 9 hrs. in one of the fields not chosen for Area Requirements I: 1) ECON 2000, 2010, 2035; or 2) 3 hrs. from GEOG 1001, 1003, ANTH 1003; 3 hrs. from GEOG 2050, 2051; 3 hrs. from GEOG 4031, 4052, 4055, ANTH 4023, 4053; or 3) POLI 2051, 2056, and 3 hrs. of POLI courses at 3000-level or above.

INTERNATIONAL STUDIES (INTERDEPARTMENTAL PROGRAM)

OFFICE • 153 Howe-Russell
 TELEPHONE • 225-578-7242
 WEB SITE • <http://www.lsu.edu/international>

The International Studies (I.S.) Program offers an interdisciplinary major intended to prepare students for careers in the global arena. An undergraduate minor in international studies is also available. See the section "Minor Field Requirements" in this chapter.

The degree is designed to equip graduates with critical skills, flexible thinking, and a cosmopolitan view of world issues, to enable them to work comfortably across linguistic, cultural, and disciplinary borders. To achieve this, the curriculum cuts across traditional departmental divisions, combining insights from different disciplines around a common regional or global concentration. Students are helped to undertake internships, encouraged to study abroad, and recommended to combine the I. S. major with a minor in a second field such as business, mass communication, political science, or engineering. International Studies majors are strongly encouraged to enroll in a study abroad program which can be arranged through the LSU Office of Academic Program Abroad.

Considerable freedom is allowed in shaping the degree requirements to suit individual geographical and topical interests. However, the precise selection and sequencing of course work should be planned well in advance, as soon as the major is declared, in consultation with the associate director.

The curriculum comprises the following five elements, which students must complete in the required sequence. For additional requirements for general education courses and approved electives, see "Degree Requirements for the College":

- *Core Curriculum (15 hrs.)*—During the freshman and sophomore years, prospective majors must complete the preparatory, multidisciplinary core curriculum by taking one course from each of the following five disciplines: ANTH 1003 or 2051, ECON 2030 or 2031, GEOG 1001 or 1003, HIST 1007, POLI 2057. These are the prerequisites for the gateway course.
- *Gateway Course (3 hrs.)*—All majors must complete the junior-level, interdisciplinary gateway course, INTL 3001. This is a

prerequisite for the senior-level capstone seminar.

- *Area of Concentration (21 hrs.)*—Courses for the area of concentration should ideally be taken during the junior and senior years, and most of the requirements must be completed before admission to the senior capstone seminar. Students may choose from 10 concentrations, which have either a regional or global focus. (See details below)
- *Foreign Language (hrs. vary)*—Students must demonstrate competency (defined below for each region) in a language relevant to their regional area of concentration.
- *Senior Capstone Course (3 hrs.)*—The senior capstone seminar (INTL 4003) is intended primarily for graduating I. S. majors in their final semester. Prerequisites are INTL 3001 and nine hrs. of additional upper-level courses in area of concentration, all of which must be completed before admission to the seminar.

The *minor in international studies* in the College of Arts & Sciences is designed to provide students with a perspective on issues of global consequence, and permit them to focus on a region that is of particular significance. All students seeking a *minor in international studies* must complete the following four requirements: 1) interdisciplinary core; 2) global concentration; 3) regional concentration; and 4) relevant foreign language.

To graduate with a *minor in international studies*, students must complete 21 hours of course work and demonstrate second-year competency in a foreign language relevant to their regional concentration as follows:

- 1) Interdisciplinary core (9 hrs.)—Nine hrs. chosen from: ANTH 1003 or 2051; ECON 2030; GEOG 1001 or 1003; HIST 1003 or 1007; POLI 2057; REL 2027 or 2029; SOCL 2001; WGS 2900
- 2) Global Concentrations (6 hrs.):
 - *Global Studies*—Six hrs. chosen from two different departments: ECON 4520, 4550; ENVS 4010; FIN 3718; INTL 4100; MC 4103, POLI 4041, 4042, 4045, 4064; REL 3101, 3300, 4032; REL/INTL 3092; SOCL 3101, 4111, 4311, 4341, 4421, 4481, 4521, 4551, 4631, 4701
 - *Global Diplomacy*—Six hrs. chosen from two different departments: ECON 4520, 4550, 4560; HIST 2023, 4028, 4049, 4063, 4064, 4066, 4130, 4140; INTL 4010; POLI 4037, 4041, 4042, 4043, 4044, 4046, 4048, 4049, 4063, 4064, 4074

- *Environment and Development*—GEOG 4078 and three hrs. chosen from ECON 4050, 4320, 4325; EMS 1011, 3040; ENVS 4261; GEOG 4012, 4020, 4070, 4080, 4086; OCS 4465, 4550; POLI 4049, 4064; RNR 4023, 4030, 4039, 4055, 4107; SOCL 4341, 4551, 4711
- *Colonialism and Diasporas*—INTL 4100 and three hrs. chosen from: ANTH 4002, 4018, 4023, 4051, 4053, 4064, 4470; ENGL 3674, 4220; FREN 3090, 3280, 4070, 4080, 4090; HIST 4051, 4052, 4078, 4081, 4140, 4200; POLI 4061, 4078; REL 3101, 3092; SPAN 4144, 4145, 4146, 4147

- 3) Regional Concentrations (6 hrs. plus foreign language courses): Six hrs. chosen from one of the following five regional concentrations and second year competence in a relevant foreign language:
 - *Africa and Middle East*—SWAH 2004 or FREN 2102 or ARAB 2102 or equivalent

- and six hrs. chosen from two different departments: ANTH 4051, 4470, 4998; FREN 4070; HIST/REL 4095, 4096; POLI 4064, 4077, 4078; REL 3786; REL/INTL 3092; SOCL 4551; THTR/ENGL 4220
- *Asia*—JAPN 2002 or CHIN 2002 or equivalent and six hrs. chosen from two different departments: ARTH 4441, 4442, 4443, 4444; CHIN 3801, 3802; GEOG 4035; HIST 4078, 4091, 4092, 4093, 4094; HIST/REL 4191; INTL/ANTH/GEOG 4002 or REL 4001; POLI 4067; REL 4600, 4800
- *Europe*—FREN 2102 or GERM 2102 or ITAL 2102 or SPAN 2102 or equivalent and six hrs. chosen from two different departments: ARCH 3006; ARTH 4422, 4450, 4451; FREN 3071, 3072, 3080, 4040, 4050, 4051; GEOG 4055, 4072; GERM 3061, 3062, 3082, 4044, 4046; HIST 4016, 4017, 4022, 4023, 4026, 4030, 4032, 4047, 4112, 4130; ITAL 3001, 3058, 3072; MUS 4751, 4752; PHIL 3001, 3002, 4003; POLI 4072, 4074, 4075, 4076; SPAN 3073, 4063, 4064, 4081, 4082, 4201; THTR 3121, 3122
- *Latin America*—SPAN 2102 or equivalent and six hrs. chosen from two different departments: ANTH 4003, 4023; GEOG 4031; HIST 4081, 4083, 4089; POLI 4065; SPAN 3044, 3074, 4082 4146, 4147; THTR 4220
- *Russia and Central Asia*—RUSS 2002 or equivalent and six hrs. chosen from two different departments: ECON 4025/HIST 4126; HIST 4033, 4034, 4120; POLI 4070; RUSS 3071, 3072, 4030, 4061, 4081, 4082, 4101

For additional information, contact Dr. Leonard Ray, 153 Howe-Russell, 225-578-7242.

CURRICULUM IN INTERNATIONAL STUDIES

TOTAL SEM. HRS. • 120

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding approved electives and foreign language requirements. Consult "General Education" section of the catalog for the general education requirements.

*If sequence is taken in life sciences, the alternate course should be in the physical sciences category and vice versa.

FRESHMAN YEAR	SEM. HRS.
English 1001	3
Foreign language courses	8-10
International Studies core courses (selected from among ANTH 1003 or 2051, ECON 2030 or 2031, GEOG 1001 or 1003, HIST 1007, and POLI 2057) ...	9
General education analytical reasoning (from math department)	3
General education life or physical science courses (two semesters lecture sequence)*	6
	29-31
SOPHOMORE YEAR	SEM. HRS.
English 2000	3
International Studies core courses	6
Foreign language courses (third and fourth semesters)	8-6
General education analytical reasoning	3

General education life or physical science course (one semester lecture in alternate science)*	3
INTL 3001	3
General education humanities	3
Approved electives	3
	32-30

JUNIOR YEAR	SEM. HRS.
Foreign language course (fifth and sixth semester) or electives	6
General education arts course	3
International Studies area of concentration courses	9
Approved electives	12
	30

SENIOR YEAR	SEM. HRS.
International Studies area of concentration courses	12
INTL 4003	3

(Note: Required for all majors. Students must complete INTL 3001 and nine hours of additional upper level courses in their concentration before taking INTL 4003)

General education humanities course	3
Approved electives	11
	29

Areas of Concentration

All students majoring in international studies must complete 15 hours in a primary area of concentration, and six hours in a secondary area of concentration. At least nine hours in the primary concentration must be taken at the 3000 level or above. At least three hours in the secondary concentration must be taken at the 3000 level or above.

Areas of concentration in International Studies are classified as either regional or global. The regional areas of concentration are *Africa, Middle East, Asia, Europe, Latin America, or Russian and Central Asia*. The global areas of concentration are *Global Studies, Global Diplomacy, Environment and Development, or Colonialism and Diasporas*. Students must select one regional and one global area of concentration. Thus if a regional area of concentration is chosen as the primary area of concentration, then the secondary area of concentration must be a global area, and vice versa.

Students must meet language competency standards in a language appropriate to their regional area of concentration. (See below)

Note: The following course listings are not exhaustive. Special topics classes are not included, but, if relevant, may be counted towards a concentration by arrangement with the Associate Director. As many of the listed courses are offered either infrequently or on alternate years, students are advised that they should check availability with departments and plan their course work schedule well in advance.

Regional Areas of Concentration

Students must complete 15 hrs. for a primary area of concentration or six hrs. for the secondary area of concentration in one of the following regional areas.

◆ Africa (15 or 6 hrs.)

AAAS 2050, 3120, 3122; ANTH 4051, 4470; FREN 4070; HIST 4084, 4085, INTL 3991, POLI 4064, 4078; SOCL 4551; THTR/ ENGL 4220; language component: FREN, PORT, ARAB, or SWAH (see next column)

◆ Asia (15 or 6 hrs.)

ARTH 2411, 4441, 4442, 4443, 4444; CHIN 2070, 3101, 3102, 3801, 3802, 4400; ECON 4530; GEOG 4000, 4035; HIST 2095, 2096, 4078, 4091, 4092, 4093, 4094, 4097, 4098; HIST/REL 4191; INTL 3993; INTL/ ANTH/GEOG 4002 or REL 4001; POLI 4067, 4079; REL 2027, 4098, 4600, 4800; language component: CHIN or JAPN (see next column)

◆ Europe (15 or 6 hrs.)

ARCH 3006; ARTH 4422, 4450, 4451; ENGL 3022, 4062; FREN 3071, 3072, 3080, 4031, 4040, 4050, 4051, 4081; GEOG 4055; GERM 2075, 3082, 3083, 3084, 3091, 4044, 4045, 4046, 4091; HIST 2021, 2022, 4016, 4017, 4022, 4023, 4026, 4028, 4029, 4030, 4032, 4046, 4047, 4048, 4049, 4112, 4113, 4130; INTL 3994; ITAL 3001, 3072; PHIL 3001, 3003, 3090, 4003, 4939; POLI 4072, 4074, 4075, 4076; SPAN 3073, 4063, 4064, 4081, 4201; language component: FREN, GERM, ITAL, PORT or SPAN (see list following the Note below)

◆ Latin America (15 or 6 hrs.)

AAAS/ENGL 4323, ANTH 4003, 4023; GEOG 4031; HIST 2085, 2086, 4081, 4083, 4087, 4089; INTL 3995; REL 4023; POLI 4065; SPAN 3043, 3044, 3074, 4082, 4144, 4145, 4146, 4147, 4201; language component: SPAN, PORT (see next column)

◆ Middle East (15 or 6 hrs.)

ARTH 2401; HIST/REL 4095, 4096; INTL 3992, 4033, 4051; POLI 4059, 4061; REL 2029, 3100, 3786; REL/INTL 3092; SOCL 4551; language component: ARAB (see next column)

◆ Russia and Central Asia (15 or 6 hrs.)

ECON 4025 or HIST 4126; HIST 2135 or RUSS 2075; INTL 3996, 4033; POLI 4070, 4072; RUSS 3071, 3072, 3073, 3074, 3501, 4030, 4031, 4061, 4081, 4082, 4101; language component: RUSS (see below)

Note: Students must demonstrate competency in a language relevant to their regional area of concentration. (Competency means: equivalent of six courses for Spanish, French, Italian, Chinese and German; equivalent of five courses for Russian; equivalent of four courses for Japanese, Portuguese, Swahili, or Arabic.)

Complete one of the following sequences:

SPAN 1101, 1102, 2101, 2102, 2155, and one from 2154, 2156, 3010, 3043, 3044, 3070, 3072, 3073, 3074, 3980, 4063, 4064, 4100, 4145, 4146, 4147, 4201, 4400;

FREN 1001, 1002, 2101, 2102, 2155, and 3058 or 3060 or 3071 or 3072 or 3080 or 4003 or 4031 or 4040 or 4050 or 4051 or 4070 or 4080 or 4090 or 4095 or 4100;

ITAL 1001, 1002, 2101, 2102, 2155, and 3058 or 3060 or 3071 or 3072 or 4051 or 4052 or 4053 or 4100;

GERM 1101, 1102, 2101, 2102, 2155, and 3060 or 3061 or 3082 or 3083 or 3084 or 4030 or 4031 or 4032 or 4043 or 4044 or 4045;

RUSS 1001, 1002, 2001, 2002, and 3061 or 3062 or 3071 or 3072 or 3073 or 3074 or 4030 or 4031 or 4061;

CHIN 1101, 1102, 2001, 2002, 3101, 3102;

ARAB 1101, 1102, 2101, 2102.

JAPN 1001, 1002, 2001, 2002;

PORT 1101, 1102, 2101, 2102;

SWAH 1001, 1002, 2003, 2004

Global Areas of Concentration

Students must complete 15 hrs. for a primary concentration or six hrs. (from different departments) for a secondary concentration in one of these global areas.

◆ Colonialism and Diasporas (6 or 15 hrs.)

AAAS 3024†, 3120, 4323, 4124; ANTH 4002, 4018, 4023, 4051, 4053, 4064, 4470; ENGL 2673†, 3674†, 3080, 4220, 4680; FREN 3090, 3280†, 4060, 4070, 4090; HIST 2023, 2061†, 4049, 4051†, 4052†, 4078†, 4081, 4140†, 4200†; INTL 4100; LING 4064; POLI 4061, 4078; REL 3101†, 3092, 4023, 4124; SOCL 4511†; SPAN 4144, 4145, 4146, 4147, 4200. Students in the Colonialism and Diasporas concentration are advised to choose courses from a wide variety of geographical regions. No more than six hrs. may relate to the U.S. exclusively (courses marked with †), and no more than three hrs. may be chosen from the student's regional concentration.

◆ Environment and Development (6 or 15 hrs.)

ANTH 4086; DSM 2000, 3910; ECON 4030, 4040, 4520, 4550, 4070, 4320, 4325; EMS 1011, 3040; ENVS 1126, 4261; GEOG 4014, 4045, 4070, 4078, 4080, 4086; LA 2201, 2401, 3201; OCS 4465, 4550; POLI 4049, 4062, 4064; RNR 1001, 2039, 4023, 4030, 4039, 4107; SOCL 2351, 4341, 4351, 4551, 4711

◆ Global Diplomacy (6 or 15 hrs.)

DSM 2020, ECON 4520, 4550, 4560; HIST 2023, 4028, 4049, 4063, 4064, 4066, 4130, 4140; INTL 4010; POLI 4037, 4041, 4042, 4043, 4044, 4046, 4047, 4048, 4049, 4062, 4063, 4064, 4074

◆ Global Studies (6 or 15 hrs.)

ANTH 4031; ECON 4070, 4520, 4550; ENVS 4010; FIN 3718; HIST 2023; INTL 2000, 3002, 3099, 4000, 4100; MC 4103; POLI 4040, 4050, 4041, 4042, 4046, 4060, 4062, 4064; REL 2029, 3300, 4031, 4032; REL/INTL 3092; SOCL 4551, 4701; WGS 2900

**LIBERAL ARTS
(INTERCOLLEGIATE PROGRAM)**

OFFICE • 119 Hodges Hall
TELEPHONE • 225-578-3141
FAX • 225-578-6447

The Bachelor of Arts in Liberal Arts enables students in the College of Arts & Sciences to earn a bachelor of arts degree with a concentration in a variety of areas in which no formal major is offered. The program is designed to give students the opportunity to become broadly educated in the liberal arts, while satisfying the requirements for specialized areas of concentration. *Currently, concentrations are offered in African and African-American studies, art history, and disaster science and management.* Specific courses required for completion of the concentrations are listed below.

CURRICULUM IN LIBERAL ARTS

TOTAL SEM. HRS. • 120

**If a two-course sequence is taken in the physical sciences, then the three-hour course must be from the life sciences and vice versa.*

FRESHMAN YEAR	SEM. HRS.
English 1001	3
Foreign language courses	8-10
General education analytical reasoning course (from mathematics department)	3
Area of concentration courses	6
General education natural science course sequence	6
Approved electives	3
	29-31
SOPHOMORE YEAR	SEM. HRS.
English 2000	3
Foreign language	8-6
General education analytical reasoning course	3
General education natural science course	3
General education humanities courses	6
Area of concentration courses	6
Approved electives	4
	33-31
JUNIOR YEAR	SEM. HRS.
General education humanities course	3
Area of concentration courses	12
General education social science course	3
General education social science course (2000-level or above)	3
Approved electives	10
	31
SENIOR YEAR	SEM. HRS.
Area of concentration courses	13
General education arts course	3
Approved social sciences elective	3
Approved electives	8
	27

Areas of Concentration

◆ African & African American Studies (33 hrs.)

In addition to the nine hours of core required courses, students must complete 24 hours from at least two divisions and three different departments. A minimum of six hours must focus on a geographical region outside the U.S. (Non-U.S.), three hours must be either Service-Learning (S-L) or Communication Across the Curriculum (CxC). Only 12 hours from courses numbered below 3000-level may count toward degree.

Required core (9 hours): AAAS 2000; either AAAS 3024 or AAAS 3044 (CxC); and AAAS 4020

Divisions (24 hours):

Division I - History and Culture: AAAS 2410, 3024, 3120 (Non-US), 3122 (Non-US), 3901, 3902; ANTH 4050, 4051 (Non-US), 4053, 4470; HIST 2061, 4055, 4067, 4068, 4072, 4081 (Non-US), 4200

Division II - Politics and Society: AAAS 2050 (Non-US), 2511, 3024, 3425, 3901, 3902; POLI 4038, 4039, 4078 (Non-US); SOCL 2721, 4511; WGS 2900

Division III - Literature, Language, and the

Arts: - AAAS 1001 (Non-US), 1002 (Non-US), 2003 (Non-US), 2004 (Non-US), 2410; 3044 (CxC); 3341; 3901, 3902, 4322 (Non-US), 4323 (Non-US); ENGL 2674, 3674, 4173, 4220, 4674; FREN 4064, 4070 (Non-US); LING 4716; MUS 2000

Note: This course listing is not exhaustive. Courses from participating departments that are special topic and/or courses with Service-Learning or CxC sections relevant to AAAS may be counted towards the concentration requirements with prior approval from the Program Advisor. For additional information, contact the Program Director, African and African American Studies, 135 Howe-Russell, 225-578-4256, or via email at aaasdirector@lsu.edu.

◆ Art History (33 hrs.)

ARTH 1440, 1441, 2411, and 4499
21 hours of Art History electives to be chosen from the following courses; at least one course required in three of the four subject-areas; no more than two courses allowable at the 2000 level; ARCH 3005 or 3006 may be substituted for one 2000-level course:
Ancient and Medieval Art: ARTH 2401, 4404, 4405, 4406, 4409, 4410, 4412
Renaissance through 18th Century Art: ARTH 2469, 4413, 4423, 4424, 4425, 4427, 4429, 4433
19th through 21st Century Art: ARTH 2470, 4422, 4450, 4451, 4464, 4465, 4466, 4468, 4469, 4470, 4480, 4482, 4484
Non-Western Art: ARTH 4441, 4442, 4443, 4444, 4467

Art History courses that do not fall into any of the above categories may still be counted toward the 21-hour elective requirement; ARTH 4420 and 4490 may be used to fulfill appropriate subject area requirements.

◆ Disaster Science & Management (34 hrs.)

DSM 2000, 2010, 3910, POLI 2057
Disaster Science and Engineering (3 hrs.): ARCH 4041, 4062, CE 4445, 4745, or 4560, GEOG 4013 or OCS 4021, GEOG 4014, 4029 or OCS 4465
Preparedness and Mitigation (3 hrs.): DSM 3200, 4600, ECON 4320, ENVS 4262, 4264, or LA 4204
Social and Cultural Dimensions (3 hrs.): GEOG 4080, HUEC 4064, POLI 4048, 4059, REL 3092 or INTL 3092, or SOCL 4091
Technical Electives (15):
Chemical and Biological Hazards: EMS 4020, ENVS 4101, 4477 or OCS 4040
Community: ARCH 4221, DSM 3200, MGT 3200, 4465 or POLI 2070
Human Environment: HUEC 4064, POLI 4061, PSYC 2004, 3083, SOCL 2211, 4711, SW 3000 or 4500
Natural Hazards: ENVS 4010, GEOG 4018 or CE 4200, GEOG 4028, 4045, or 4047, GEOG 4080, OCS 4024 or 4170
Practicum/Research (Limit 6 hours in this category): DSM 4000, DSM 4900, DSM 4996 (1-6 hrs.)
Additional electives not listed above may be approved by a DSM director.

**LINGUISTICS
(INTERDEPARTMENTAL
PROGRAM)**

OFFICE • 155 Hodges Hall
TELEPHONE • 225-578-3021
FAX • 225-578-4129
E-MAIL • mhegar1@lsu.edu
WEB SITE • www.artsci.lsu.edu/ling

The undergraduate *minor in linguistics* consists of 18 semester hours, with not more than nine semester hours in any one department and at least nine hours must be at the 3000-level or above. Course requirements are as follows:

- *one* introductory linguistics course from these areas: COMD 2050, ANTH 3060, ENGL/LING 4710;
- **one* from the following four core areas: COMD/LING 4150 (phonetics), ENGL/LING 4713 (syntax), ENGL/LING 4714 (phonology), ENGL/LING 4715 (semantics);
- *electives* selected from at least two of the three concentration areas below:
Language and Society: *Language use across socio-cultural contexts and the relationship between language and culture.* ANTH/LING 4060, ANTH/FREN/LING 4064, ANTH 4082, ANTH 4997**, ENGL 3310, 3716, ENGL/LING 4310, ENGL/LING 4711, ENGL/LING 4712, ENGL 4716, FREN 3080, 3280, 4001, SPAN 4001
Language and Cognition: *Language abilities across individuals and the relationship between language and thought.* COMD 4153, 4380, LING 4750, PHIL 2010, 4010, PHIL/LING 4011, PHIL/LING 4914, PSYC 4033**
Language and Applied Linguistics: *Applications of linguistics to the teaching of first/second languages and interpretation/translation studies.* EDCI 4470, 4472, ENGL 2710, 3720, FREN 2057, 4014, 4015, 4065, RUSS/LING 4600, SPAN 4005, 4602, 4603

* An additional course from the core areas may count as an elective, but is not considered one of the courses from the three concentration areas.

** These elective courses may be counted if written justification is provided by the instructor and approved by the Executive Committee in Linguistics.

DEPARTMENT OF MILITARY SCIENCE

OFFICE • 106 Military Science/Aerospace Studies Building
TELEPHONE • 225-578-2371
FAX • 225-578-3560
WEB SITE • www.lsu.edu/guests/wwwmsd/home

For information on this department's program, see the "Reserve Officers Training Corps" section of this catalog.

Army ROTC Scholarships • Four-year scholarships are offered for entering freshmen. Two- and three-year on-campus scholarships are also available. Scholarships pay tuition, fees, books, and a monthly subsistence allowance ranging from \$300 to \$500. LSU provides room and board at no cost to scholarship recipients. See the ROTC chapter and the chapter concerning financial aid and scholarships in this catalog for additional information.

DEPARTMENT OF PHILOSOPHY & RELIGIOUS STUDIES

OFFICE • 106 Coates Hall
TELEPHONE • 225-578-2220
FAX • 225-578-4897
E-MAIL • pisirr@lsu.edu
WEB SITE • www.artsci.lsu.edu/phil

PHILOSOPHY

TOTAL SEM. HRS. • 120

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding approved electives and foreign language requirements. Consult "General Education" section of the catalog for the general education requirements.

*Distribution requirements for foreign languages will depend upon student placement scores and the specific language chosen. Consult the degree requirements for the college for more information. Some adjustment in elective hours may be necessary.

**If 2 course sequence is taken in the physical sciences, the additional 3 hour course must be from the life sciences, and vice versa.

PHILOSOPHY

Philosophy is a traditional part of a university education. This department offers a wide range of courses dealing with fundamental philosophical questions and with the history of philosophy. An undergraduate major or minor in philosophy complements the study of linguistics and computer science, and provides background for further study in law, history, literature, medicine, the business disciplines, and other fields.

Some philosophy courses deal with issues that arise in other fields of study and in certain professions and vocations. Such courses include professional ethics, bioethics, philosophy of art, philosophy of science, and philosophy and film. Logic is especially recommended for students in business, mass communication, and prelaw. Ethics courses are especially recommended for students in business, education, engineering, mass communication, pre-law, pre-medicine, nursing, and other health related fields.

Several honors tutorials and seminars are offered for qualified students (Philosophy 2034, 2036, 2953, 2963, 2964, and 2965), and a special curriculum leading to the BA with departmental honors in philosophy is offered. Details are available from the departmental office.

Students with a philosophy major who do not elect a concentration in religious studies are required to complete 27 hours of philosophy courses, including Philosophy 2010; 2020 (or 3052); 2033 (or 2053), and 2035, plus 15 hours of electives. At least 15 of the 27 hours must be in courses numbered 3000 and above, and at least six of the 15 must be at the 4000 level. Degree credit will not be allowed for more than six hours of courses numbered below 2000.

A *minor in philosophy* requires 15 hours of philosophy courses, at least six of which must be at the 3000/4000 level.

Students majoring in philosophy may elect a concentration in religious studies.

CURRICULUM IN PHILOSOPHY

FRESHMAN YEAR	SEM. HRS.
English 1001 or 1004	3
Foreign language courses*	8-10
General education natural science course sequence**	6
General education natural science course** ..	3
General education analytical reasoning course (from Mathematics Department) ...	3
Philosophy elective	3
Approved elective	3
	29-31

SOPHOMORE YEAR	SEM. HRS.
English 2000	3
Foreign language courses*	8-6
Philosophy 2010 and 2020 (or 3052)	6
Philosophy 2033 (or 2053) and Philosophy 2035	6
General education humanities course	3
Approved electives	6
	32-30

JUNIOR YEAR	SEM. HRS.
General education arts course	3
General education social science course	3
General education social science course (2000 level or above)	3
Philosophy electives	6
Approved electives	15
	30

SENIOR YEAR	SEM. HRS.
Philosophy electives	6
Approved electives	23
	29

CONCENTRATION IN RELIGIOUS STUDIES

The concentration in religious studies is non-confessional and focuses on the study of religion as an academic discipline. It is designed to examine general questions regarding the nature of religion through the study of religious literature and religious practice, and to foster a better understanding and appreciation of religion as a universal component of the human experience. Courses in religious studies bring together perspectives and approaches from a variety of disciplines—including history, philosophy, literature, and anthropology—and students are encouraged to double major or to minor in these or other related fields.

Students concentrating in religious studies must complete a minimum of 27 semester hours of religious studies courses. These include three core courses (Religious Studies 2027 or 2031, 2029 or 2030, and 4301) plus 18 hours of religious studies electives. At least 15 of the 27 hours must be at the 3000 level or above, and of these at least six hours must be at the 4000 level (*including Religious Studies 4301*).

Electives must include a minimum of 3 hours in each of the following areas:

- Western Religions – REL 1004, 1005, 1006, 1007, 2006, 2120, 3002, 3005, 3051, 3100, 3101, 3102, 3104, 3786, 4005, 4006, 4011, 4012, 4095, 4096, 4098, 4227, 4500.
- Nonwestern Religions – REL 2034, 3033, 4001, 4191, 4600, 4800, 4850.
- Theoretical Studies in Religion – REL 2028, 3015, 3030, 3092, 3201, 3236, 3300, 4032, 4050, 4944.

A *minor in religious studies* requires 15 hours of religious studies courses, including Religious Studies 2027, 2029, and nine hours of religious studies electives, of which at least six hours must be at the 3000 level or above.

Some religious studies courses are cross-listed with other departments. These courses should be taken under the Religious Studies rubric (REL) if they are to count toward the 27 hours needed for the major or toward the 15 hours needed for the minor.

CONCENTRATION IN RELIGIOUS STUDIES

FRESHMAN YEAR	SEM. HRS.
English 1001 or 1004	3
Foreign language courses*	8-10
General education natural science course sequence**	6
General education analytical reasoning course (from Mathematics Department) ...	3
Religious Studies 2027 (2031) or 2029 (2030)	3
Religious Studies elective	3
Approved elective	3
	29-31

SOPHOMORE YEAR	SEM. HRS.
English 2000	3
Foreign language courses*	8-6
General education natural science course** ..	3
General education analytical reasoning course	3
General education humanities course (may be met by approved Religious Studies course)	3
Religious Studies 2027 (2031) or 2029 (2030)	3
Religious Studies electives	6
Approved elective	3
	32-30

JUNIOR YEAR	SEM. HRS.
General education arts course.....	3
General education social science course.....	3
General education social science course (2000 level or above)	3
Religious Studies electives.....	6
Approved electives.....	15
	—
	30

SENIOR YEAR	SEM. HRS.
Religious Studies 4301.....	3
Religious Studies electives.....	3
Approved electives.....	23
	—
	29

DEPARTMENT OF POLITICAL SCIENCE

OFFICE • 240 Stubbs Hall
TELEPHONE • 225-578-2141
FAX • 225-578-2540
WEB SITE • www.lsu.edu/politicalscience

Students *majoring* in political science must complete a minimum of 33 semester hours in political science courses, of which a minimum of 18 hours must be in courses numbered 3000 and above. Political science courses are divided into four fields: (1) American government and politics; (2) comparative government and politics; (3) international politics and law; and (4) political theory.

Political science course work must be distributed among these fields as follows: 12 hours in one field; six hours in each of two additional fields; and nine hours (or more) of electives distributed in any fields. A list of political science courses grouped by fields is available from the departmental office.

Political Science 1001, 2001, 3901, 3909, and 4001 may not be counted toward fulfilling field distribution requirements, but may be counted as political science electives.

Although some courses are cross-listed in more than one field, no course can be accepted for credit in more than one field. Political Science 2051 is required for all undergraduate majors.

Students interested in careers in law and government should consult with the department undergraduate or prelaw counselor.

Honors work is provided through Political Science 2052, 3000, 3896, and 3897. A special curriculum leading to the BA with departmental honors in political science is offered. Details are available from the departmental office.

Political science majors must meet the general education humanities requirement by taking six hours of history and three hours of literature from the list of general education humanities courses.

The requirements for a *minor in political science* are Political Science 2051 and 15 additional hours in political science; six of the 18 hours in political science must be at the 3000-level or above.

CURRICULUM IN POLITICAL SCIENCE

TOTAL SEM. HRS. • 120

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding approved electives and foreign language requirements. Consult "General Education" section of the

catalog for the general education requirements.

*Two of these general education humanities courses must be from history and one from among the literature courses on the Gen Ed humanities course list.

**If a two-course sequence is taken in the physical sciences, the three-hour course must be from the life sciences, and vice versa.

FRESHMAN YEAR	SEM. HRS.
English 1001.....	3
Foreign language courses.....	8-10
General education humanities course*.....	3
General education analytical reasoning course (from mathematics department)....	3
Political Science 1001 (recommended, but not required), 2051.....	6
General education natural science sequence**	6
	—
	29-31

SOPHOMORE YEAR	SEM. HRS.
Foreign language	8-6
English 2000.....	3
General education natural science course**..	3
General education analytical reasoning course	3
General education humanities course*.....	3
Approved political science courses.....	6
Approved electives or ROTC	6
	—
	32-30

JUNIOR YEAR	SEM. HRS.
Approved political science courses.....	9
General education humanities course*.....	3
General education social sciences course.....	3
Approved electives	15
	—
	30

SENIOR YEAR	SEM. HRS.
Approved political science courses.....	12
General education arts course	3
Approved electives	14
	—
	29

DEPARTMENT OF PSYCHOLOGY

OFFICE • 236 Audubon Hall
TELEPHONE • 225-578-8745
FAX • 225-578-4125
WEB SITE • www.lsu.edu/psychology
E-MAIL • psychology@lsu.edu

Admission to a curriculum in the Department of Psychology requires that a student be admissible to the College of Arts & Sciences and have a gpa of 2.50 or above in all work taken within the LSU system and on all work taken overall.

For continued enrollment, students *majoring in psychology* must maintain a gpa of 2.50 or above in all work taken within the LSU system and all work taken overall. Students *majoring in psychology* must take Psychology 2000, 2017, and 4008; and Experimental Statistics 2201. Students must complete one course in each of four core areas listed below and six additional hours of psychology from the core areas or from the additional electives listed below. Credits earned in the excluded electives listed below may not apply to the 32-credit minimum of required psychology credits, but may apply toward credits for graduation.

Students *majoring in psychology* must take an extra three credit hours of natural science lecture and two credit hours of natural science laboratory beyond the minimum

general education natural science requirements.

A student must complete the following 15 hours to graduate with a *minor in psychology*: Psychology 2000—three hours; two courses from core areas listed below—six hours; two courses from core areas or additional electives listed below—six hours.

- *Basics* (required of all majors): PSYC 2000 or 2001; 2017; 4008; and EXST 2201
- *Core Areas* (students must complete a course from four areas):
 - a. *Advanced Methods*: PSYC 3018 or 3020 or 4111
 - b. *Biological Basis*: PSYC 4031 or 4034 or 4035 or 4037.
 - c. *Learning and Cognition*: PSYC 4030 or 4032 or 4033 or 4160
 - d. *Developmental Processes*: PSYC 4036 or 4070 or 4072 or 4176 or 4178
 - e. *Applied/Social*: PSYC 3050 or 3140 or 3083 or 4050 or 4080
- *Additional Electives*: PSYC 2040, 3030, 3081, 3082, 4038, 4039, 4040
- *Excluded Electives*: PSYC 2004, 2060, 2070, 2076, 2078, 2999, 4999. These courses will not count toward the 32 hours required in the major, but are permissible electives above the 32-hour minimum. Students choosing the honors option will enroll in three to six hours of 4999, in addition to the 32 hours required in the major.

CURRICULUM IN PSYCHOLOGY

TOTAL SEM. HRS. • 120

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and foreign language requirements. Consult "General Education" section of the catalog for the general education requirements.

*If a two-course sequence is taken in the life sciences, the remaining lecture credit hours must be from the physical sciences, and vice versa.

**The two credits of laboratory should be associated with the chosen two-course natural science sequence.

***Two general education humanities courses must be from history and one from among the literature courses on the general education humanities list.

FRESHMAN YEAR	SEM. HRS.
English 1001	3
Foreign language courses	8-10
Mathematics 1021; 1022 or 1431	6
General education natural science sequence*	6
Natural science laboratory**	2
General education humanities course***	3
	—
	28-30

SOPHOMORE YEAR	SEM. HRS.
English 2000	3
Foreign language	8-6
Psychology 2000	3
Experimental statistics 2201	4
General education natural science courses*..	6
General education humanities courses***	6
	—
	30-28

JUNIOR YEAR	SEM. HRS.
Psychology 2017, 4008.....	7
Approved psychology electives	6
General education arts course	3
General education social science courses (from two fields other than history or psychology)	6
Approved electives	9
	31

SENIOR YEAR	SEM. HRS.
Approved psychology electives	12
Approved electives	19
	31

DEPARTMENT OF SOCIOLOGY

OFFICE • 126 Stubbs Hall
TELEPHONE • 225-578-1645
FAX • 225-578-5102
WEB SITE • www.soc.lsu.edu

Functions of the department are to conduct teaching and research in the College of Arts & Sciences and the Graduate School, to provide an undergraduate degree program in sociology including concentrations in applied sociology, criminology and rural sociology, and to conduct research in rural sociology for the Louisiana Agricultural Experiment Station.

The department is research-oriented and committed to the further development of sociology as a science as well as to the application of sociological principles in societal programs. With respect to its teaching responsibilities, the department contributes to preprofessional preparation of undergraduates and develops professional sociologists at the graduate level.

In order to graduate with a *minor in sociology*, students are required to complete Sociology 2001 and at least 12 additional hours in sociology, six semester hours of which must be in courses at the 3000-level or above.

To graduate with a *minor in rural sociology*, students must complete (1) SOCL 1001 or 2001; (2) SOCL 2351; (3) two of the following: SOCL 4351, 4551, 4701, or 4711; and (4) at least six additional elective hours in sociology. Students interested in pursuing a graduate degree in rural sociology are encouraged to elect SOCL 2211 and 3101.

A special program leading to the BA degree with departmental honors in sociology is also offered. Detailed information is available from the departmental office.

CURRICULUM IN SOCIOLOGY

TOTAL SEM. HRS. • 120-123

A grade of "C" or higher must be earned in *Sociology 2001, 2201, 2211, and 3101.*

Sociology majors are strongly advised to schedule all College of Arts & Sciences and departmental lower-level requirements in their first two years.

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education biological and physical sciences, literature, mathematics, and social sciences requirements. A certain course may satisfy general education, college, and/or departmental requirements.

**If sequence is taken in biological sciences, then alternative science should be in the physical sciences category and vice versa.*

FRESHMAN YEAR	SEM. HRS.
English 1001.....	3
Foreign language courses	8-10
Mathematics 1021	3
Sociology 2001	3
General education analytical reasoning course	3
General education biological or physical sciences (two semesters lecture sequence with corresponding labs)*	8
	28-30

SOPHOMORE YEAR	SEM. HRS.
English 2000.....	3
Foreign language	8-6
Sociology 2201, 2211	7
General education biological or physical sciences (one semester lecture in alternative science)*	3
Approved history electives	6
Approved literature courses.....	6
	33-31

JUNIOR YEAR	SEM. HRS.
Sociology 3101	3
Approved sociology electives (3000- level or above).....	6
General education arts course	3
General education social sciences course	3
General education humanities course	3
Approved social sciences elective (other than history or sociology).....	3
Approved electives	9
	30

SENIOR YEAR	SEM. HRS.
Approved sociology electives (3000- level or above).....	9
Approved sociology elective	3
Approved social sciences electives	5
Approved electives	12-15
	29-32

Areas of Concentration

◆ Applied Sociology

Applied sociology is the application of sociological research and theory in practical settings. A concentration in applied sociology is available by selecting the following courses: (1) SOCL 4301 or 4311 or 4321 or 4331 as an approved sociology elective (3000-level or above); (2) SOCL 4401 or 4411 or 4431 or 4451 as an approved sociology elective (3000-level or above); (3) SOCL 3505 or 4511 or 4521 or 4531 as an approved sociology elective (3000-level or above); and (4) SOCL 4011 as an approved sociology elective.

◆ Criminology

Criminology is the study of the nature and causes of crime, patterns of crime, and the social control of criminal behavior. A concentration in criminology is available by selecting the following courses: (1) SOCL 3371, 3501, and 4471 as approved sociology electives (3000-level or above); (2) SOCL 4461 as an approved sociology elective and POLI 4020 or 4021 or 4022 or 4023 as one of the approved social sciences electives.

◆ Rural Sociology

Rural sociology explores the issues and challenges faced by people living in sparsely populated areas and small communities. A concentration in rural sociology is available by selecting the following courses: (1) SOCL 2351 as the approved sociology elective; (2) SOCL 4351 as an approved sociology elective (3000-level or above); and (3) AGECE 2003 and either AGECE 3503 or 4503 or 4603 as approved electives.

WOMEN'S & GENDER STUDIES (INTERDEPARTMENTAL PROGRAM)

OFFICE • 118 Himes Hall
TELEPHONE • 225-578-4807
FAX • 225-578-4804
WEB SITE • www.lsu.edu/wgs
E-MAIL • wgs@lsu.edu

To graduate with a *minor in Women's & Gender Studies*, students must complete WGS 2500, 4500, and 12 hours of electives, at least nine of which must be in courses at the 3000-level or above. Electives must be chosen from at least two of the following areas:

- *Literature*—ENGL 2593, 3593, 4593 (depending upon topic); FREN 4090, 4095; SPAN 4100
- *Culture and Society*—ENGL 4493; CLST 2080; HIST 4079; REL 3300; SOCL 4413, 4521; CMST 3115
- *Theory*—ENGL 4593 (depending upon topic); PHIL 4015; WGS 3150.

In addition, WGS 4900, special topics courses, and courses with sections advertised as Women's & Gender Studies may be accepted for the minor with the approval of the Director. For additional information, contact Dr. Michelle Massé, Women's & Gender Studies, 118 Himes Hall, 225-578-4807 or visit their Web site at www.lsu.edu/wgs.

The Bachelor of Arts degree in Women's & Gender Studies is an interdisciplinary degree that brings together insights from various disciplines and departments, while fostering particular expertise in the student's own field of interest. Courses in Women's & Gender Studies examine such topics as the achievements of women historically and cross-culturally, the intersections of gender with race, class, sexuality, and the role gender plays in literature, history, politics, law, sports, and the sciences. This BA program prepares students for workplaces and fields of academic study that increasingly emphasize flexibility and the ability to use knowledge in diverse communities in multiple ways. Students majoring in Women's & Gender Studies must complete 36 semester hours of course work including three required courses (WGS 2500, WGS 2900, WGS 3150), two Women's and Gender Studies special topics courses (WGS 4500), an approved cross-cultural course and 18 additional hours of WGS-approved humanities and social sciences courses. Of these elective courses, nine hours must be at the 3000 level or above.

**CURRICULUM IN WOMEN'S &
GENDER STUDIES**

**This program is currently suspended
(effective Fall 2010).**

TOTAL SEM. HRS. • 120

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and foreign language requirements. Consult "General Education" section of the catalog for the general education requirements.

**If sequence is taken in life sciences, then alternative science must be in the physical science category, and vice versa.*

***Courses that meet the cross-cultural course requirement must be on the approved list that can be found on the WGS Web site or be approved by the WGS Director or Undergraduate Advisor.*

FRESHMAN YEAR	SEM. HRS.
English 1001	3
Women's & Gender Studies 2500	3

General education analytical reasoning course (from math dept).....	3
Foreign language courses	8-10
General education life or physical sciences* .	6
Approved electives.....	6
	—

29-31

SOPHOMORE YEAR	SEM. HRS.
Women's & Gender Studies 2900	3
WGS-approved humanities and social sciences electives	6
English 2000	3
Foreign language courses	8-6
General education life or physical sciences (one course)*	3
General education arts course.....	3
General educational analytical reasoning course	3
Approved elective	3
	—

32-30

JUNIOR YEAR	SEM. HRS.
Women's & Gender Studies 3150.....	3
Women's & Gender Studies 4500.....	3
WGS-approved humanities and social sciences electives.....	3
Approved cross-cultural course**.....	3
General education humanities course.....	3
General education social science course	3
Literature course from the general education humanities list	3
Approved electives.	9
	—
	30

SENIOR YEAR	SEM. HRS.
Women's & Gender Studies 4500.....	3
WGS-approved humanities and social sciences electives.....	9
Approved electives	17
	—
	29

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COLLEGE OF Basic Sciences

KEVIN R. CARMAN,
Dean

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Fenton Alumni Professor*
Associate Dean for Student Services

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The College of Basic Sciences offers preparation for careers in biochemistry, biological sciences, chemistry, computer science, geology and geophysics, mathematics, microbiology, and physics and astronomy. Students are also provided with strong academic backgrounds for professional study in medicine, dentistry, pharmacy, and many other careers that require in-depth study of science and mathematics.

The departments within the college, the various curricula, and the degrees that may be earned are shown in the following chart. These curricula provide broad general education as well as knowledge of the structure of science. Students in the college may also choose curricula that provide premedical or predoctoral preparation, including curricula in biochemistry, biological sciences, chemistry with a preprofessional concentration, computer science with a life sciences concentration, and physics with a medical physics concentration. Classroom and laboratory study may be supplemented by contact with active research programs.

The Department of Computer Science offers work leading to the bachelor's and doctoral degrees in computer science and is a participating department in the University's graduate program leading to the Master of Science in Systems Science degree. The other departments of the college offer work leading to the bachelor's, master's, and doctoral degrees.

For specific information concerning undergraduate degree programs, refer to the curricula offered by the departments on the following pages. Detailed information about graduate degree programs may be obtained from the *Graduate Bulletin*.

ADMISSION REQUIREMENTS

Students who contemplate entering this college should give special attention to the mathematics and science courses they select and should consult a representative of the department they plan to enter prior to completing their initial registration.

Students will be admitted to the college when they:

- have earned 24 or more semester hours of credit in courses numbered 1000 or above;
- have maintained a grade point average of at least 2.00 on both LSU and cumulative averages;
- have passed all courses in mathematics and science with grades of "C" or better or received special approval of the dean of the college;
- have passed ENGL 1001 or the equivalent with a grade of "C" or better;
- have earned credit in either MATH 1022, 1023, 1550 or 1551 with a grade of "C" or better.
- Entry into any of the three majors (biochemistry, biological sciences, and microbiology) in the Department of Biological Sciences requires earned credit in BIOL 1201 and 1202; CHEM 1201; and MATH 1550.

- Entry into any of the four secondary education concentrations (biological sciences, chemistry, mathematics or physics) requires a 2.50 LSU and cumulative gpa and passing scores on the PRAXIS I assessments or minimum ACT composite of 22 or minimum SAT composite of 1030.

Transfer students from other accredited colleges or universities will be permitted to enter the college when they: (1) present, by means of an official transcript, evidence that they have met the current admission requirements of the University and the senior college; and (2) receive approval of the dean of the college.

Students who, after initial enrollment in this college, wish to obtain credits from colleges or universities other than LSU and who plan to offer such credits toward their degree requirements must obtain prior approval from the dean on a specific-course basis.

STUDENT RESPONSIBILITY

Students in this college bear final responsibility for selection of their academic programs and adherence to all published regulations and requirements of the college and the University. Each student must see his or her counselor in the college office for a final degree checkout during the semester *prior to* the semester in which the degree is to be awarded.

CORRESPONDENCE AND INTERSESSION CREDIT

Correspondence credit may be accepted toward meeting degree requirements only with approval of the dean of the college and may not exceed a total of 12 hours.

Students in the College of Basic Sciences may not register for more than three semester hours of credit during Intersession without approval of the dean.

Students in residence may take courses by correspondence only in exceptional cases (e.g., conflicts between single sections of required courses) and with specific approval of the dean of the college.

Students may not be enrolled in correspondence course work the semester they intend to graduate.

DEGREE REQUIREMENTS OF THE COLLEGE

The college offers the bachelor's degree in several curricula designed to give students a thorough education in a particular scientific discipline. In addition, a core of material representing a broad exposure to the human cultural heritage is an integral part of the curricula in the college. That core consists of the following course work.

English • Twelve semester hours including ENGL 1001, 2000 and six hours chosen from 2000-level or above English or Honors courses from the general education humanities list.

COLLEGE OF BASIC SCIENCES • UNDERGRADUATE DEGREES

Departments	Curricula	Degrees
Biological Sciences	Biochemistry	Bachelor of Science
	Biological Sciences	
	Microbiology	
Chemistry	Chemistry	
Computer Science	Computer Science	
Geology & Geophysics	Geology	
Mathematics	Mathematics	Bachelor of Science
Physics & Astronomy	Physics	

Mathematics • A minimum of five semester hours of calculus (Mathematics 1550). Some curricula require additional credits in mathematics. Degree credit will not be allowed for mathematics courses numbered below 1550.

Foreign Language • Students may satisfy the college foreign language requirement by passing eight to 10 semester hours in a single foreign language. Ordinarily, courses numbered 1001 and 1002, or 1101 and 1102, or 1001 and 2051 are chosen. For example, students choosing Russian will take RUSS 1001 and 1002 (10 semester hours), but students choosing French will take FREN 1001 and 1002 (8 semester hours) and the additional two semester hours will be added to free electives.

International students whose native language is not English and who did not attend an English-speaking high school may satisfy the foreign language requirement as follows:

- As shown above (in a language other than the student's native language); or
- By passing nine hours in his or her native language in courses that may be taken for credit by native speakers of the language; or
- By taking nine semester hours of English and/or speech (CMST) above the minimum requirements in the curriculum for the BS degree. The courses must be pre-approved by the dean and must be taken at LSU. At least three hours must be at the 2000 level or above.

Sciences • Fourteen hours including two semesters of study in the biological sciences, and a year-course in a physical science. Either the biological or physical sciences must include laboratory credits. Courses selected to meet this requirement must be chosen from courses offered by departments in the College of Basic Sciences.

Social Sciences and Humanities • Fifteen semester hours in most curricula of the college. These hours are in addition to the English and foreign language requirements described above. Nine to 12 hours of the required social sciences/humanities courses must be chosen from the list of general education courses in the following way: three hours in the arts, three hours in the humanities (depending on the curriculum), and six hours in the social sciences.

Following is a listing of the more important academic policies of the college offered to guide students toward degrees.

- All students must complete a program of study established by the department concerned and approved by the faculty and the dean of the college.
- No curriculum in the college requires less than 120 semester hours; some curricula require more. Students in all degree programs of the college must earn at least 24 of the last 30 semester hours offered toward their degrees as registrants in the College of Basic Sciences at LSU. The University requires that all candidates for the bachelor's degree must fulfill a minimum residence requirement of two semesters (or four summer terms) and must earn at least 25 percent of the total number of hours required for the degree at this University.
- Students in all degree programs of the college must earn in residence on the LSU campus (Baton Rouge) at least 18 of the hours offered toward their degrees in courses offered by departments in the College of Basic Sciences. In all degree programs, at least nine of these 18 hours must be in courses numbered above 3000 and offered by the department administering the major program. Students

majoring in the Biological Sciences Department must have nine semester hours in courses numbered above 3000 in their major. Research courses cannot be used in the residence requirement of nine hours numbered above 3000. A maximum of three semester hours in research courses may be used in the 18-hour residence requirement. Courses used to satisfy all residence requirements must be passed with a grade of "C" or better.

- Correspondence courses and courses in which credit was earned through credit examination may not be used to satisfy the college residence requirement.
- The following courses must be passed with a grade of "C" or better: (1) all required science, computer science, and mathematics courses; (2) all restricted, second discipline, and advanced sciences electives; and (3) English 1001 and 2000. If a student makes a "D" or "F" in a course requiring a "C," the course must be taken and not dropped the next semester the student is in residence and the course is offered.
- Nonparticipation courses in kinesiology may be taken for elective credit. A maximum of three semester hours will be allowed in kinesiology participation (activity) courses. Twelve semester hours of ROTC may be allowed for degree credit, with no more than six of the twelve semester hours in courses numbered below 3000. However, the sum of basic (1000-2000 level) ROTC course credits and kinesiology activity course credits allowed toward the degree may not exceed six semester hours.
- Students are expected to make reasonable and satisfactory progress in a degree program. Consequently, sequential sched-

uling of courses in the major field is necessary, and required courses in English and mathematics must be scheduled each semester until they are satisfactorily passed. If necessary, a required course may be dropped *once*, but normally, *not* a second time.

- Application for the bachelor's degree must be made in writing and approved by the dean of the college during the semester *prior* to the semester in which the degree is to be awarded.
- In order to meet graduation requirements, students must have a 2.00 on both the LSU and cumulative grade point average. A 2.50 LSU and cumulative grade point average is required for students graduating in any of the secondary education concentrations.

MINOR FIELD REQUIREMENTS (OPTIONAL)

A student in the College of Basic Sciences may earn a minor in a second field under the following conditions:

- The minor must include at least 17 semester hours of course work, of which at least six semester hours must be taken on this campus and at least three of the six hours must be at the 3000 or 4000 level.
- Each course used in the minor must be passed with a grade of "C" or better.
- Courses used for the minor may not be taken on a pass/fail basis.
- All minors must be approved by the dean.

The department offering the minor may impose additional requirements; the specific requirements of the department must be stated in the catalog.

Students in other colleges who wish to obtain a minor in one of the departments of the College of Basic Sciences must meet the same requirements listed above.

COLLEGE PROBATION

A student in the College of Basic Sciences who fails to earn a 2.00 semester average in a regular semester or a summer term will be placed on college probation. In addition, students who fail to meet the college academic requirements noted in the section on degree requirements, or who enter the college with deficiencies may be placed on college probation. At the discretion of the dean, a student who is on college probation and fails to meet the academic requirements, including earning a 2.00 or better semester average, may be declared ineligible to continue in the college. A student on college probation who does earn a 2.00 or better semester gpa, who remediates course deficiencies, and who makes satisfactory progress in the degree program will be removed from college probation.

PRE-MEDICAL AND PRE-DENTAL COUNSELING

Counselors are available to help students with applications to medical and dental schools. This application process begins one and one-half years prior to professional school entry. Information regarding the

pre-medical/pre-dental program at LSU and the professional school application process is available at the following Web site: <http://science.lsu.edu/premedicalpreidental.cfm>.

The College of Basic Sciences sponsors a Pre-medical/Pre-dental Review Committee that provides letters of evaluation for LSU students applying to professional schools. Students wishing to use the services of the LSU Pre-medical/Pre-dental Review Committee must: (1) have a minimum 3.0 cumulative and science gpa, (2) have been enrolled on the LSU main campus as a full time student for the two semesters preceding the committee review, (3) attend mandatory informational meetings, and (4) meet all registration deadlines.

Further information about the committee procedures and requirements may be obtained in the dean's office, 351 Hatcher Hall.

TEACHER PREPARATION PROGRAM FOR GRADES 6-12

The departments of Biological Sciences, Chemistry, Mathematics, and Physics & Astronomy offer undergraduate degree programs with an area of concentration in secondary education (middle school and high school). Students in the program may receive a BS in biological sciences, chemistry, mathematics, or physics and qualify for teacher certification. The curricula have been developed cooperatively with faculty in the College of Education and include courses taught jointly by faculty in the College of Basic Sciences and the College of Education. Students completing these degree programs and meeting any additional requirements of the Louisiana Department of Education will be eligible for certification in the state of Louisiana as teachers in grades 6-12.

The following requirements pertain to students enrolled in the secondary education concentration:

Admissions Requirements:

- Minimum cumulative and LSU grade point average of 2.50
- Passing scores on all parts of the Praxis I Series or minimum ACT composite score of 22 or minimum SAT composite score of 1030

Retention Requirements:

- Minimum cumulative and LSU Grade point average of 2.50 for entry into and continuation in upper (3000/4000) level education courses, including student teaching

Degree Requirements:

- Satisfactory completion of an approved program of study as determined by all of the following: faculty of the college in which the major/concentration resides, the University, the LSU P-12 Education Advisory Council, and the Louisiana Board of Elementary and Secondary Education
- Minimum cumulative and LSU gpa of 2.50 on all work completed
- Passing scores on all required parts of the Praxis II Series
- Grade of "C" or higher in course work as

specified by the Louisiana Board of Elementary and Secondary Education

A second option for students interested in middle/high school science teaching is to pursue a traditional bachelor's degree in science and then complete a master's degree in the LSU College of Education. The master's degree program (Holmes Program) begins in June and requires 12 consecutive months of course work and classroom experience leading to both the master's degree and teaching certification. Information about the program and potential scholarship assistance is available through the College of Education, Office of Student Services.

EARNING TWO DEGREES, OR ONE DEGREE WITH TWO MAJORS

With the dean's approval, a student may be enrolled in two bachelor's degree programs concurrently and thereby either earn two degrees, or earn one degree with two majors listed on the transcript, provided all requirements are completed as of the same commencement.

A student may earn one degree, with two majors listed on the transcript, by completing the residence and academic requirements for each major and the degree program to which it belongs. The student may earn two degrees by, in addition, earning 30 hours more than required for the degree that requires the fewer number of hours.

If the two programs are in different colleges, then the student must be accepted for admission to both colleges and must adhere to the regulations of both colleges. The student must declare a home college, where registration will be initiated and permanent files maintained, and must maintain contact with the second college to ensure that satisfactory progress is being made toward the requirements of its degree program.

PASS-FAIL OPTION

Students in the College of Basic Sciences may register for courses in the college on a pass-fail basis under the following conditions:

- Only students with a 2.50 average or better may participate.
- Only *free elective* courses may be taken on a pass-fail basis. Required courses, restricted electives, and courses germane to the major and the career for which the student is preparing may not be taken on a pass-fail basis. Registration for a course on a pass-fail basis will not be permitted until the required work in the same area has been satisfactorily completed. A student *may not* take courses offered by the Honors College on a pass-fail basis.
- Eligible students may take one course per semester up to a total of 12 hours toward the degree on a pass-fail basis.
- A student must have permission (by signatures on a petition form) from the dean of this college, the instructor of the course, and the student's department chair.
- Pass-fail registration must be completed before the final day for adding courses.

Students from other colleges who wish to register for courses in this college on a pass-fail basis will present a petition form to the dean of the college. If the petition is approved, the student will then present the form to the instructor concerned for the appropriate action.

Courses offered by the College of Basic Sciences that are required in a student's curriculum or are normally considered important in preparation for the student's career will not be approved on a pass-fail basis.

PHI BETA KAPPA

Seniors and juniors with gpa of at least 3.60 and 3.90, respectively, are considered for membership in Phi Beta Kappa, the oldest scholastic honor society in the United States. Excellence in a variety of intellectual disciplines, rather than proficiency in a single field of study, is the major criterion for election.

The academic record should include satisfactory completion of the general education requirement, including two courses in English or American literature or literature in a foreign language (if not the major field); six-hour sequences in both a life science and a physical science, with an additional two hours of related laboratory work in one of these fields; upper division courses (3000 level or above) in at least two different humanities or social sciences outside the major; and electives that show a commitment to a liberal education.

Sophomores and juniors with high gpas should consult with Phi Beta Kappa officers or college counselors for more specific information. Specific requirements are described on the Phi Beta Kappa Web site lsu.edu/student_organizations/phiбетakappa/.

PHI KAPPA PHI

Founded in 1897 at the University of Maine, Phi Kappa Phi is the nation's oldest, largest, and most selective honor society for all academic disciplines. Its chapters are on nearly 300 campuses in the United States, Puerto Rico, and the Philippines. Each year, approximately 30,000 members are initiated. Some of the organization's more notable members include former President Jimmy Carter, writer John Grisham, NASA astronaut Wendy Lawrence, and Netscape founder James Barksdale. The LSU chapter was founded in 1930 as the 43rd chapter in the nation.

The mission of Phi Kappa Phi is to recognize and promote academic excellence in all fields of higher education and to engage the community of scholars in service to others. Phi Kappa Phi is unique because it recognizes superior scholarship in *all academic fields*, rather than restricting membership to a limited field. Juniors in the top 7.5 percent and seniors and graduate students in the top 10 percent of their classes may be invited to become members of Phi Kappa Phi. New LSU Phi Kappa Phi members are initiated and honored in the spring semester each year and wear identifying ribbons on their academic gowns at commencement exercises. Additional information about the Society may be found at

www.phikappaphi.org.

DEPARTMENTS AND CURRICULA

DEPARTMENT OF BIOLOGICAL SCIENCES

OFFICE • 202 Life Sciences Building
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The Department of Biological Sciences offers a comprehensive background in biology for teacher preparation, graduate studies, and for professional programs in medicine, dentistry, pharmacy, and veterinary medicine. The department offers bachelor of science degrees in biochemistry, biological sciences and microbiology. All degrees require a core of departmental courses that include BIOL 1201, 1202, 1208, 1209, 2051, 2153, and either 4087 or 4093 and 4094. In addition, all students are required to take 20-25 hours of electives from courses numbered 3000 and above in biological sciences that include two courses with laboratories and at least one course from three of four departmental groupings (described below). Students seeking the bachelor of science degree in biological sciences may fulfill the requirement for 20 hours of electives with courses from all areas of the department while students seeking the biochemistry and microbiology degrees take courses specific to those degrees. All students in the department may earn a maximum of six hours of BIOL 3999. A maximum of three hours of BIOL 3999 may be taken as advanced biochemistry, biological sciences, or microbiology electives. BIOL 3999 may not be used as a laboratory course. Students may earn more than one degree in the department but biological science courses numbered 3000 and above (excluding the core biochemistry courses) may only be applied to one degree. This policy also applies to transfer students who enter with a degree earned in one of the Department of Biological Sciences majors. Majors in the department are ineligible for the departmental minor.

An undergraduate *minor in biological sciences* is available to students majoring in curricula outside the Department of Biological Sciences. Required courses are BIOL 1201, 1202, 1208, 1209, 2051, 2153, 4087, and at least three more hours of biological sciences in a course at the 3000-level (excluding BIOL 3999) or above (total of 23 hours).

Admission into the Department of Biological Sciences

In addition to admission to the College of Basic Sciences, entry into any of the three majors (biochemistry, biological sciences, and microbiology) in the Department of Biological Sciences requires earned credit in BIOL 1201 and 1202; CHEM 1201; and MATH 1550.

CURRICULUM IN BIOCHEMISTRY

TOTAL SEM. HRS. • 125

FRESHMAN YEAR	SEM. HRS.
Biological Sciences 1201, 1202, 1208, 12098	8
Chemistry 1201, 1202, 1212	3
English 1001	3
Mathematics 1550, 1552	9
General education arts course	3
	31

SOPHOMORE YEAR	SEM. HRS.
Biological Sciences 2051, 2153	8
Chemistry 2001, 2261, 2262, 2364	10
Physics 2001, 2002, 2108, 2109	8
English 2000	3
General education social science course	3
	32

JUNIOR YEAR	SEM. HRS.
Biological Sciences 4001, 4093, 4094	9
Approved biochemistry elective	6
Foreign language courses	8-10
Six hrs. chosen from 2000-level or above	
English or Honors courses from the general education humanities list	6
Approved electives	3-1
	32

SENIOR YEAR	SEM. HRS.
Biological Sciences 4385	3
Approved biochemistry electives	9
General education social sciences course (sophomore level or above)	3
Social science/humanities courses	6
Approved electives	9
	30

Approved biochemistry electives must come from the following list, must include at least one laboratory course, and must include at least one course from both Group 1 and Group 3 and two courses from Group 2:

- Group 1: BIOL 4596; CHEM 4150, 4160, 4552, 4561, 4562, 4563, 4564, 4570, 4572
- Group 2: BIOL 3060, 3090, 3156, 4110, 4132, 4158, 4159, 4160, 4177, 4246, 4400, 4450, 4753
- Group 3: Ecology and Evolution course or Organismal Diversity course (courses in this group are listed as areas three and four at the end of the curriculum in Biological Sciences)

BIOL 3999 can also be taken as a biochemistry elective but does not count as a laboratory course.

CURRICULUM IN BIOLOGICAL SCIENCES

TOTAL SEM. HRS. • 125

FRESHMAN YEAR	SEM. HRS.
Biological Sciences 1201, 1202, 1208, 1209.8	8
Chemistry 1201, 1202, 1212	3
English 1001	3
Mathematics 1550, 1552 or EXST 2201	9
General education arts course	3
	31

SOPHOMORE YEAR	SEM. HRS.
Biological Sciences 2051, 2153	8
Chemistry 2261, 2262, 2364	8
Six hrs. chosen from 2000-level or above	
English or Honors courses from the general education humanities list	6

Foreign language courses.....	8-10
English 2000.....	3
Approved electives.....	2-0
	<u>35</u>

JUNIOR YEAR SEM. HRS.	
Biological Sciences 4087 or 4093 and 4094.....	4-6
Approved biological sciences electives.....	6-9
Physics 2001, 2002, 2108, 2109.....	8
General education social sciences courses (one course at the sophomore level or above).....	6
Approved electives.....	5-0
	<u>29</u>

SENIOR YEAR SEM. HRS.	
Approved biological sciences electives.....	11-14
Social sciences/humanities courses.....	6
Approved electives.....	13-10
	<u>30</u>

Approved biological sciences electives (20 hrs. required) are BIOL courses numbered 3000 and higher and must include two courses with laboratories (excluding independent research BIOL 3999). Further, biological sciences electives must include at least one course from three of the following areas: 1) *molecular and cellular biology*: BIOL 3090, 3116, 4001, 4104, 4123, 4124, 4127, 4132, 4159, 4177, 4190, 4246, 4385, 4400, 4596, 4753; 2) *physiology, anatomy, and development*: BIOL 3060, 3152, 3156, 4110, 4155, 4158, 4160, 4200, 4444; 3) *ecology and evolution*: BIOL 3040, 4015, 4084, 4090, 4253, 4262, 4600; 4) *organismal diversity*: BIOL 4020, 4041, 4053, 4054, 4084, 4105, 4125, 4126, 4141, 4142, 4145, 4146, 4154, 4162, 4163, 4600, 4653.

Areas of Concentration

◆ Marine Biology (18-19 hrs.)

Students may obtain an area of concentration in Marine Biology by meeting the requirements of the biological sciences degree, incorporating the following courses into their program of study.

Required courses (18-19 hrs.) OCS 1005; BIOL 4262; BIOL 4090, or 4145 or 4154; and 8-9 hrs chosen from BIOL 3040, 3999, 4020, 4090, 4145, 4154, 4155, 4253, 4254, 4263, 4308, 4600 and 4653

◆ Secondary Education (47 hrs.)

This concentration is part of the *Geaux Teach-Math and Sciences Program*. Students will obtain a degree in biological sciences and, upon completing this concentration, and meeting any additional requirements of the Louisiana Department of Education, will be eligible for certification in the state of Louisiana as teachers in grades 6-12. This concentration requires 23 hrs. of BIOL courses numbered 3000 and higher.

Required courses: BASC 2010, 2011; EDCI 2500, 3550, 4500, 3136, 4006; PHIL 2786; BIOL 3040, 4003, 4005; and 14 hrs. chosen from the approved biological electives

numbered 3000 and higher.

EDCI 2500 will count as one of the General Education social science courses and PHIL 2786 as one of the Approved social science/humanities courses. Students should plan their coursework so that last semester of the senior year can accommodate the 12 hrs. that are required to be taken concurrently (EDCI 4006 and 3136).

CURRICULUM IN MICROBIOLOGY

TOTAL SEM. HRS. • 125

FRESHMAN YEAR SEM. HRS.	
Biological Sciences 1201, 1202, 1208, 1209	8
Chemistry 1201, 1202, 1212.....	8
English 1001.....	3
Mathematics 1550, 1552 or EXST 2201.....	9
General education arts course.....	3
	<u>31</u>

SOPHOMORE YEAR SEM. HRS.	
Biological Sciences 2051, 2153.....	8
Chemistry 2261, 2262.....	6
Three hrs. chosen from 2000-level or above English or Honors courses from the general education humanities list.....	3
English 2000.....	3
Foreign language courses.....	8-10
Approved electives.....	2-0
	<u>30</u>

JUNIOR YEAR SEM. HRS.	
Biological Sciences 3116, 4110.....	6
Chemistry 2001, 2364.....	4
Physics 2001, 2002, 2108, 2109.....	8
Three hrs. chosen from 2000-level or above English or Honors courses from the general education humanities list.....	3
Approved microbiology electives.....	4
General education social sciences course (sophomore level or above).....	3
Approved electives.....	3
	<u>31</u>

SENIOR YEAR SEM. HRS.	
Biological Sciences 4246, 4125 or 4256.....	6-7
Biological Sciences 4087 or 4093 and 4094.....	4-6
Approved microbiology electives.....	6
Social sciences/humanities courses.....	6
General education social sciences course.....	3
Approved electives.....	8-5
	<u>33</u>

Approved microbiology electives must come from the following list and must include two laboratory courses: BIOL 3090, 3999 (3), 4053, 4054, 4084, 4090, 4105, 4106, 4123, 4124, 4125, 4126, 4127, 4132, 4162, 4163, 4190, 4200, 4256, 4400.

DEPARTMENT OF CHEMISTRY

CHAIR • Maverick
OFFICE • 232 Choppin Hall
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WEB SITE • <http://chemistry.lsu.edu>

Students obtain a thorough working knowledge of the fundamentals of chemistry, supplemented by study in physics, mathematics, and other sciences. The curriculum is further enriched by the requirement of a broad basic background in the social sciences and

humanities. The department offers special lecture and laboratory courses for its majors.

Chemistry majors must select one of nine areas of concentration, preferably in their sophomore year. The different concentrations can be grouped according to whether or not they prepare the student for an *active career in chemistry* or for *another profession*, such as medicine, dentistry, or veterinary medicine.

Active Careers in Chemistry • These concentrations are recommended for students who seek a professional career in chemistry or plan to pursue graduate studies in chemistry or a closely related field. The areas of concentration listed in this section are certified by the American Chemical Society. Students successfully completing those concentrations will receive a certificate upon graduation. The *biological chemistry* concentration strengthens the student's knowledge of the chemistry and structure of living systems. The *chemical physics* concentration emphasizes understanding chemical systems based on fundamental physical, mathematical, and theoretical principles. The *chemistry* concentration provides a broad background in chemistry. It is recommended to students who desire a career in chemistry but do not yet know which branch of chemistry best suits them. The *environmental chemistry* concentration is recommended for preparation as a chemical professional or for entrance to graduate study in chemistry, but with an environmental emphasis. The *materials* concentration makes the connection between chemistry and a wide range of practical materials used to fabricate electronic, optical, and other devices. The *polymer* concentration is designed for students with career objectives in the science of synthetic or biological macromolecules, including plastics.

The *secondary education* concentration leads to certification as a chemistry teacher in grades seven through 12.

Chemistry for Other Professions • The *preprofessional* concentration is designed primarily for students who will apply for graduate education in another profession, such as medicine, dentistry, or veterinary medicine. The *chemistry and a second discipline* concentration allows students to develop their interests and abilities in other disciplines outside of chemistry, whether or not graduate education is contemplated. Students may choose second disciplines such as computer science, geology, engineering, business administration, history, foreign languages, political science, and others.

Undergraduate Minor in Chemistry • Requirements are a minimum of 20 semester hours of chemistry, including at least two laboratory courses and at least three semester hours at the 3000 or 4000 level, but excluding CHEM 3900.

CURRICULUM IN CHEMISTRY

TOTAL SEM. HRS. • 128

*With the dean's approval, CHEM 1202, 1212 may be substituted for CHEM 1422, 1431; and CHEM 2261, 2262, and 2364 may be substituted for CHEM 2461, 2462, and 2463.

***The biological chemistry, pre-professional, and secondary education concentrations also require Biological Sciences 1208 and 1209 laboratories.*

FRESHMAN YEAR	SEM. HRS.
Biological Sciences 1201 and 1202**.....	6-8
Chemistry 1201 or 1421; 1422; 1431*.....	8
English 1001.....	3
General education arts course.....	3
Mathematics 1550, 1552.....	9
Approved electives or area requirements.....	3-1
	32

SOPHOMORE YEAR	SEM. HRS.
Chemistry 2001, 2002, 2461, 2462, 2463*.....	12
English 2000.....	3
Mathematics 2057.....	3
Physics 2101, 2102, 2108, 2109.....	8
Approved electives or concentration courses.....	6
	32

JUNIOR YEAR	SEM. HRS.
Chemistry 3491, 3492, 3493.....	9
Six hrs. chosen from 2000-level or above English or Honors courses from the general education humanities list.....	6
Foreign languages courses.....	8-10
General education social sciences course.....	3
General education social sciences course (2000 level or above).....	3
Approved electives or concentration courses.....	3-1
	32

SENIOR YEAR	SEM. HRS.
CHEM 4570.....	3
Approved social sciences/humanities courses.....	6
Approved electives or concentration courses.....	23
	32

Areas of Concentration

◆ Biological Chemistry (22 hrs.)

Students completing this concentration will receive American Chemical Society certification.

BIOL 2051 or 2153, 4093, 4094, 4385; 2 sem. hrs. of CHEM 3900 in an approved biological chemistry project or BIOL 3999 including a comprehensive written report filed with the Department of Chemistry's Undergraduate Office; CHEM 4552, 4553, 4564. *This concentration also requires BIOL 1208 and 1209 to be taken in the freshman year.*

◆ Chemical Physics (25-26 hrs.)

Students completing this concentration will receive American Chemical Society certification.

BIOL 2083; 3 sem. hrs. of CHEM 3900 in an approved physical chemistry project, CHEM 4552, 4553, 3 hrs. of Chemistry electives; 3 hrs. CSC programming course; MATH 2065, 2085 or 2090; 6 hrs. of Physics electives. *Chemistry electives:* CHEM 4581, 4594, 4596, 4597

Physics electives: PHYS 2221, 2231, 2411, 4123, 4125, 4141, 4142, 4251, 4261

◆ Chemistry (24 hrs.)

Recommended for preparation as a chemical professional or for entrance to graduate study in chemistry. Students completing this concentration will receive American Chemical Society certification. BIOL 2083; 2 sem. hrs. of CHEM 3900 in an approved chemistry project, CHEM 4552, 4553, 4564, 4571 or 4572, 6 sem. hrs. of Chemistry electives; 3 sem. hrs. CSC programming course. *Chemistry electives:* CHEM 3900 (additional hrs.), 4010, 4011, 4150, 4160, 4561, 4562, 4563, 4571, 4572, 4581, 4594, 4597

◆ Chemistry and a Second Discipline (21 hrs.)

2 sem. hrs. of CHEM 3900, CHEM 4552, 4553; 15 sem. hrs. of 2nd Discipline Electives. *Second Discipline Electives:* Courses should form a coherent sequence in one department with at least 3 courses numbered 3000 or above. If courses are from more than one department, student must obtain a minor in that discipline. Selection of the concentration courses should be completed and approved by the department and dean's office by the end of the sophomore year.

◆ Environmental Chemistry (21 hrs.)

Students completing this concentration will receive American Chemical Society certification.

BIOL 2083; 2 sem. hrs. in CHEM 3900 in an approved environmental chemistry project, CHEM 4150, 4552, 4553; 3 hrs. CSC programming course; 6 hrs. of Environmental electives. *Environmental Electives:* EVEG 4145, ENVS 4500, 4477, GEOL 4043, 4081; OCS 4040, 4165

◆ Materials (26 hrs.)

Students completing this concentration will receive American Chemical Society certification.

BIOL 2083; 2 sem. hrs. of CHEM 3900 in an approved materials chemistry research project, CHEM 4010, 4552, 4553, 4564; 3 hr. CSC programming course; ME 2733, 3701, 4723

◆ Polymers (23 hrs.)

Students completing this concentration will receive American Chemical Society certification.

BIOL 2083; 2 sem. hrs. of CHEM 3900 in an approved polymer research project, CHEM 4010, 4011, 4552, 4553, 4564; 3 hr. CSC programming course

◆ Pre-professional Chemistry (21 hrs.)

BIOL 4093, 4094, 4385; CHEM 4552, 4553; 8 hrs. from pre-professional electives (21 sem. hrs.)

Pre-professional Electives: BIOL 2051, 2153, 3156, 3152 or 4160; CHEM 3900 or BIOL 3999 in an approved project *This concentration also requires BIOL 1208*

and 1209 to be taken in the freshman year.

◆ Secondary Education (30 hrs.)

This concentration is part of the Geaux Teach-Math and Sciences Program. Students will obtain a degree in chemistry and, upon completing this concentration and meeting any additional requirements of the Louisiana Department of Education, will be eligible for certification in the state of Louisiana as teachers in grades 6-12.

Required courses: BASC 2010, 2011; EDCI 2500, 3550, 4500, 3136, 4006; PHIL 2786; CHEM 4003, 4005; BIOL 2083; 3 hrs. of CHEM electives.

Chemistry electives: CHEM 4010, 4011, 4150, 4160, 4552, 4553, 4561, 4562, 4563, 4564, 4571, 4572, 4581, 4594, 4597

In addition, the student must take EDCI 2500 as one of the General Education social science courses and PHIL 2786 as one of the approved social science/humanities courses. Students should plan their coursework so that the last semester of the senior year can accommodate the 12 hrs. that are required to be taken concurrently (EDCI 4006 and 3136). BIOL 1208 and 1209 labs should be included in the freshman year.

DEPARTMENT OF COMPUTER SCIENCE

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The mission of the program is to instill in the student theoretical and applied practical skills needed to solve challenging problems using a computer. Graduates of the program use such concepts as abstraction and complexity analysis to solve innovative problems or to orchestrate evolutionary change as applied to the development of software. The program provides a strong foundation such that students can build on their skill sets as the field rapidly evolves.

The program objectives for the BS degree candidate in computer science are:

- to provide students with basic knowledge, both theoretical and applied, in core areas of computer science
- to enable students to develop skills in system and software design and to be able to apply these skills to solve diverse problems
- to train students to become proficient in implementing algorithms in a variety of programming languages
- to enable students to develop skills for working as part of a team on assignments or research projects
- to enable students to present their work effectively in oral and written form
- to provide students with an awareness of ethical issues and the global impacts of computing technologies on society
- to prepare students for lifelong study including graduate study and/or successful professional careers

Upon graduation, graduates should be able to:

- Use their knowledge in core and emerging areas in computer science to solve diverse computational problems
- Use their knowledge of system and software design to formulate a solution that meets the design requirements and specifications for diverse applications
- Demonstrate proficiency in implementing algorithms in at least one higher-level programming language
- Work effectively in a team environment
- Demonstrate proficient oral and written communication skills
- Demonstrate an understanding of ethical issues and issues relating to the impacts of computing technologies on society
- Understand the importance of continual study in the field, and find employment with a business and/or research organization or acceptance into graduate school for further academic pursuits

The undergraduate computer science curriculum is structured around basic courses in computer science and mathematics. The curriculum is designed to allow a flexible plan of study via the mandatory selection of one of three concentrations: *networking, software engineering, and computer science and a second discipline*. A concentration should be declared at the beginning of the sophomore year. If the second discipline concentration is selected, an approval form must be completed and approved by the department and the dean's office.

Computer science students will not receive degree credit for the following courses: CSC 4602; ELRC 4006; EXST 2000, 2095, 2201, 3001, 4001; ISDS 2000, 2001, 3001, 3002, 3107; PSYC 2011, 4111; and SOCL 2201. Computer science students may not receive credit for both IE 3302 and ISDS 2000, or for both IE 4510 and ISDS 2001.

An undergraduate *minor in computer science* is available. Required courses are CSC 1253, 1254, 2259, 3102, 3501, and three hrs. of computer science electives 3000-level and above; and 4101 or 4103 (total of 21 hours).

CURRICULUM IN COMPUTER SCIENCE

TOTAL SEM. HRS. • 123

¹See college list of approved general education natural sciences courses.

²If a 10-hour foreign language sequence is taken, the extra two hours will be counted toward approved electives.

³Students who have completed the prerequisites may substitute MATH 3355 or EE 3140 or EXST 4050.

⁴The computer science senior elective (three semester hours) must be an approved 4000-level computer science course.

FRESHMAN YEAR	SEM. HRS.
Computer Science 1200, 1350, 1351	7
English 1001	3
Three hrs. chosen from 2000-level or above English or Honors courses from the general education humanities list	3

Mathematics 1550, 1552.....	9
Biological or physical sciences sequence ¹	6
General education humanities communication studies course	<u>3</u>
	31

SOPHOMORE YEAR	SEM. HRS.
Computer Science 2259, 3102, 3380	9
Computer science elective 2000-level or above or computer science area requirement	3
Three hrs. chosen from 2000-level or above English or Honors courses from the general education humanities list.....	3
English 2000.....	3
Mathematics 2090.....	4
General education biological or physical sciences sequence with lab ¹	8
General education social sciences course.....	3
	<u>33</u>

JUNIOR YEAR	SEM. HRS.
Computer Science 2262, 3501, 4101	9
Computer science electives 3000-level or above or computer science area requirement	3
Foreign language courses ²	8
Industrial Engineering 3302 ³	3
General education social sciences course at the sophomore level or above	3
Approved elective or area requirements.....	<u>6</u>
	32

SENIOR YEAR	SEM. HRS.
Computer science 4103, 4330.....	6
Computer science senior elective ⁴ or computer science area requirement.....	3
Approved electives or area requirements	12
General education arts courses.....	3
Social sciences/humanities course	<u>3</u>
	27

Areas of Concentration

◆ Computer Science and Second Discipline (24 hrs.)

In addition to three credit hours each from a CSC 2000-level or above elective, a CSC 3000-level or above, and a CSC senior elective, an approved second discipline concentration consists of 15 sem. hrs. of electives in one area outside of the Department of Computer Science. All courses must be taken from a single department except when a university minor is obtained. Courses in the second area are to form a coherent sequence; where possible students should take courses required of a major in that department. Ordinarily, there should be at least two courses numbered 3000 or above. Courses chosen from Information Systems and Decision Sciences must be numbered ISDS 3100 or above. The approval form must be submitted no later than the sophomore year with the consent of the departmental advisor and the dean's office.

◆ Distributed Systems and Networking (18 hrs.)

Required courses (9 hrs.)—CSC 4304, 4501, 4999
Approved area electives (9 hrs.)—no more than two elective courses from the same

department; EE 4610, 4625, 4660; IE 4426; ISDS 4111, 4120, 4123 or CSC 4601; MATH 3355, 4023, 4025, 4325, 4470; other electives subject to approval

◆ Software Engineering (18 hrs.)

Required courses (9 hrs.)—CSC 2000-level or above area elective; CSC 4351, 4402
Approved area electives (9 hrs.)—CSC 4304, 4370, 4890; EE 4760; IE 4461; ISDS (max. of 6 hrs.) from 4110, 4111, 4112, 4113, 4114, 4125, 4141, 4501, 4502, 4511; other electives subject to approval

DEPARTMENT OF GEOLOGY & GEOPHYSICS

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The geology curriculum prepares undergraduates for graduate study in geology and geophysics and related fields and for a wide range of professional careers, including teaching, research, resource exploration and development, and environmental management and remediation. The curriculum has three areas of concentration: geology, environmental geology, and geophysics.

Geology students in the geology and environmental concentrations follow the same basic curriculum during the first five semesters of study. Students during this time receive a firm foundation in mineralogy, petrology, structural geology, and sedimentology, as well as basic courses in biology, chemistry, physics, and mathematics. The geophysics concentration has additional emphasis on mathematics and physics. Emphasis for all concentrations is on fundamental geologic processes operating on and within the earth. Laboratory and field studies are integrated into the curriculum at all levels and include a six-week field geology course at the department's permanent field camp in the Colorado Front Range.

The curriculum is designed to leave much of the final three semesters of study relatively unstructured so that students, with the guidance and approval of the department, can develop a program of advanced course work most appropriate to their area of concentration and career objectives. Students selecting the *geology and environmental geology concentrations* take, in addition to the first five semesters of courses, history of the biosphere and nine hours of geology 4000-level electives. Students selecting the *environmental geology* area of concentration take physical hydrogeology. Students selecting the geophysics area of concentration take additional mathematics and physics courses as well as plate tectonics, and well-logging in petroleum engineering, and twelve hours of geology courses at the 4000 level. All three areas of concentration are designed to provide students with a sound foundation in basic geology and to prepare them for entry into a graduate program or directly into a professional career.

Graduate and undergraduate majors in geology must pay a \$35 field service fee each semester. Students not majoring in geology who schedule courses requiring field trip fees will be assessed a *pro rata* part of the amount above as determined by the department chair. Part-time students enrolled in seminar courses only and students registered for thesis or dissertation only are exempt from the fee. Additional information concerning fees for field geology courses is available from the Geology Field Camp Director, Department of Geology & Geophysics.

An undergraduate *minor in geology* is available (17 hrs.). Required courses are GEOL 1001, 1003, 1601, 1602. At least three of the additional hours must be taken at the 3000 or 4000 level (excluding GEOL 3909) and on this campus. Honors courses offered are Geology 1002 and 1004.

CURRICULUM IN GEOLOGY

TOTAL SEM. HRS. • 123

* See area requirements.

FRESHMAN YEAR	SEM. HRS.
General Education art course	3
Chemistry 1201, 1202, 1212	8
Geology 1001, 1003, 1601, 1602	8
Mathematics 1550, 1552	9
English 1001	3
	<u>31</u>

SOPHOMORE YEAR	SEM. HRS.
Approved electives	3-4
Biological Sciences 1201, 1202	6
English 2000	3
Three hrs. chosen from 2000-level or above English or Honors courses from the general education humanities list	3
Geology 2081	3
Area of concentration course	3
General education social sciences courses (one course must be at the sophomore level or above)	6
Physics 1201 or 2101, and 1208 or 2108	5-4
	<u>32</u>

JUNIOR YEAR	SEM. HRS.
Approved electives	0-3
Three hrs. chosen from 2000-level or above English or Honors courses from the general education humanities list	3
Foreign Language courses	10-8
Approved Soc. Sci./Humanities course	3
Geology 3032	3
Geology 3041	3
Geology 3071	3
Physics 1202 or 2102 or 2002, and 1209 or 2109	5-4
	<u>30</u>

SUMMER (FOLLOWING JUNIOR YEAR)	SEM. HRS.
Geology 3666	6
	<u>6</u>

SENIOR YEAR	SEM. HRS.
Area of concentration courses	9-22
Approved electives	15-2
	<u>24</u>

Areas of Concentration

◆ Environmental Geology (15 hrs.)

Recommended as preparation for a career in environmental geology and related fields or entrance to graduate study.

Required Courses (15 hrs.): GEOL 2061, 4182; nine hours of geology electives that must be chosen from GEOL 4023, 4043, 4062, 4064, 4081, 4084, 4083, 4085 and 4164, of which three hours must be chosen from GEOL 4043, 4062, 4084, and 4085.

The following courses are useful free electives in environmental geology: GEOL 4165, GEOG 4023, 4041, 4042, 4046, 4047, 4048, 4070, 4082, 4083; CHEM 4150; OCS 3103, 4040; RNR 4025, 4151, and 4900; ENVS 4000-level courses.

◆ Geology (12 hrs.)

Required Courses (12 hrs.): GEOL 2061; nine hours of GEOL 4000-level courses.

◆ Geophysics (24-25 hrs.)

Recommended as preparation for a career in geophysics and related fields or entrance to graduate study.

Sophomore Year • MATH 2065 or 2090 (3-4 sem. hrs.)

Junior Year • PETE 3036 (3 sem. hrs.)

Senior Year • GEOL 4066; PHYS 2203 and six hours of geology electives that must be chosen from GEOL 4062, 4064, and 4068; and six additional hours of 4000-level geology electives (18 sem. hrs.)

The following courses are useful free electives in geophysics: GEOL 2061; GEOG 4048

DEPARTMENT OF MATHEMATICS

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Students *majoring in mathematics* may choose from several areas of concentration. (See "Areas of Concentration" below.) Each concentration requires the following lower division mathematics courses (totaling 22 sem. hrs.): 1550 (or 1551), 1552 (or 1553), 2057 (or 2058), 2060, 2085 (or 2086), and two courses from 2020, 2025, 2030. Each concentration requires additional courses (see below) and a capstone experience. Credit for mathematics courses numbered below 1550 will not be counted toward the required credits for mathematics majors.

Those students who are planning to pursue a graduate degree in mathematics are strongly advised to include MATH 4031, 4032, 4035, 4153, and 4200 in their curriculum even if they do not select the mathematics area of concentration.

The requirements for an undergraduate *minor in mathematics* are as follows: MATH

1550 (or 1551), 1552 (or 1553), 2057 (or 2058), 2085 (or 2086 or 2070 or 2090), and at least nine semester hours at the 3000- or 4000-level, but excluding MATH 3903, 3998, and 4005.

Honors courses offered in mathematics are MATH 1551, 1553, 2058, and 2086. The honors option is available to students in upper division mathematics courses. (See "Honors Option" in the Honors College section in this catalog.) A special curriculum leading to the BS degree in mathematics with departmental honors is offered. Details are available from the departmental office.

CURRICULUM IN MATHEMATICS

TOTAL SEM. HRS. • 120

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education literature and social sciences requirements.

+See college approval list of natural science courses. If first science course sequence is taken from the physical sciences, the second course sequence must be taken from the life sciences, and vice versa.

FRESHMAN YEAR	SEM. HRS.
English 1001	3
Two-course sequence in a foreign language	8-10
Mathematics 1550/1551, and 1552/1553	9
General education natural science course sequence with lab(s)	8
	<u>28-30</u>

SOPHOMORE YEAR	SEM. HRS.
English 2000	3
Social science or humanities course	3
Three hrs. chosen from 2000-level or above English or Honors courses from the general education humanities list	3
Select two courses from Mathematics 2020, 2025, and 2030	6
Mathematics 2057, 2060, 2085	7
General education social science	3
General education natural science course sequence in alternate area+	6
	<u>31</u>

JUNIOR YEAR	SEM. HRS.
Area requirements	12
Three hrs. chosen from 2000-level or above English or Honors courses from the general education humanities list	3
General education social sciences course (2000 level or above)	3
Social science or humanities course	3
Approved elective or area requirements	9
	<u>30</u>

SENIOR YEAR	SEM. HRS.
Mathematics courses area requirements	6
General education arts course	3
Approved electives or area requirements	22-20
	<u>31-29</u>

Areas of Concentration

◆ Actuarial Science (38 hrs.)

ACCT 2001, ECON 2030, FIN 3715, EXST

2201, 3201, MATH 3355, 4050, 4056, 4058; Select one course from MATH 4020, MATH 4997, or EXST 4087; Select two courses from MATH 4023, 4025, 4031, 4032, 4035, 4065, 4066, or 4153.

◆ Applied/Discrete Mathematics (21 hrs.)

MATH 4023, 4025, 4171, 4172, and either 4020 or 4997. Select two courses from MATH 3355, 4024, 4027, 4065, 4066, 4153, 4181, 4340, 4470.

◆ Computer Science (36 hrs.)

Computer Science 1250, 1253, 1254, 2252. MATH 3355, 4020, 4023, 4027. Select two courses from MATH 4024, 4025, 4056, 4065, 4066, 4171, 4325, 4340, 4470. Select six hours from Computer Science 2280 and courses numbered above 3000

◆ Mathematical Statistics (29 hrs.)

EXST 2201, 3201, 4012; MATH 3355, 4031, 4056; select two courses from MATH 4035, 4058, 4153; select one course from either MATH 4020, MATH 4997, or EXST 4087.

◆ Mathematics (21 hrs.)

MATH 4200, 4031, and either 4032 or 4035. (9 hours)

Either MATH 4020 or 4997. (3 hours)
Select three courses from MATH 3355, 4027, 4032, 4035, 4036, 4039, 4153, 4065, 4171, 4172, 4181, 4201, 4325, 4340, 4345, 4470, 4700, 4997, 4999. (9 hours)

At most six credit hours of the 21 hours in the concentration may be from MATH 4020, 4997 or 4999.

◆ Secondary Education (48 hrs.)

This concentration is part of the Geaux Teach–Math and Sciences Program. Students will obtain a degree in mathematics and, upon completing this concentration and meeting any additional requirements of the Louisiana Department of Education, will be eligible for certification in the state of Louisiana as teachers in grades 6-12.

Required courses: BASC 2010, 2011; MATH 3002, 3003, 3355, 4005, 4031, 4019; EDCI 2500, 3550, 4500, 3136, 4006; PHIL 2786; BIOL/CHEM/PHYS 4005 (42 hrs.)
Select three hrs. from MATH 4200, 4023, 4181. Select three hrs. from MATH 4024, 4027, 4032, 4036, 4039, 4056, 4065, 4153, 4171, 4172, 4201, 4325, 4340, 4345, 4470, 4700, 4999.

EDCI 2500 will count as one of the General Education social science courses and PHIL 2786 as one of the approved social science/humanities courses. Students should plan their coursework so that the last semester of the senior year can accommodate the 12 hrs. that are required to be taken concurrently (EDCI 4006 and 3136).

DEPARTMENT OF PHYSICS & ASTRONOMY

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An undergraduate *minor in physics* is available. Required courses are: PHYS 1201, 1202, 1208, 1209 (or PHYS 2101, 2102, 2108, 2109), and PHYS 2221, and three additional courses, for a total of 20-22 hours. The three additional courses, at least one of which must be at the 4000 level, must be chosen from the following: PHYS 2203, 2231, 2411, 4098, or any three credit hour PHYS or ASTR course numbered from 4100 to 4299.

Undergraduate students on this campus may choose to *minor in nuclear science*. The following conditions must be met:

- Approval from the Department of Physics & Astronomy
- At least 15 credit hours in astronomy, nuclear science, medical physics and health physics, and physics courses, 12 of which must be taken from the following: MEDP 2051, 4111, 4331, 4332, 4351, 4995; NS 4570; and PHYS 2203, 2207, 4098, 4271

The Department of Physics & Astronomy offers master's degrees for medical physics studies. For additional information, see the section, "Graduate School and Professional Programs" in this catalog.

CURRICULUM IN PHYSICS

TOTAL SEM. HRS. • 129

Students planning to enter graduate school are encouraged to select a modern foreign language.

FRESHMAN YEAR	SEM. HRS.
Three hrs. chosen from 2000-level or above English or Honors courses from the general education humanities list.....	3
Mathematics 1550, 1552.....	9
Physics 1201, 1202, 1208, 1209	10
English 1001	3
General education arts course	3
Approved electives or area requirements	3
	31

SOPHOMORE YEAR	SEM. HRS.
English 2000.....	3
Three hrs. chosen from 2000-level or above English or Honors courses from the general education humanities list.....	3
Mathematics 2057.....	3
Physics 2203, 2207, 2221	7
Biological sciences 1001 and 1002 or 1201 and 1202	6
Computer science programming course.....	3
General education humanities course.....	3
Approved electives or area requirements	4
	32

JUNIOR YEAR	SEM. HRS.
Foreign language courses.....	8-10
Physics 2231, 2411, 4098, 4132	12
General education social sciences course.....	6
Approved electives or area requirements	8-6
	34

SENIOR YEAR	SEM. HRS.
Physics 4125	3
General education social sciences/humanities course	3
Approved electives or area requirements.....	26
	32

Areas of Concentration

◆ Astronomy (28 hrs.)

Required Courses (28 hrs.) • ASTR 1101, 1102, 4221, 4222, 4261; MATH 2090; PHYS 4123, 4135, 4141

◆ Medical Physics (34 hrs.)

Required Courses (34 hrs.) • CHEM 1201, 1202, 1212, 2060; *MATH 2090; BIOL 2160; MEDP 2051, 4111, 4331, 4332, 4351; KIN 2500.
* CHEM 2261 may be substituted for CHEM 2060.

◆ Physics (28 hrs.)

Required Courses (28 hrs.) • CHEM 1201, 1202; MATH 2090; PHYS 4123, 4141, 4142, 4399, and two physics electives (4000 level or above)—with permission, a 4000-level mathematics course may be substituted for one

◆ Physics and a Second Discipline (28 hrs.)

Required Courses (28 hrs.) • MATH 2090; at least 24 sem. hrs. from an approved discipline outside of the Department of Physics & Astronomy; any second area may be chosen with consent of the dean and department advisor. The approved area form must be submitted no later than the sophomore year.

◆ Secondary Education (38 hrs.)

This concentration is part of the Geaux Teach–Math and Sciences Program. Students will obtain a degree in physics and, upon completing this concentration and meeting any additional requirements of the Louisiana Department of Education, will be eligible for certification in the state of Louisiana as teachers in grades 6-12.

Required courses (38 hrs): BASC 2010, 2011; EDCI 2500, 3550, 4500, 3136, 4006; PHIL 2786; PHYS 4005; MATH 2090; ASTR 1101, 1102 or CHEM 1201, 1202; and two PHYS 4000 electives.

EDCI 2500 will count as one of the General Education social science courses and PHIL 2786 as one of the approved social science/humanities courses. Some general education courses are taken in different years than in the standard curriculum. Students should plan their coursework so that the last semester of the senior year can accommodate the 12 hrs. that are required to be taken concurrently (EDCI 4006 and 3136). *PHYS 4125 and 4132 are not required for this concentration, but may be used as physics 4000 electives.*

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Business

ELI JONES, *E. J. Ourso Distinguished Professor of Business Administration and Dean*

ANDREA L. HOUSTON, *Marjory B. Ourso Center for Excellence in Teaching Professor; Executive Associate Dean*

HELMUT SCHNEIDER, *Ourso Family Distinguished Professor of Information Systems; Associate Dean Research and Economic Development*

EDWARD F. WATSON III, *E. J. Ourso Professor of Business Analysis; Flores MBA Program Director and Interim Associate Dean for Graduate Programs*

CHRISTOPHER E. DENSTEL, *Assistant Dean for Financial Services*

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The E. J. Ourso College of Business offers specialized professional training in several areas of business in addition to a program of general business administration. The curricula of the various departments are shown in the following chart.

Each curriculum is constructed to ensure that students receive a broad general education and a sound foundation in the basic areas of business knowledge. At the same time, students may obtain limited specialization in a particular area of business. The objective of the college is to provide training in the functional fields of business administration so students will be qualified to hold positions of leadership, trust, and responsibility in business and industry.

The E. J. Ourso College of Business is a member school of the American Assembly of Collegiate Schools of Business (AACSB). Its undergraduate programs have been accredited continuously by the AACSB since 1931.

MISSION OF THE COLLEGE

The statement of mission and objectives below was developed by the E. J. Ourso College of Business's strategic planning committee and was approved by the faculty of the college in the spring of 1993.

The mission of the E. J. Ourso College of Business at Louisiana State University is to be the provider of premier business, management, and economic education in the state and a leader in the southeastern United States. This mission stems from LSU's position as the state's flagship University. The college is responsible for achieving excellence in the development, dissemination, and application of knowledge about the functioning of public, private, and nonprofit organizations in a global environment.

The *teaching mission* of the college is to produce outstanding graduates by offering comprehensive, state-of-the-art bachelor's, master's, doctoral, and continuing professional education programs in business, economics, and management of public and nonprofit organizations. The college seeks to provide its students with unique opportunities for personal and professional growth based on ethical awareness and an ability to think innovatively.

The college is equally committed to its *research mission*: to conduct and disseminate significant basic and applied research studies in entrepreneurship, organizations, public policy, and the economy. Such research contributes to and transcends the teaching mission of the college by advancing the frontiers of knowledge.

The college has a *service mission* to the University, outside constituencies, and the community of scholars. It seeks to fulfill this mission by contributing to the University's effective functioning, by interacting with business and government to foster the state's and nation's economic development, by serving in professional associations, and by developing and managing rigorous academic journals.

ADMISSION REQUIREMENTS

Students in good standing may apply for admission to the E. J. Ourso College of Business. Admission is competitive and will be granted on a space-available basis. For each admission cycle, the college establishes admission criteria that limit student enrollment to a number consistent with the available space. Profiles of students who were admitted in the previous admission cycle are available upon request. Students who are denied admission may reapply for admission in a subsequent semester.

Entering Freshmen

Students interested in admission to the E. J. Ourso College of Business as freshmen should apply to the college at the same time that they apply to LSU. A student must first be admitted to LSU to be considered for admission to the business college. Students must indicate they wish to be admitted as freshmen to the E. J. Ourso College of Business on their LSU application by selecting a business major as their first choice. Information about students admitted as freshmen in the previous academic year, including number of freshmen admitted and a student profile is available upon request.

Students admitted as freshmen must register for and successfully complete BADM 1000 in their first semester to remain in the college. In addition, students admitted as freshmen must successfully complete the Pre-Business Core (English 1001, Math 1021 and 1431, Economics 2000, ISDS 1102, and Accounting 2001) with a "C" or better during their freshman year. Students who place out or test out of any of the Pre-Business Core classes will be given credit for successfully completing those classes. Freshmen who earn less than a "C" on any Pre-Business Core course will be put on *college probation*. Freshmen are subject to all other maintenance standards in order to continue as a business major.

Transfer Students and Continuing Students

Students who successfully transfer to LSU from other universities and LSU students not in the E. J. Ourso College of Business may apply for admission to the college. These students will be admitted on a space-available basis. Information about students admitted as continuing or transfer students in the previous academic year, including the number admitted and a student profile is available upon request. Preference will be given to students with a minimum number of "W" grades and to students who have completed less than 60 hours of university course work.

Students in good standing at LSU may apply to the E. J. Ourso College of Business once they have successfully completed the following requirements:

- Complete a minimum of 30 hours of university course work.

E. J. OURSO College of Business • UNDERGRADUATE DEGREES

Departments	Curricula	Degree
Accounting	Accounting	Bachelor of Science
Economics	Economics	
	International Trade & Finance	
Finance	Finance	
Information Systems & Decision Sciences	Information Systems and Decision Sciences	
William W. & Catherine M. Rucks Department of Management	Management	
Marketing	Marketing	
Interdepartmental Program	General Business Administration	

- Complete the Pre-Business Core classes (English 1001, Math 1021 and 1431, Economics 2000, ISDS 1102, and Accounting 2001) with a "C" or better. Students who place out or test out of any of the Pre-Business Core classes will be given credit for successfully completing those classes.
- Maintain a minimum cumulative 3.0 gpa.
Continuing and transfer students must register for and successfully complete BADM 1000 within one academic year of their admission to the college to remain in the college.

MAINTENANCE REQUIREMENTS

Continued enrollment in the E. J. Ourso College of Business is dependent upon satisfying the following requirements:

- Maintain a cumulative gpa of 2.5 on all university course work.
- Maintain a minimum 2.5 business gpa.
- Maintain satisfactory academic progress towards the completion of the degree.

Mandatory Advising

A student will be **required** to meet with an academic advisor in the Dean's Office for the following reasons:

- The student's cumulative gpa falls below a 3.00 at the end of any academic semester.
- The student's business gpa falls below a 3.00 at the end of any academic semester.

- The student fails to make satisfactory academic progress towards the completion of the degree.

College Probation

A student will be placed on college probation and will be required to meet with an academic advisor in the dean's office for the following reasons:

- The student's cumulative gpa falls below a 2.5 at the end of any academic semester.
- The student's business gpa falls below a 2.5 at the end of any academic semester.
- The student fails to make satisfactory academic progress towards the completion of the degree.

A minimum 12-hour load is expected in the probationary semester. Students on *college probation* will have a college hold placed on their registration which will require them to schedule an appointment with a college academic advisor to register for classes for the next semester. The registration flag will be automatically removed after the student is taken off college probation. Students will be dropped from the college if they are not removed from college probation after one probationary semester.

Removal from the College

Students will be *dropped* from the E. J. Ourso College of Business for the following reasons:

- Students placed on college probation and

who fail to improve their gpa to the minimum maintenance standard after one probationary semester. Minimum maintenance standards are a 2.5 cumulative gpa and a 2.5 business gpa.

- Students placed on college probation for failure to make satisfactory academic progress and who fail to make satisfactory academic progress during the probationary semester.

Readmission to the College

Students, who have been dropped from the E. J. Ourso College of Business for any reason, may reapply for admission to the college. Students who were not registered at LSU for the preceding regular semester must also file a formal application for readmission. All students applying for readmission will be subject to the admission requirements at the time of the readmission. Readmission to the E. J. Ourso College of Business is not automatic. Students seeking readmission are encouraged to schedule an appointment with a college academic advisor.

DEGREE REQUIREMENTS OF THE COLLEGE

The degree of Bachelor of Science will be conferred on E. J. Ourso College of Business students who complete one of the approved curricula with a 2.5 or better grade point average on all work taken and a 2.5 or better gpa on all business courses. The requirements above

apply both to the total course work taken and to LSU course work.

The last 30 semester hours presented for the degree must be taken *in residence* in the E. J. Ourso College of Business on the LSU campus.

The AACSB *Standards for Accreditation* state that “the school should require that at least 50 percent of the business credit hours required for the business degree be earned at the degree-awarding institution.”

The student must complete a minimum of 121 semester hours in accordance with the following regulations.

Academic Work: 121 Semester Hours

All 3000/4000 level business courses, except Accounting 3001, are restricted to students who have completed 60 hours of college-level course work. Many 3000/4000 level business courses have prerequisite requirements. Students are responsible for ensuring they have completed the necessary course prerequisites prior to registration for a course.

All business majors must complete six hours of Communication Studies courses. Students are required to take Communication Studies 1061 and one of the following courses: Communication Studies 2010, 2061, 2064, 4101, 4113, or 4114.

General Education Requirements for a Degree in Business

- *English Composition (6 hours)*—English 1001 with a grade of “C” or better; and English 2000 with a grade of “C” or better
- *Analytic Reasoning (6 hours)*—Mathematics 1021 and 1431; Mathematics 1550 may be substituted for Mathematics 1431. Students should refer to their chosen curriculum to determine the specific mathematics requirements. No student may receive more than nine semester hours of mathematics courses numbered below 1550.
- *Natural Sciences (9 hours)*—Students must take three General Education Natural Science courses, two of which must be in a two semester sequence from the approved list of General Education Natural Science courses. A minimum of six hours must be in a physical or a life science course sequence and the remaining hours must be in an area other than that previously selected (i.e., both physical and life sciences must be taken). See those courses listed as General Education Natural Science courses in the catalog.
- *Arts (3 hours)*—See those courses listed as General Education Arts courses in the catalog.
- *Humanities (9 hours)*—See those courses listed as General Education Humanities courses in the catalog.
- *Social Sciences (6 hours)*—Economics 2000 and 2010.

Electives

Students may choose any degree credit courses offered by the University consistent with their specific degree requirements. However, no more than six hours may be selected from kinesiology activity courses, band, chorus, or music skills courses. Up to six

semester hours in ROTC may be used as electives in all business curricula.

Pass-Fail Option

The pass-fail grading option is limited by the college to courses that are electives in a student’s specific degree program.

Transfer of Credit from Other Institutions

In the E. J. Ourso College of Business, transfer credits accepted by the Office of Undergraduate Admissions shall be valid for degree credit only to the extent to which they represent courses acceptable in the curricula of the college. Transfer credits in junior and senior business courses will be accepted only if taken in programs accredited by The Association to Advance Collegiate Schools of Business International (AACSB). The extent to which credit earned in other colleges and universities is accepted toward fulfilling degree requirements is determined by the office of the dean.

Transfer credit in which grades of “D,” “F,” or “U” have been earned is not accepted toward fulfilling the degree requirements. Students enrolled in this college who wish to obtain credits from other colleges or universities (including other campuses of the LSU System) and who plan to use such credits toward degree requirements should obtain *prior approval* in writing on a course-specific basis from the dean’s office.

Correspondence Credit

Students must have the permission of the dean of the college prior to scheduling correspondence course work.

Students who are taking classroom courses at the University may not take courses through correspondence study. Students not enrolled in classroom courses during a given semester may be approved for courses by correspondence through the dean of the E. J. Ourso College of Business (3304 Patrick F. Taylor Hall) and may enroll at the Office of Independent & Distance Learning (1225 Pleasant Hall; 578-3171). Enrollment in correspondence courses must be completed by the final date for adding courses for any semester, including summer term.

The deadline for completion of all correspondence course work is the last day of final examinations for the semester during which the student is enrolled. As a maximum of three lessons per week can be submitted in a course, the time required to submit all of the lessons in a three-credit correspondence course is at least six weeks.

Correspondence study is restricted to elective courses. No more than 12 semester hours of correspondence credit may be applied toward the degree requirements of the college. A student must complete all correspondence study before registering to receive a degree and no degree may be awarded during a semester in which a student is enrolled in correspondence study.

DIRECTED STUDY COURSES

If an independent study course is taken within the college, a written description of the project to be undertaken in the course must be submitted to the department chair and dean for approval, prior to registration in the course.

STUDENT RESPONSIBILITY

Students in this college bear final responsibility for selection of their academic programs and adherence to all published regulations and requirements of the college and the University.

GRADUATION REQUIREMENTS

Each student must see a counselor for a final degree checkout during the semester prior to the semester in which the degree is to be awarded. Students who complete degree requirements during spring intersession should plan to graduate in August and must inform the dean’s office of this intention. Such students should see a counselor and register in the summer for “degree only.” Students who complete degree requirements during winter intersession should plan to graduate in May and must inform the dean’s office of this intention. Such students should see a counselor and register in the spring semester for “degree only.” Students who complete degree requirements during summer intersession should plan to graduate in December and must inform the dean’s office of this intention. Such students should see a counselor and register in the fall semester for “degree only.”

Students who have completed courses at another college or university must have an official transcript covering this work on file in the Office of the University Registrar before registering for the degree.

BETA GAMMA SIGMA

Membership in *Beta Gamma Sigma* is one of the highest forms of recognition at the national level that a student can receive in an undergraduate or master’s program in business or management. To be eligible for membership, a student must rank in the upper 7 percent of the junior class, upper 10 percent of the graduating senior class, or upper 20 percent of the graduating master’s class. Members are elected to membership and publicly recognized during the fall and/or spring term.

Beta Gamma Sigma has three purposes: to encourage and reward scholarship, to promote advancement of education in business, and to foster integrity in the conduct of business operations.

PHI KAPPA PHI

Founded in 1897 at the University of Maine, Phi Kappa Phi is the nation’s oldest, largest, and most selective honor society for all academic disciplines. Its chapters are on nearly 300 campuses in the United States, Puerto Rico, and the Philippines. Each year, approximately 30,000 members are initiated. Some of the organization’s more notable members include former President Jimmy Carter, writer John Grisham, NASA astronaut Wendy Lawrence, and Netscape founder James Barksdale. The LSU chapter was founded in 1930 as the 43rd

chapter in the nation.

The mission of Phi Kappa Phi is to recognize and promote academic excellence in all fields of higher education and to engage the community of scholars in service to others. Phi Kappa Phi is unique because it recognizes superior scholarship in *all academic fields*, rather than restricting membership to a limited field. Juniors in the top 7.5 percent and seniors and graduate students in the top 10 percent of their classes may be invited to become members of Phi Kappa Phi. New LSU Phi Kappa Phi members are initiated and honored in the spring semester each year and wear identifying ribbons on their academic gowns at commencement exercises. Additional information about the Society may be found at www.phikappaphi.org.

REQUIREMENTS FOR A SECOND BACHELOR'S DEGREE

To receive a second bachelor's degree from this college, students must:

- reapply for and gain admission to the college;
- complete two semesters in residence in the college;
- meet all stated requirements for a BS degree in the college;
- earn 30 additional hours of course work at the 3000 level or above, except when
 - ◆ the second degree program requires a 2000 level or below course, or
 - ◆ the course is in a language other than the student's native language.

MINOR FIELD REQUIREMENTS (Optional)

Students in the E. J. Ourso College of Business are not required to pursue a minor. Minors may be selected from any minors approved by the Faculty Senate Courses and Curricula Committee and the Office of Academic Affairs with the exception of the Business Administration Minor. Students in the E. J. Ourso College of Business must obtain permission from the Office of the Dean to pursue a minor.

The following are requirements for minor fields which are offered by the E. J. Ourso College of Business:

► **Business Administration**

To graduate with a *minor in business administration*, student must complete ACCT 2000; ECON 2030; FIN 3715; ISDS 1100; MGT 3200; MKT 3401. This minor is **NOT** available to students in the E. J. Ourso College of Business.

► **Entrepreneurship**

To graduate with a *minor in entrepreneurship*, students must complete the following courses: MGT 2000; MGT 3111; and MGT 4113 and nine additional hours to be chosen from: MGT 4120, MGT 4114, MGT 4701 or departmentally approved electives. The entrepreneurship minor is **NOT** available to students majoring in General Business or to students majoring in management with an Entrepreneurship concentration.

► **Information Technology Management**

To graduate with a *minor in Information Technology Management*, students must complete 21 hours consisting of: ISDS 1100 or ISDS 1101 or ISDS 1102, 3100, 3107, 3110, 4113, 4120, and three additional hours chosen from an ISDS elective course at the 3000 level or above. Students majoring in ISDS or General Business may not minor in this curriculum.

MAXIMUM CREDIT HOUR ENROLLMENT POLICY

During fall or spring semester, any student can enroll in 18 hours without permission from the academic advisors or the dean's office. Initially, enrollment maximums are set at 17 hours during pre-registration. Once everyone has had a chance to enroll in classes, then the limit is raised to 19 hours for all students.

If a student wishes to enroll in more than 19 hours, they must get approval from the dean's office. The E. J. Ourso College of Business will grant approval under the following conditions:

1. Graduating seniors may enroll in up to 24 hours their last semester.
2. Seniors with a cumulative gpa of 3.5 or higher may enroll in up to 23 hours.
3. All other students must have a 3.3 or higher cumulative gpa, must have enrolled in at least 18 hours in a previous semester (the immediate previous semester is preferred) and received at least a 3.3 gpa in that semester.
4. No student may enroll in more than 24 hours.
5. Transfer students may enroll in up 24 hours in a given semester after a review of their records by petitioning the dean's office.

NONMATRICULATED STATUS

To be admitted to the college on a non-matriculated basis, students must have earned a bachelor's degree and must meet the same admission requirements stated for students seeking the bachelor's degree. Credit earned after being admitted to the college may be applied toward a second bachelor's degree in accordance with the requirements for the second degree.

COOPERATIVE EDUCATION PROGRAM

Please see "Career Services Center" in the section of this catalog titled "Student Life & Academic Services."

GRADUATE PROGRAMS

Master's and doctoral degrees are offered through the Graduate School by the various departments within the college. In addition, the following specialized master's degrees are offered. For information about these degrees consult the *Graduate Bulletin*.

James C. & Cherie H. Flores Master of Business Administration Program

The combination of a general or a technical undergraduate education with a graduate-level Master of Business Administration degree is a widely recognized avenue to opportunity and success in the business world. To this end, the college offers an MBA program for students who aspire to management careers in business and industry. The program is open to those who hold degrees in arts and sciences or specialized fields such as engineering, geology, chemistry, physics, or agriculture, as well as to students with undergraduate degrees in business administration.

Master of Public Administration

The Master of Public Administration is a professional program for students interested in public management and/or public policy issues. The MPA program provides students with the management and financial skills to work in public agencies, non-profit organizations, private consulting and research organizations, and private companies in governmental relations. This program is administered by the Public Administration Institute. MPA students take 30 credit hours of core courses and 12 credit hours in an area of specialization.

PLACEMENT SERVICE

The University maintains a professionally staffed placement service located on the first floor of Patrick Taylor Hall. Interviews are conducted throughout the year. The major concern of the placement office is to assist both students and alumni in finding positions consistent with their career objectives.

DEPARTMENTS AND CURRICULA

GENERAL BUSINESS ADMINISTRATION

CURRICULUM IN GENERAL BUSINESS ADMINISTRATION

TOTAL SEM. HRS. • 121

*See "Electives" under "Degree Requirements of the College."
 **To be selected from the offerings of at least four of the following departments: Accounting, Economics, Finance, Management, Marketing, and Information Systems and Decision Sciences.

FRESHMAN YEAR	SEM. HRS.
BADM 1000.....	1
Economics 2000 or 2001	3
English 1001	3
Mathematics 1021,1431	6
ISDS 1101 or 1102.....	3
General education natural sciences sequence	6
Accounting 2001 or 2002	3
Approved communication studies	
Elective 1 (choose from CMST 2060, 2061, and 2064)	3
General education humanities course	3

SOPHOMORE YEAR	SEM. HRS.
Accounting 2101 or 2102 or 3001 or 3002....	3
English 2000	3
Economics 2010 or 2011, 2035 or 2036.....	6
Approved communication studies	
Elective 2 (choose from CMST 2010, 2060, 2061, and 4113)	3
ISDS 2000 or 2010, 2001 or 2011.....	6
General education arts course.....	3
General education humanities course	3
General education natural sciences course (physical/life, not same as sequence)	3
	<u>30</u>

JUNIOR YEAR	SEM. HRS.
Business Law 3201	3
Finance 3716.....	3
Management 3200.....	3
ISDS 3115 or 3117.....	3
Marketing 3401 or 3402.....	3
Approved business administration electives (3000/4000 level)**	12
Elective*	3
	<u>30</u>

SENIOR YEAR	SEM. HRS.
Management 3830 or 3831	3
Approved business administration electives (3000/4000 level)**	18
General education humanities course	3
Electives*	6
	<u>30</u>

DEPARTMENT OF ACCOUNTING

OFFICE • 3101 Patrick F. Taylor Hall
 TELEPHONE • 225-578-6202
 FAX • 225-578-6201
 WEB SITE • www.bus.lsu.edu/accounting
 E-MAIL • accounting@lsu.edu

Students are required to earn at least a grade of "C" in each accounting course taken. For an accounting course to qualify as a pre-requisite for another accounting course, it is necessary that a grade of "C" or better be earned in the prerequisite course.

Candidates for the Certified Public Accountant's examination (CPA) in Louisiana must have at least 150 hours of college credit.

CURRICULUM IN ACCOUNTING

TOTAL SEM. HRS. • 121

**See "Electives" under "Degree Requirements of the College."*

FRESHMAN YEAR	SEM. HRS.
BADM 1000	1
Economics 2000 or 2001.....	3
English 1001	3
Mathematics 1021, 1431	6
ISDS 1101 or 1102	3
Accounting 2001 or 2002.....	3
Approved communication studies	
Elective 1 (choose from CMST 2060, 2061, and 2064)	3
General education natural sciences sequence	6
General education humanities course	3
	<u>31</u>

SOPHOMORE YEAR	SEM. HRS.
Accounting 2101	3
English 2000	3
Economics 2010 or 2011, 2035 or 2036	6
General education arts course.....	3

Approved communication studies	
elective 2 (choose from CMST 2010, 2060, 2061, and 4113).....	3
ISDS 2000 or 2010, 2001 or 2011	6
General education humanities course.....	3
General education natural sciences course (physical/ life, not same as sequence).....	3
	<u>30</u>

JUNIOR YEAR	SEM. HRS.
Accounting 3001 or 3002, 3021.....	6
Accounting 3121.....	3
Business law 3201	3
Finance 3716.....	3
Management 3200	3
Marketing 3401 or 3402	3
ISDS 3115 or 3117	3
General education humanities course.....	3
Business elective (3000/4000 level).....	3
	<u>30</u>

SENIOR YEAR	SEM. HRS.
Accounting 3122, 3221, 3222	9
Accounting 4121.....	3
Management 3830 or 3831	3
Electives*	9
Business electives (3000/4000).....	6
	<u>30</u>

DEPARTMENT OF ECONOMICS

OFFICE • 2107 Patrick F. Taylor Hall
 TELEPHONE • 225-578-5211
 FAX • 225-578-3807
 WEB SITE • www.bus.lsu.edu/economics

CURRICULUM IN ECONOMICS

TOTAL SEM. HRS. • 121

If postgraduate study in economics is anticipated, it is strongly recommended that the calculus sequence, MATH 1550-1552 and 2085, be taken.

**See "Electives" under "Degree Requirements of the College."*

FRESHMAN YEAR	SEM. HRS.
BADM 1000	1
Economics 2000 or 2001, 2010 or 2011.....	6
English 1001	3
Mathematics 1021, 1431	6
General education natural science sequence .	6
Approved communication studies	
Elective 1(choose from CMST 2060, 2061, and 2064)	3
ISDS 1101 or 1102	3
General education arts course	3
	<u>31</u>

SOPHOMORE YEAR	SEM. HRS.
Accounting 2001 or 2002, 2101 or 2102.....	6
Economics 2035 or 2036	3
English 2000	3
Approved communication studies	
Elective 2 (choose from CMST 2010, 2060, 2061, and 4113).....	3
ISDS 2000 or 2010, 2001 or 2011	6
General education humanities course.....	3
General education natural science course (physical/life, not same as sequence).....	3
Elective*	3
	<u>30</u>

JUNIOR YEAR	SEM. HRS.
Economics 4710, 4720.....	6
Finance 3716.....	3
BLAW 3201	3
Management 3200	3
Marketing 3401 or 3402.....	3

ISDS 3115 or 3117	3
Economics electives	6
General education humanities course	3
	<u>30</u>

SENIOR YEAR	SEM. HRS.
Management 3830 or 3831	3
Economics electives	12
General education humanities course	3
Electives*	6
Business electives (3000/4000 level).....	6
	<u>30</u>

Area of Concentration

◆ **Empirical Economic Analysis**

Required (9 hrs)—ECON 4540, 4630, 4632

CURRICULUM IN INTERNATIONAL TRADE AND FINANCE

TOTAL SEM. HRS. • 121

If postgraduate study in economics is anticipated, it is strongly recommended that the calculus sequence, MATH 1550-1552 and 2085, be taken.

** See "Electives" under "Degree Requirements of the College."*

FRESHMAN YEAR	SEM. HRS.
BADM 1000	1
Economics 2000 or 2001, 2010 or 2011	6
English 1001	3
Mathematics 1021, 1431.....	6
General education natural science sequence ..	6
Approved communication studies	
Elective 1 (choose from CMST 2060, 2061, and 2064)	3
ISDS 1101 or 1102	3
General education arts courses	3
	<u>31</u>

SOPHOMORE YEAR	SEM. HRS.
Accounting 2001 or 2002, 2101 or 2102	6
Economics 2035 or 2036	3
English 2000	3
Approved communication studies	
Elective 2 (choose from CMST 2010, 2060, 2061, and 4113).....	3
ISDS 2000 or 2010, 2001 or 2011	6
General education humanities course	3
General education natural science course (life, not same as sequence).....	3
Elective*	3
	<u>30</u>

JUNIOR YEAR	SEM. HRS.
Economics 4710, 4720	6
Finance 3716	3
BLAW 3201	3
Management 3200	3
Marketing 3401 or 3402	3
Political Science 2057	3
ISDS 3115 or 3117	3
Economics elective	3
General education humanities course	3
	<u>30</u>

SENIOR YEAR	SEM. HRS.
Economics 4520, 4550	6
Management 3830 or 3831, 4420	6
Marketing 4443	3
General education humanities course	3
Electives*	6

Business elective (3000/4000 level).....	3
Economics elective	3
	<u>30</u>

Area of Concentration

◆ Empirical Economic Analysis

Required (9 hrs)—ECON 4540, 4630, 4632

DEPARTMENT OF FINANCE

OFFICE • 2163 Patrick F. Taylor Hall
 TELEPHONE • 225-578-6291
 FAX • 225-578-6366
 E-MAIL • finance@lsu.edu
 WEB SITE • www.bus.lsu.edu/finance

CURRICULUM IN FINANCE

TOTAL SEM. HRS. • 121

* See "Electives" under "Degree Requirements of the College".

FRESHMAN YEAR	SEM. HRS.
Accounting 2001 or 2002.....	3
BADM 1000	1
Economics 2000 or 2001.....	3
English 1001	3
ISDS 1101 or 1102	3
Mathematics 1021, 1431	6
General education natural sciences sequence	6
Approved communication studies Elective 1 (choose from CMST 2060, 2061, and 2064).....	3
General education humanities course.....	3
	<u>31</u>

SOPHOMORE YEAR	SEM. HRS.
Accounting 2101 or 2102.....	3
English 2000	3
Economics 2010 or 2011.....	3
Approved communication studies Elective 2 (choose from CMST 2010, 2060, 2061, and 4113).....	3
ISDS 2000 or 2010, 2001 or 2011.....	6
General education arts course	3
General education humanities courses	6
General education natural sciences course (physical/life, not same as sequence).....	3
	<u>30</u>

JUNIOR YEAR	SEM. HRS.
Accounting 3001 or 3002	3
Economics 2035 or 2036.....	3
Business Law 3201	3
Finance 3716, 3826.....	6
Management 3200.....	3
Marketing 3401 or 3402.....	3
ISDS 3115 or 3117	3
Business elective (3000/4000 level).....	3
Elective*	3
	<u>30</u>

SENIOR YEAR	SEM. HRS.
Management 3830 or 3831.....	3
Accounting 3021.....	3
Finance 3717.....	3
Finance 4828 or 4830 or 4850	3
Approved 3000- or 4000-level finance electives	9
Business elective (3000/4000 level).....	3
Electives*	6
	<u>30</u>

Note: Finance 3716 is the prerequisite to most upper level finance courses and should be scheduled in the junior year.

DEPARTMENT OF INFORMATION SYSTEMS & DECISION SCIENCES

OFFICE • 3199 Patrick F. Taylor Hall
 TELEPHONE • 225-578-2126
 FAX • 225-578-2511
 E-MAIL • isds@lsu.edu
 WEB SITE • www.bus.lsu.edu/isds

The *Information Systems and Decision Sciences curriculum* deals with the analysis, design, and implementation of business processes and the information technology to support these processes in an organization.

CURRICULUM IN INFORMATION SYSTEMS AND DECISION SCIENCES

TOTAL SEM. HRS. • 121

* See "Electives" under "Degree Requirements of the College."

FRESHMAN YEAR	SEM. HRS.
Accounting 2001 or 2002	3
BADM 1000.....	1
Economics 2000 or 2001	3
English 1001	3
Mathematics 1021, 1431.....	6
General education natural sciences sequence 6 Approved communication studies Elective 1 (choose from CMST 2060, 2061, and 2064)	3
General education humanities courses	3
ISDS 1101 or 1102	3
	<u>31</u>

SOPHOMORE YEAR	SEM. HRS.
Accounting 2101 or 2102 or 3001 or 3002 ...	3
English 2000.....	3
Economics 2010 or 2011, 2035 or 2036	6
Approved communication studies Elective 2 (choose from CMST 2010, 2060, 2061, and 4113).....	3
ISDS 2000 or 2010, 2001 or 2011	6
General education arts courses.....	3
General education humanities course.....	3
General education natural sciences course (physical/life, not same as sequence	3
	<u>30</u>

JUNIOR YEAR	SEM. HRS.
Business elective (3000/4000 level)	3
Business Law 3201	3
Management 3200	3
Marketing 3401 or 3402	3
ISDS 3100, 3107, 3110, 3115 or 3117, 4113.....	15
Elective*.....	3
	<u>30</u>

SENIOR YEAR	SEM. HRS.
Finance 3716	3
Management 3830 or 3831	3
ISDS 3200, 4120, 4125.....	9
General education humanities course.....	3
Business elective (3000/4000 level)	3
Elective*	3
Approved ISDS electives.....	6
	<u>30</u>

WILLIAM W. AND CATHERINE M. RUCKS DEPARTMENT OF MANAGEMENT

OFFICE • 3158 Patrick F. Taylor Hall
 TELEPHONE • 225-578-6101
 FAX • 225-578-6140
 E-MAIL • management@lsu.edu
 WEB SITE • www.bus.lsu.edu/management

CURRICULUM IN MANAGEMENT

TOTAL SEM. HRS. • 121

An upper division honors program for qualified management majors is available. Interested students should contact the Rucks Department of Management for additional information.

* See "Electives" under "Degree Requirements for the College".

FRESHMAN YEAR	SEM. HRS.
Accounting 2001 or 2002	3
BADM 1000.....	1
Economics 2000 or 2001	3
English 1001	3
ISDS 1101 or 1102	3
Mathematics 1021, 1431	6
General education natural sciences sequence 6 Approved communication studies Elective 1 (choose from CMST 2060, 2061, and 2064)	3
General education humanities course	3
	<u>31</u>

SOPHOMORE YEAR	SEM. HRS.
Accounting 2101 or 2102	3
English 2000	3
Economics 2010 or 2011	3
Approved communication studies Elective 2 (choose from CMST 2010, 2060, 2061, and 4113)	3
ISDS 2000 or 2010, 2001 or 2011	6
General education arts course.....	3
General education humanities course	3
General education natural sciences course (physical/life, not same as sequence).....	3
Elective*	3
	<u>30</u>

JUNIOR YEAR	SEM. HRS.
Economics 2035 or 2036.....	3
Business Law 3201.....	3
Finance 3716.....	3
Management 3500 or 3513 and 3200, 3320, 4620	12
Marketing 3401 or 3402.....	3
ISDS 3115 or 3117.....	3
Business elective (3000/4000 level)	3
	<u>30</u>

SENIOR YEAR	SEM. HRS.
Management 3830 or 3831	3
Area requirements	15
General education humanities course	3
Elective*	3
Business electives (3000/4000 level).....	6
	<u>30</u>

Areas of Concentration

◆ Management

Required Courses (6 hrs.)—MGT 3211, 4420
Approved Electives (9 hrs.)—A list of approved electives is available from the Department of Management.

◆ Human Resource Management

Required Courses (9 hrs.)—Select three from MGT 4322, 4323, 4523, and either 3500 or 3513.

Approved Electives (6 hrs.)—A list of approved electives is available from the Rucks Department of Management.

◆ Entrepreneurship

Required Courses (9 hrs.)—MGT 3111; MGT 4113 or MGT 4114; MGT 4100 or MGT 4120.

Approved Electives (6 hrs.)—A list of approved electives is available from the Rucks Department of Management and is posted on the Rucks Department of Management Web site.

DEPARTMENT OF MARKETING

OFFICE • 3127 Patrick F. Taylor Hall
 TELEPHONE • 225-578-8684
 FAX • 225-578-8616
 WEB SITE • www.bus.lsu.edu/marketing

CURRICULUM IN MARKETING

TOTAL SEM. HRS. • 121

**See "Electives" under Degree Requirements of the College.*

FRESHMAN YEAR	SEM. HRS.
Accounting 2001 or 2002.....	3
BADM 1000	1
Approved communication studies	
Elective 1 (choose from CMST 2060, 2061, and 2064)	3
Economics 2000 or 2001	3
English 1001	3
ISDS 1101 or 1102.....	3
Mathematics 1021, 1431	6
General education natural sciences sequence	6
General education humanities course	3
	<u>31</u>

SOPHOMORE YEAR	SEM. HRS.
Accounting 2101 or 2102.....	3
Economics 2010 or 2011, 2035 or 2036.....	6
English 2000	3
Approved communication studies	
Elective 2 (choose from CMST 2010, 2060, 2061, and 4113)	3
ISDS 2000 or 2010, 2001 or 2011.....	6
General education arts course.....	3
General education humanities course	3
General education natural sciences course (physical/life, not same as sequence).....	3
	<u>30</u>

JUNIOR YEAR	SEM. HRS.
Business Law 3201	3
Finance 3716.....	3
Management 3200.....	3
Marketing 3401 or 3402, 3411	6
ISDS 3115 or 3117.....	3
Elective*	3
Marketing electives	6
Marketing elective (approved by dept).....	3
	<u>30</u>

SENIOR YEAR	SEM. HRS.
Management 3830 or 3831	3
Marketing 3413, 4451.....	6
Business electives (3000/4000 level)	6
Marketing elective	3
Marketing elective (approved by dept)	3
General education humanities course.....	3
Electives*	6
	<u>30</u>

PUBLIC ADMINISTRATION INSTITUTE

DIRECTOR • Richardson
 OFFICE • 3200 Patrick F. Taylor Hall
 TELEPHONE • 225-578-6743
 FAX • 225-578-9078
 WEB SITE • www.bus.lsu.edu/pai

The Public Administration Institute provides an interdepartmental administrative framework for the study of public administration, public management, and public policy at LSU. Academic programs, research activities, and public service endeavors are included in the mission of this institute.

The Academic program is the Master of Public Administration. Research activities include organizing major studies of importance to state and local governments. Public service activities include serving on state commissions, providing executive sessions for top state management, and working with state agencies on major issues of importance to the state.

The Public Administration Institute coordinates a joint MPA/JD degree program with the LSU Law Center. See the Graduate Bulletin for more information.

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SCHOOL OF THE Coast and Environment

CHRISTOPHER D'ELIA
Dean

RICHARD F. SHAW
Interim Associate Dean

ROBERT L. ALLEN
Assistant Dean

DONALD M. BALTZ
*Chair, Department of Oceanography &
Coastal Sciences*

NINA S. LAM
Chair, Department of Environmental Sciences

JAYE E. CABLE
Director of Undergraduate Programs

1002Q Energy, Coast & Environment
Building
225-578-6316
FAX 225-578-5328
WEB SITE • www.sce.lsu.edu

The *School of the Coast & Environment* (SC&E) includes two academic departments - Department of Environmental Sciences and Department of Oceanography & Coastal Sciences. The school administers undergraduate and graduate degrees and facilitates the development of innovative research programs leading to a better understanding of coastal and environmental systems worldwide.

The school offers preparation for careers in environmental sciences, environmental planning and management, oceanography, coastal and marine sciences, and wetland studies. Undergraduate students are provided a strong academic background in general education and the basic sciences, may choose among five areas of specialty for their upper level courses, and have the opportunity to perform an independent research project in an environmental or coastal science related field.

For specific information concerning undergraduate degree requirements for the *BS in Coastal Environmental Science*, refer to the curriculum shown in either department. Detailed information about graduate degree programs in *Environmental Sciences* or *Oceanography & Coastal Sciences* may be found in the Graduate Bulletin.

ADMISSION REQUIREMENTS

Students who are considering a BS in Coastal Environmental Science should pay special attention to the mathematics and science courses they select and should consult a representative of the program prior to their initial registration. Students will be admitted to the program when they have earned 24 or more semester hours of credit in courses numbered 1000 or higher; maintained a gpa of at least 2.00 on both LSU and cumulative averages; and have passed all courses in mathematics and science with a grade of "C" or better, or received special approval from the dean of the school.

Transfer students from other accredited colleges or universities will be permitted to enter the program when they present an official transcript as evidence that they have met the current admission requirements of the university or school and receive approval from the dean of the school.

Students who, after initial enrollment in this school, wish to obtain credit for courses taken at other accredited institutions, and who plan to use this course credit toward their degree requirements, must obtain approval from the dean.

STUDENT RESPONSIBILITY

Students in this school and program bear final responsibility for selection of their academic programs and adherence to all published regulations and requirements of the school and the university. Each student must see his or her counselor in the program office of the school for a final degree checkout during the semester prior to the semester in which the degree is to be awarded.

DEGREE REQUIREMENTS

It is the student's responsibility to qualify for the bachelor's degree by meeting the following requirements:

- Meet the university's general education course requirements.
- Achieve a "C" or better in all basic science and mathematics requirements.
- Achieve a 2.00 gpa, as required by the University, for all work taken at LSU and on all work attempted at U. S. institutions.
- Successfully complete a minimum of 30 hours of residence in the Coastal Environmental Science program. These hours are included in the University requirement that a minimum of 25 percent of hours applied toward the degree be earned at LSU.
- Six hours of ROTC may be allowed for degree credit as long as they are taken at 3000-level or above.

MINOR FIELD REQUIREMENTS (OPTIONAL)

The Department of Oceanography and Coastal Sciences offers a minor in *oceanography and coastal sciences*. Requirements for the minor are completion of OCS 2008 and OCS 2009 with a grade of "C" or better (8 hours) and completion of at least 10 additional credit hours of approved electives with a grade of "C" or better, at least six hours of which must be at the 3000-level or higher.

Students majoring in Coastal Environmental Science may *not* choose oceanography and coastal sciences as a minor.

It should be noted that students may be eligible for undergraduate minors in both *Chemistry* and *Biological Sciences* depending upon the courses selected. See the College of Basic Sciences curriculum notes for specific requirements regarding minors in these programs.

COLLEGE PROBATION

A student in the School of the Coast and Environment who fails to earn a 2.00 semester gpa in a regular semester will be placed on college probation. In addition, students who fail to meet the school academic requirements noted in the section on degree requirements, or who enter the school with deficiencies, may be placed on college probation. At the discretion of the dean, a student who is on college probation and fails to meet the academic requirements, including earning a 2.00 or better semester gpa, may be declared ineligible to continue in the School at the end of a regular semester. A student on college probation who does earn a 2.00 or better semester gpa, who remediates course deficiencies, and who makes satisfactory progress in the degree program will be removed from college probation at the end of a regular semester or summer term.

SCHOOL OF THE COAST AND ENVIRONMENT •

UNDERGRADUATE DEGREES

Department	Curricula	Degree
Environmental Sciences	Coastal Environmental Science	Bachelor of Science in Coastal Environmental Science
Oceanography and Coastal Sciences		

PHI BETA KAPPA

Seniors and juniors with gpas of at least 3.60 and 3.90, respectively, are considered for membership in Phi Beta Kappa, the oldest scholastic honor society in the United States. Excellence in a variety of intellectual disciplines, rather than proficiency in a single field of study, is the major criterion for election.

The academic record should include satisfactory completion of the general education requirement, including two courses in English or American literature or literature in a foreign language (if not the major field); six-hour sequences in both a life science and a physical science, with an additional two hours of related laboratory work in one of these fields; upper division courses (3000-level or above) in at least two different humanities or social sciences outside the major; and electives that show a commitment to a liberal education.

Sophomores and juniors should consult with Phi Beta Kappa officers for more specific information. Specific requirements are described on the Phi Beta Kappa Web site: www.lsu.edu/student_organizations/phi/betakappa/.

PHI KAPPA PHI

Founded in 1897 at the University of Maine, Phi Kappa Phi is the nation's oldest, largest, and most selective honor society for all academic disciplines. Its chapters are on nearly 300 campuses in the United States, Puerto Rico, and the Philippines. Each year, approximately 30,000 members are initiated. Some of the organization's more notable members include former President Jimmy Carter, writer John Grisham, NASA astronaut Wendy Lawrence, and Netscape founder James Barksdale. The LSU chapter was founded in 1930 as the 43rd chapter in the nation.

The mission of Phi Kappa Phi is to recognize and promote academic excellence in all fields of higher education and to engage the community of scholars in service to others. Phi Kappa Phi is unique because it recognizes superior scholarship in *all academic fields*, rather than restricting membership to a limited field. Juniors in the top 7.5 percent and seniors and graduate students in the top ten percent of their classes may be invited to become members of Phi Kappa Phi. New LSU Phi Kappa Phi members are initiated and honored in the spring semester each year and wear identi-

fying ribbons on their academic gowns at commencement exercises. Additional information about the Society may be found at www.phikappaphi.org.

DEPARTMENT OF ENVIRONMENTAL SCIENCES

OFFICE • 1273 Energy, Coast & Environment Building
 TELEPHONE • 225-578-8521
 FAX • 225-578-4286
 E-MAIL • envs@lsu.edu
 WEB SITE • www.environmental.lsu.edu

The *Department of Environmental Sciences* is a multidisciplinary research and academic unit whose mission is to provide the academic talents and knowledge needed to solve environmental problems that are important to Louisiana, the Gulf of Mexico region, and comparable areas throughout the nation and the world.

The department is committed to undergraduate and graduate education and offers a variety of courses relating to the environment. Faculty from other academic units participate in teaching some of the department's courses. Likewise, departmental faculty serve as adjunct faculty in several departments that offer bachelor, master, and doctoral programs. An undergraduate major in coastal environmental science (a Bachelor of Science degree) is offered through the department. The degree is jointly hosted by the Department of Oceanography & Coastal Sciences.

At the graduate level, the Department offers the MS in environmental sciences and PhD minor in environmental sciences. In order to provide students with a holistic training to meet today's environmental challenges, the graduate curriculum is organized according to three priority areas: (a) Biophysical Systems (coupled biological and physical systems); (b) Environmental Planning and Management (coupled human and natural systems); and (c) Environmental Assessment and Analysis (coupled people and technology). The MS program consists of thesis and professional options.

In addition, the department jointly offers with the Department of Oceanography & Coastal Sciences a minor in wetlands science and Management at the graduate level. Collaborative graduate programs with Southern University and LSU-Shreveport are also available.

Research activities within the department include environmental assessment and

resource sustainability, environmental microbial ecology, molecular phylogenetics, water quality, air quality and air transport modeling, bioremediation, environmental management, environmental toxicology, genetic toxicology, environmental regulations, policy development, hazardous waste management, development of mobile analytical instrumentation, the environmental impact of toxic chemicals, remote sensing, geographic information science, environmental health, and environmental decision making.

For additional information, see the section "Graduate School-Professional Program" in this catalog and the Department of Environmental Sciences Web site.

CURRICULUM IN COASTAL ENVIRONMENTAL SCIENCE

TOTAL SEM. HRS. • 120

FRESHMAN YEAR	SEM. HRS.
Biological Sciences 1201, 1208, 1202, 1209.....	8
Chemistry 1201, 1202, 1212.....	8
Mathematics 1550.....	5
Environmental Science 1126.....	3
English 1001.....	3
General education arts course.....	3
	—
	30

SOPHOMORE YEAR	SEM. HRS.
Chemistry 2261, 2262, 2364.....	8
Mathematics 1552.....	4
Experimental Statistics 2201 or Mathematics 2057.....	3
English 2000.....	3
Oceanography 2008, 2009.....	8
General education social science course.....	3
	—
	29

JUNIOR YEAR	SEM. HRS.
Biological Science 2051 or 2153.....	4
Oceanography 3103.....	3
Physics 2101, 2108, 2102, 2109.....	8
Environmental Sciences 3102 or Mathematics 2065.....	3
Environmental Sciences 3999 or Oceanography 4001.....	2
Approved coastal environmental science electives.....	4
Approved electives.....	3
General education humanities course.....	3
	—
	30

SENIOR YEAR	SEM. HRS.
Approved coastal environmental science electives.....	16
Approved electives.....	6
General education humanities courses.....	6
General education social science course.....	3
	—
	31

Approved coastal environmental science electives (20 hours required) are environmental courses numbered 3000 and higher and must include at least one course from four of the five areas of emphasis: (1) *physical science area*: OCS 3200, OCS 4021, OCS 4024, OCS 4040, OCS 4128, OCS/GEOL 4164, OCS 4170, OCS 4210, ENVS/RNR 4900; (2) *chemistry area*: OCS 4126 or GEOL 4081, CHEM 4150, ENVS 4112, ENVS 4101, OCS 4165, BIOL 4087, CHE 4263; (3) *biology area*: ENVS 3112, ENVS/EMS 4010, ENVS 4035, ENVS 4112, ENVS 4477, ENVS 4500, OCS 4012, OCS 4052, OCS/BIOL 4090, OCS/BIOL 4308, OCS 4372, OCS 4410, OCS 4550, BIOL 4087, BIOL 4262/4263, RNR/BIOL 4020, RNR 4037, RNR 4106, RNR/BIOL 4145; (4) *wetland sciences area*: OCS/BIOL 4308, OCS 4410, OCS 4560, OCS 4128, OCS 4165, OCS 4372, RNR/BIOL 4020; (5) *policy and management area*: ENVS 4149, ENVS 4261, ENVS 4262, ENVS 4264, ENVS 4266, OCS 4465, OCS 4560, RNR 4023, EMS 3040, EMS 3050, EMS 4020.

Additional courses numbered 3000 and higher outside of the coastal environmental science program may be substituted as approved CES electives with prior written approval from the CES program undergraduate advisor. Many departments at LSU offer courses with an environmental emphasis or closely related topic. Please check with your advisor and the General Catalog for options.

Students are required to perform undergraduate research (ENVS 3999 or OCS 4001) working with a faculty member in their area of expertise. Contact the undergraduate program advisor for information about possible mentors.

It should be noted that students successfully completing requirements in BIOL 4987, BIOL 2153, and CHEM 4150 may be eligible for undergraduate minors in both *Chemistry* and *Biological Sciences*. See the College of Basic Sciences curriculum notes for specific requirements regarding minors.

DEPARTMENT OF OCEANOGRAPHY AND COASTAL SCIENCES

OFFICE • 1002-Y Energy, Coast & Environment Building
TELEPHONE • 225-578-6308
FAX • 225-578-5328
E-MAIL • ocean@lsu.edu
WEB SITE • www.ocean.lsu.edu

The Department of Oceanography & Coastal Sciences offers Bachelor of Science, Master of Science, and Doctor of Philosophy degrees and supports the expansion of marine-related instruction in other academic departments. Research and instruction in the department is focused on fundamental understanding and practical application of knowledge of the physical, chemical, biological, geological, and meteorological processes that affect those environments usually identified as marine, coastal, or estuarine.

The extensive marshes and estuaries of Louisiana (40 percent of the coastal wetlands in the United States) and the adjacent continental shelf, impacted by natural and anthropogenic activity, serve as a vast natural laboratory for much of the field research conducted by faculty and graduate students. Research activity is carried out not only in Louisiana but also at such regional, national, and international sites as Florida Bay, the Everglades, the Orinoco River delta, and estuaries and coastal waters of Central America, Denmark, France, and China.

Admission to the graduate program in oceanography and coastal sciences requires admission to the Graduate School and a bachelor's or graduate degree in science or engineering from an accredited institution. Because of the nature of the fields of oceanography and coastal sciences, successful applicants to the program must first be accepted by a faculty member who will serve as their major advisor. Students interested in the department's program are, therefore, encouraged to contact faculty members who work in the student's field of interest. A description of all courses offered by the department is included in this catalog. In addition all students are required to have successfully completed differential and integral calculus. If an applicant has not completed these requirements by the time of enrollment in the Department of Oceanography and Coastal Sciences, they will be required to do so during their first year at LSU.

An undergraduate minor in *oceanography and coastal sciences* is available. Requirements for the minor are:

- Completion of OCS 2008 and 2009, with a grade of "C" or better (8 hrs.);
- Completion of at least 10 additional hours of approved electives with a grade of "C" or better, at least six hours of which must be at the 3000-level or higher.

An undergraduate major in coastal environmental science is offered through the Department of Oceanography and Coastal Sciences. This degree is jointly hosted by the Department of Environmental Sciences.

CURRICULUM IN COASTAL ENVIRONMENTAL SCIENCE

TOTAL SEM. HRS. • 120

FRESHMAN YEAR	SEM. HRS.
Biological Sciences 1201, 1208, 1202, 1209.....	8
Chemistry 1201, 1202, 1212.....	8
Mathematics 1550.....	5
Environmental Science 1126.....	3
English 1001.....	3
General education arts course.....	3
	—
	30

SOPHOMORE YEAR	SEM. HRS.
Chemistry 2261, 2262, 2364.....	8
Mathematics 1552.....	4
Experimental Statistics 2201 or Mathematics 2057.....	3
English 2000.....	3
Oceanography 2008, 2009.....	8
General education social science course.....	3
	—
	29

JUNIOR YEAR	SEM. HRS.
Biological Science 2051 or 2153.....	4
Oceanography 3103.....	3
Physics 2101, 2108, 2102, 2109.....	8
Environmental Sciences 3102 or Mathematics 2065.....	3
Environmental Sciences 3999 or Oceanography 4001.....	2
Approved coastal environmental science electives.....	4
Approved electives.....	3
General education humanities course.....	3
	—
	30

SENIOR YEAR	SEM. HRS.
Approved coastal environmental science electives.....	16
Approved electives.....	6
General education humanities courses.....	6
General education social science course.....	3
	—
	31

Approved coastal environmental science electives (20 hours required) are environmental courses numbered 3000 and higher and must include at least one course from four of the five areas of emphasis: (1) *physical science area*: OCS 3200, OCS 4021, OCS 4024, OCS 4040, OCS 4128, OCS/GEOL 4164, OCS 4170, OCS 4210, ENVS/RNR 4900; (2) *chemistry area*: OCS 4126 or GEOL 4081, CHEM 4150, ENVS 4112, ENVS 4101, OCS 4165, BIOL 4087, CHE 4263; (3) *biology area*: ENVS 3112, ENVS/EMS 4010, ENVS 4035, ENVS 4112, ENVS 4477, ENVS 4500, OCS 4012, OCS 4052, OCS/BIOL 4090, OCS/BIOL 4308, OCS 4372, OCS 4410, OCS 4550, BIOL 4087, BIOL 4262/4263, RNR/BIOL 4020, RNR 4037, RNR 4106, RNR/BIOL 4145; (4) *wetland sciences area*: OCS/BIOL 4308, OCS 4410, OCS 4560, OCS 4128, OCS 4165, OCS 4372, RNR/BIOL 4020; (5) *policy and management area*: ENVS 4149, ENVS 4261, ENVS 4262, ENVS 4264, ENVS 4266, OCS 4465, OCS 4560, RNR 4023, EMS 3040, EMS 3050, EMS 4020.

Additional courses numbered 3000 and higher outside of the coastal environmental science program may be substituted as approved CES electives with prior written approval from the CES program undergraduate advisor. Many departments at LSU offer courses with an environmental emphasis or closely related topic. Please check with your advisor and the General Catalog for options.

Students are required to perform undergraduate research (ENVS 3999 or OCS 4001) working with a faculty member in their area of expertise. Contact the undergraduate program advisor for information about possible mentors.

It should be noted that students successfully completing requirements in BIOL 4987, BIOL 2153, and CHEM 4150 may be eligible for undergraduate minors in both *Chemistry* and *Biological Sciences*. See the College of Basic Sciences curriculum notes for specific requirements regarding minors.

COLLEGE OF Education

M. JAYNE FLEENER, *Dean E. B. "Ted"*
Robert Professor of Education; Dean

PATRICIA D. EXNER
Associate Dean

CHAD T. GOTHREAU
*Assistant Dean for Finance, Administration &
External Relations*

LISA NEWMAN
Assistant Dean for Enrollment Management

ANDREA JONES
Counselor

BRIDGET ROBICHEAUX
Advisor

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225-578-2331
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E-MAIL • edinfo@lsu.edu

LSU's College of Education, the largest in the state, offers bachelor's degrees and—through the Graduate School—master's degrees, certificates of education specialist, and doctoral programs. The college has two academic departments: the Department of Educational Theory, Policy, and Practice and the Department of Kinesiology. The K-12 University Laboratory School comprises the third department in the college.

The college's primary purpose is the preparation of highly qualified teachers, administrators, counselors, and human service professionals for elementary and secondary schools, for other colleges and universities, and for health, fitness, and sports agencies.

The college takes pride in producing graduates who are inquiring pedagogues, effective professionals, and reflective practitioners. Faculty, students, and graduates are actively engaged in the research tradition of the University, thus at the cutting edge in using sophisticated approaches for improving the quality of life for and educating a diverse population in a complex and interdependent world.

The Department of Educational Theory, Policy, and Practice (ETPP) offers two undergraduate programs in elementary grades education, including a grades PK-3 collaborative program with the School of Human Ecology, College of Agriculture. The department also offers an undergraduate program in secondary education with an area of concentration in art (grades K-12) and collaborates with the College of Arts & Sciences and the College of Basic Sciences in providing concentrations in other areas of secondary education (English, French, history/social studies, mathematics, Spanish, biological sciences, chemistry, physics). Through the Graduate School, the department offers graduate programs in educational leadership, counseling, curriculum, educational research, gifted education, higher education, instruction, special education, and educational technology leadership.

The Department of Kinesiology (KIN) provides undergraduate and graduate programs for students interested in the art and science of human movement. Undergraduate areas of concentration are athletic training, sports studies, fitness studies, human movement science, and K-12 health and physical education. Graduates pursue careers in K-12 educational settings, health and fitness programs, and professional programs such as allied health and medicine.

The University Laboratory School offers a comprehensive K-12 curriculum for approximately 1,300 students. The school serves as a demonstration center for educational methodology and provides for observation, research, and preservice field experiences for university students and faculty.

The following programs are offered by the College of Education:

- Bachelor of Science in Early Childhood Education—grades PK-3 (BS);
- Bachelor of Science in Elementary Grades Education (BS);

- Bachelor of Science in Secondary Education (BS) with an area of concentration in art;
- Bachelor of Science in Kinesiology (BS) with areas of concentration in athletic training, sports studies, fitness studies, human movement science, and health and physical education teacher certification;
- Bachelor of Science in Sport Administration with areas of concentration in Sport Commerce and Sport Leadership.

The following graduate programs are offered through the Graduate School:

- Master of Arts in Teaching (MAT), called the Holmes Program, with certification in elementary (grades 1-5) or in a secondary area (grades 6-12 English, mathematics, sciences, social studies) education;
- Master of Education (MEd) with areas of study in educational leadership, educational technology leadership, counseling, elementary education, English, foreign language, mathematics, science, social studies, special education, gifted education;
- Master of Arts in Education (MA) with areas of study in community counseling, curriculum studies, educational research, and higher education;
- Master of Science in Kinesiology (MS) with areas of study in exercise physiology, motor behavior, pedagogy, and sport management;
- Certificate of Education Specialist (EdS) with areas of study in curriculum and instruction, administration, and counseling;
- Doctor of Philosophy in Curriculum and Instruction (PhD);
- Doctor of Philosophy in Educational Leadership and Research (PhD) with areas of study in higher education, K-12 education, and research; and
- Doctor of Philosophy in Kinesiology (PhD) with areas of study in exercise physiology, motor behavior, and pedagogy.

ADMISSION/ADVISING

Students anticipating careers in teaching and undergraduate students pursuing a kinesiology degree should contact the Office of Student Services, College of Education, 236 Peabody Hall, to declare their interest and to obtain additional information. The variety of routes to teacher certification and specific general education requirements necessitate early and continuous advising by the Office of Student Services.

Students interested in graduate programs that do not include initial teacher certification should contact the Graduate School.

Office of Student Services

The Office of Student Services provides all student-related services for undergraduate students in the college and for master's students seeking initial teacher certification. The office strives to provide a single, student friendly environment designed to meet all student needs: recruitment, application procedures, admissions, advising and counseling services, student records, scholarships, PRAXIS information, student-related experiences (e.g.,

student council), degree audits, teacher certification, and alumni follow-up.

STUDENT RESPONSIBILITY

Students in the College of Education bear final responsibility for selection of their academic programs and adherence to all published regulations and requirements of the college and the University. Ignorance of a rule is not grounds for waiving that rule.

Each student must see a counselor for a final degree checkout during the semester *prior* to the semester in which the degree is to be awarded.

SCHOLASTIC REQUIREMENTS

Retention

College of Education faculty monitor the growth of students enrolled in the college's programs. The College of Education reserves the right to review at any time student suitability to continue in a curriculum. In addition to the University's scholastic requirements, specific retention criteria in the College of Education include, but are not limited to, the following:

- **English Proficiency**—Students must earn a grade of "C" or better in the following courses or have the equivalent in transfer credit: ENGL 1001(1004) and 2000(1003/1005).
- **Grade Point Average Maintenance**—A student who fails to earn a 2.00 semester average in any one semester, regardless of cumulative grade point average, will be placed on college probation. To be removed from college probation, a student must earn a 2.00 or better semester gpa, remediate course deficiencies, and make satisfactory progress in the degree program. A student who fails to earn a 2.00 gpa for two consecutive semesters, regardless of cumulative gpa, will be dropped from the college.

Basic Undergraduate Degree Requirements

Undergraduate students in the College of Education are required to:

- Satisfactorily complete an approved program of study that has been determined by the faculty of the college and by the University. In addition, all University programs leading to teacher certification, including concentrations, must be approved by the LSU P-12 Education Advisory Council and the Louisiana Board of Elementary and Secondary Education.
- Sport administration program only: Complete the program (120 hours) with a minimum cumulative and LSU gpa of 2.20 on all work taken.
- Holmes five-year elementary education program only: Complete the undergraduate component of the program (130-132 hours) with a minimum 2.75 cumulative and LSU gpa on all work taken.
- All other programs in the College of Education and teacher education concentrations: Complete the program (120-131 hours) with a minimum 2.50 cumulative and LSU gpa on all work taken.
- Teacher Education Programs only: Pass all required sections of the PRAXIS Series and earn a grade of "C" or higher in course work as specified by the Louisiana Board of

Elementary and Secondary Education.

- Complete the final 25 percent of the program in residence in the College of Education.

CORRESPONDENCE CREDIT

No more than one-fourth of the number of hours required for the baccalaureate degree may be taken through Continuing Education by correspondence study. Students registered in the college may enroll in a maximum of 19 semester hours of combined resident and correspondence course work during a regular semester (12 semester hours in the summer term). Written requests to exceed this maximum must be submitted to the Office of Student Services for dean's approval.

Students in residence may take courses by correspondence only in exceptional cases (e.g., conflicts between single sections of required courses) and with specific approval of the dean of the college through the Office of Student Services. Students in all programs must complete all correspondence course work prior to the final semester of their program.

STUDY ABROAD

Students in the College of Education are encouraged to participate in the study abroad programs administered by the Office of Academic Programs Abroad. Course requests must be submitted in advance to the respective department for evaluation of equivalency. In addition, students must meet in advance with a College of Education counselor to ensure that degree credit will be granted upon return to LSU.

ENROLLMENT IN TWO DEGREE PROGRAMS

A student may enroll in two bachelor's degree programs concurrently and thereby earn either two degrees or earn one degree with two majors listed on the transcript, provided all requirements are completed as of the same commencement. Written requests must be submitted to the Office of Student Services for dean's approval.

Refer to the section on "Earning Two Degrees" in the "Undergraduate Degree Requirements and Regulations" chapter in this catalog.

STUDENT ORGANIZATIONS

The college's Student Council includes student representatives and members-at-large from each department. The college also sponsors an honorary organization, *Kappa Delta Epsilon*; the Kinesiology Club; Alpha Tau Sigma, a professional student organization for athletic training students; the Association of Pre-Physical Therapy Students; the Physician Assistant Collegiate Society; the Student Organization for Sport Management; and the Student National Art Education Association. Teacher certification students may also participate in student chapters of national organizations in their certification content area (such as National Association for the Education of Young Children, National Council of Teachers of English, National Council of Teachers of Mathematics, etc.). The college also sponsors Chi Sigma Iota, an honorary organization for graduate students in

counseling.

PHI KAPPA PHI

Founded in 1897 at the University of Maine, Phi Kappa Phi is the nation's oldest, largest, and most selective honor society for all academic disciplines. Its chapters are on nearly 300 campuses in the United States, Puerto Rico, and the Philippines. Each year, approximately 30,000 members are initiated. Some of the organization's more notable members include former President Jimmy Carter, writer John Grisham, NASA astronaut Wendy Lawrence, and Netscape founder James Barksdale. The LSU chapter was founded in 1930 as the 43rd chapter in the nation.

The mission of Phi Kappa Phi is to recognize and promote academic excellence in all fields of higher education and to engage the community of scholars in service to others. Phi Kappa Phi is unique because it recognizes superior scholarship in *all academic fields*, rather than restricting membership to a limited field.

Juniors in the top 7.5 percent and seniors and graduate students in the top 10 percent of their classes may be invited to become members of Phi Kappa Phi. New LSU Phi Kappa Phi members are initiated and honored in the spring semester each year and wear identifying ribbons on their academic gowns at commencement exercises. Additional information about the Society may be found at www.phikappaphi.org.

HONORS COLLEGE

Students interested in dual membership in the Honors College and the College of Education should contact the Honors College for admission information.

MINOR FIELD REQUIREMENTS (OPTIONAL)

The College offers the following minors:

Health Sciences

To graduate with a *minor in health sciences*, students must complete 18 semester hours from the following: KIN 1600; 6 sem. hrs. selected from KIN 2600, 2603, 2604, 2577; 9 sem. hrs. from KIN 3605, 3608, 3660, 4601, 4602, 4605, 4606.

Special Education: Mild/Moderate Disabilities

To graduate with a *minor in special education: mild/moderate disabilities*, students must be admitted to an initial teacher certification program. Students pursuing the minor must complete EDCI 3701, 3702, 3703, 3712, and 4705. Students desiring to obtain teaching certification in special education: mild/moderate disabilities must also complete a student teaching requirement. The pursuit of certification in special education necessitates early and continuous advising by the Office of Student Services.

Sports Studies

To graduate with a *minor in sports studies*, students must complete 18 semester hours from the following: KIN 2530, three activity courses,

and 12 sem. hrs. from the following courses: KIN 2502, 2511, 2525, 2526, 3507, 3800, 4513, 4515, 4517, 4800, MKT 3410.

PATHS TO TEACHER CERTIFICATION

LSU is a leader in teacher education reform. Extensive research and practice support varied ways to become certified as a teacher: a bachelor's program, a master's program, and a post-baccalaureate non-degree program (music and vocational education areas only). Students may choose from a bachelor's program in the college (grades PK-3, grades 1-5, grades K-12 art, grades K-12 health and physical education), in the College of Arts and Sciences (grades 6-12 English, French, history/social studies, mathematics, Spanish), in the College of Basic Sciences (grades 6-12 biological sciences, chemistry, physics), in the College of Music and Dramatic Arts (K-12 instrumental or vocal education), or in the College of Agriculture (agricultural, business, or marketing education). Students may also choose to pursue a five-year master's program offered by the College of Education for certification in grades 1-5 or a fifth year program for certification in grades 6-12. Students interested in special education/elementary grades certification should contact special education faculty in the Department of Educational Theory, Policy, and Practice.

Regardless of the route chosen, students will find that teacher education at LSU links contemporary research and practice, focuses on preparing teachers for a culturally diverse world, provides early and extended experiences in diverse educational settings, incorporates instructional technology, and prepares PK-12 teachers who truly understand children, content, and pedagogy.

Bachelor's Programs: Initial Teacher Certification

Undergraduate students eager to complete their education in four years may find the bachelor's program most attractive. The College of Education offers undergraduate programs leading to certification in grades 1-5, grades PK-3 (in collaboration with the School of Human Ecology, College of Agriculture), and K-12 (art or health and physical education). The college collaborates with the College of Arts and Sciences and the College of Basic Sciences in programs leading to certification in grades 6-12. Depending upon the area and level of certification desired, students earn bachelor's degrees from the College of Education, College of Arts & Sciences, or the College of Basic Sciences and attain Louisiana Teacher Certification in programs that combine general education, an area of focus, professional education courses, and practical experiences. These programs are designed for students who know early in their college careers that they want to become teachers and who want to enter the profession immediately following receipt of the bachelor's degree. Programs feature early and extensive connections between university-based and field-based learning and include at least one full semester of professionally supervised student teaching.

Master's Program: Initial Teacher Certification

Students who wish to spend extended time developing the expertise to enter the teaching profession with an enhanced capacity for leadership may choose the master's program which includes a full year of graduate-level professional preparation.

Students earn a master's degree and Louisiana Teacher Certification by completing 36 credit hours beyond a bachelor's degree. The program features extended experiences in diverse school settings, the support of peers who work together in small cohort groups, mentoring by graduate faculty, and the development of teacher-researcher skills.

Teacher Education Programs in Other Colleges

Secondary education concentrations in English, French, history/social studies, mathematics, and Spanish are offered collaboratively with the College of Education by the respective departments in the College of Arts and Sciences. Secondary education concentrations in biological sciences, chemistry, and physics are offered collaboratively with the College of Education by the College of Basic Sciences. Students prepare for teaching instrumental or vocal music (grades K-12) through the College of Music & Dramatic Arts and for teaching agricultural education, business education, home economics, or industrial education through the College of Agriculture.

LSU P-12 EDUCATION ADVISORY COUNCIL

The P-12 Education Advisory Council provides governance for all University programs which prepare P-12 school professionals. It is responsible for setting and achieving P-12 education goals, establishing policies, fixing responsibilities for program decision-making, identifying and utilizing resources, and facilitating continuing development and improvement of initial and advanced P-12 education programs.

Admission to Teacher Education

Undergraduate Programs

Undergraduate students may enter basic teacher education programs after 24 semester hours with a minimum 2.20 gpa, cumulative and LSU. Formal admission to a specific undergraduate teacher education program/concentration requires a 2.50 gpa, cumulative and LSU, and passing scores on the PRAXIS I: Academic Skills Assessments or minimum ACT composite of 22 or minimum SAT composite of 1030. *Admission to upper division professional education courses (3000-level and above) is restricted to students who have been formally admitted to a teacher education program/concentration.*

Master's Program (Holmes only)

Elementary Five-Year Program: Admission to the junior year cohort of the elementary certification program leading to the master's degree (Holmes Program) requires at

least 60 semester hours with a minimum 2.75 gpa and passing scores on the PRAXIS I assessments or minimum ACT composite of 22 or minimum SAT composite of 1030. Admission requirements for the Holmes master's year for elementary certification include admission to the LSU Graduate School and passing scores on PRAXIS II assessments. (See "Holmes Master's Programs Leading to Teacher Certification" for additional requirements.)

Secondary Fifth Year: Admission requirements for the Holmes master's level secondary certification program include admission to the LSU Graduate School and passing scores on the PRAXIS I assessments or minimum ACT composite of 22 or minimum SAT composite of 1030 and PRAXIS II subject area/specialty assessment(s). (See "Holmes Master's Programs Leading to Teacher Certification" for additional requirements.)

Basic Requirements for All Teacher Education Majors and Concentrations

Undergraduate teacher education students are required to meet the following requirements:

Admissions Requirements:

- Minimum grade-point average of 2.50, cumulative and LSU
- Passing scores on all parts of the Praxis I Series or minimum ACT composite score of 22 or minimum SAT composite score of 1030

Retention Requirements:

- Minimum grade-point average of 2.50, cumulative and LSU, for entry into and continuation in upper (3000/4000) level education courses, including student teaching

Degree Requirements:

- Satisfactory completion of an approved program of study as determined by all of the following: faculty of the college in which the major/concentration resides, the University, the LSU P-12 Education Advisory Council, and the Louisiana Board of Elementary and Secondary Education
- Minimum gpa of 2.50 on all work completed, cumulative and LSU*
- Passing scores on all required parts of the Praxis II Series
- Grade of "C" or higher in course work as specified by the Louisiana Board of Elementary and Secondary Education

* NOTE: Minimum 2.75 gpa required in the five-year master's program leading to elementary teacher education.

COLLEGE OF EDUCATION • UNDERGRADUATE DEGREES		
Departments	Curricula	Degrees
Department of Educational Theory, Policy, and Practice	Early Childhood Education: PK-3 Teacher Certification	Bachelor of Science
	Elementary Grades Education	
	Secondary Education (Art)	
Department of Kinesiology	Kinesiology	
	Sport Administration	

PRAXIS

Satisfactory scores on the PRAXIS Series are required for teacher certification by the state of Louisiana. *Students in teacher education curricula or concentrations must pass all required sections of the PRAXIS Series prior to graduation.*

Undergraduate students must have passing scores on the PRAXIS I assessments or minimum ACT composite of 22 or minimum SAT composite of 1030 to be formally admitted to a specific undergraduate teacher education program/concentration. * Undergraduate students should take the required PRAXIS II assessments during the last semester of course work *prior* to student teaching.

Undergraduate students in the Holmes elementary certification program leading to the master's degree must have passing scores on the PRAXIS I assessments or minimum ACT composite of 22 or minimum SAT composite of 1030 to be formally admitted to the junior year cohort of this five-year program. * Students must present passing scores on required PRAXIS II assessments to be formally admitted to the master's year. Students must take all required PRAXIS II assessments by the March testing during their senior year for timely receipt of test scores.

Master's level students in the Holmes secondary certification program must have passing scores on both the PRAXIS I assessments or minimum ACT composite of 22 or minimum SAT composite of 1030 and the appropriate PRAXIS II subject area/specialty test(s) to be formally admitted to the master's year. Students must take the required PRAXIS II: Principles of Learning and Teaching Test(s) by the March testing during the master's year for timely receipt of test scores. Passage is required for program completion/graduation.

*See "Admission to Teacher Education" and "Holmes Master's Programs Leading to Teacher Certification" for additional requirements for admission. Contact the Office of Student Services, College of Education, for additional information on the PRAXIS Series.

STUDENT TEACHING

Application for Student Teaching

Application for student teaching must be made to the Office of Student Services no later than three weeks after classes begin in the semester *prior* to student teaching. Late applicants cannot be guaranteed consideration.

Requirements for Student Teaching

The student teaching semester is scheduled as an all-day, all-week experience. LSU requirements for the student teaching experience far surpass the state minimum requirement of 270 clock hours, 180 of which must be actual teaching with a substantial portion thereof on an all-day basis.

Course requirements must be completed prior to student teaching, other than those courses requiring concurrent enrollment with student teaching. No student may schedule course work in addition to that required during the student teaching semester(s) without prior approval by the dean of the College of Education through the Office of Student Services. Students are advised to schedule no more than 15 hours of employment weekly during student teaching. To be permitted to student teach, students must also meet the following requirements:

- LSU and cumulative gpas of 2.50 with no grade lower than "C" in professional education courses *and* in other courses as required for certification, regardless of institution(s) attended.
- Proficiency in written expression.

DEPARTMENTS AND SCHOOLS

DEPARTMENT OF EDUCATIONAL THEORY, POLICY, AND PRACTICE

OFFICE • 223 Peabody Hall
 TELEPHONE • 225-578-6867
 FAX • 225-578-9135

The Department of Educational Theory, Policy, and Practice offers undergraduate and graduate programs in curriculum and instruction and in educational leadership, research, and counseling. These programs prepare P-12 educational professionals to become reflective practitioners, effective professionals, and inquiring pedagogues. Among graduate programs offered are those in educational leadership and research, school and community counseling, K-12 and higher education administration, educational research methodology, and educational technology. The department has as its mission the preparation of professional educational leaders and scholars knowledgeable in contemporary issues in education, creative in their efforts to address challenges in education and the community, and skilled in addressing the needs of an increasingly diverse clientele in various educational and human service arenas.

BACHELOR'S PROGRAMS

CURRICULUM IN EARLY CHILDHOOD EDUCATION: PK-3 TEACHER CERTIFICATION

TOTAL SEM. HRS. • 125-127

FRESHMAN YEAR	SEM. HRS.
Biological Sciences 1001	3
EDCI 1000	3
English 1001 or 1004	3
Geography 1001 or 1003.....	3
Geology 1001	3
Human Ecology 1000.....	3
Mathematics 1021 or 1023 and 1100	6-8
Select 3 hrs. from ART 1001 or 1011 or ARTH 1440 or 2470 or Music 1751 or 1755 or 1799 or 2000	3

Select 3 hrs. from Biological Sciences 1002 or Geology 1003.....	3
Political science 2051.....	3
	—
	33-35

SOPHOMORE YEAR	SEM. HRS.
English 2000.....	3
EDCI 2030, 2081, 2700.....	7
ELRC 2507.....	3
Six hrs. chosen from English courses on the general education humanities list.....	6
History 2055 or 2057.....	3
Human Ecology 2065, 2083.....	6
Mathematics 1201 and 1202.....	6
	—
	34

JUNIOR YEAR	SEM. HRS.
EDCI 3000.....	3
Human Ecology 3055, 3056.....	7
PROFESSIONAL PRACTICE	
BLOCK I: PK/K Human Ecology 3381, 3382, 3383.....	9
PROFESSIONAL PRACTICE	
BLOCK II: Grades 1-3 EDCI 3481, 3482, 3483.....	9
	—
	28

SENIOR YEAR	SEM. HRS.
PROFESSIONAL PRACTICE	
BLOCK III: PK/K Human Ecology 4381, 4382.....	15
PROFESSIONAL PRACTICE	
BLOCK IV: Grades 1-3 EDCI 4481, 4482.....	15
	—
	30

CURRICULUM IN ELEMENTARY GRADES EDUCATION

TOTAL SEM. HRS. • 127-135

FRESHMAN YEAR	SEM. HRS.
Anthropology 1003 or 2051.....	3
ART 1001 or 1011 or ARTH 1440 or 2470 or Music 1751 or 1755 or 1799 or 2000.....	3
Biological Sciences 1001, 1002, 1005.....	8
English 1001 or 1004 or Honors 1001.....	3
Geography 1001 or 1003.....	3
History 2055 or 2057.....	3
Mathematics 1021 or 1023 and 1100.....	6-8
Political Science 2051.....	3
	—
	32-34

SOPHOMORE YEAR	SEM. HRS.
Area of concentration courses.....	0-6
EDCI 2030, 2271, 2400, 2700.....	12
ELRC 2507.....	3
English 2000.....	3
English 2148 or 2220.....	3
Mathematics 1201, 1202.....	6
Psychology 2060.....	3
	—
	30-36

JUNIOR YEAR	SEM. HRS.
Area of concentration courses.....	0-3
Geography 2050.....	3
EDCI 3000.....	3
Psychology 2076.....	3
English 2270 or 2593 or 2673.....	3
Kinesiology 2577.....	4
Physical Science 1001.....	3

Professional Practice Block I (EDCI 3127, 3137, 3200, 4460).....	15
	—
	34-37

SENIOR YEAR	SEM. HRS.
Area of concentration courses.....	12-9
History 3071.....	3
Geology 1001, 1601.....	4
Professional Practice Block II (EDCI 3124, 3125, Mathematics 2203).....	12
	—
	31-28

Areas of Concentration

◆ Four-Year Teacher Certification, Grades 1-5 (12 hours)

Initial certification at the undergraduate level, includes student teaching experience.

Required Course—EDCI 3625

◆ Holmes Certification, Grades 1-5 (18-19 hours)

This concentration leads to fifth-year master's degree in education with initial certification.

Required Courses—Select 18 hours from academic concentration. (List of approved concentrations available in the Office of Student Services.)

CURRICULUM IN SECONDARY EDUCATION (Art area of concentration only)

This program is currently suspended.

TOTAL SEM. HRS. • 128

FRESHMAN YEAR	SEM. HRS.
English 1001 or 1004.....	3
Mathematics 1021 or 1023 or 1029.....	3
Mathematics 1022 or 1100 or 1431 or 1435 or 1441 or 1550 or 1552.....	3
General education biological sciences elective	3
General education physical sciences elective	3
General education social sciences elective....	3
Kinesiology electives.....	4
Area of concentration courses.....	9
	—
	31

SOPHOMORE YEAR	SEM. HRS.
English 2000.....	3
General education English electives.....	6
History 2055 or 2057.....	3
General education humanities elective.....	3
General education arts elective.....	3
EDCI 1000.....	3
Psychology 2078.....	3
Area of concentration courses.....	9
	—
	33

JUNIOR YEAR	SEM. HRS.
General education sciences sequence.....	3
EDCI 3136, 4460.....	6
EDCI 4465 or 4269 or 4470*.....	3
Area of concentration courses.....	15
Social sciences electives.....	6
	—
	33

SENIOR YEAR	SEM. HRS.
General education sciences sequence.....	3
EDCI 4466 or 4272 or 4472**.....	3
EDCI 3630 or 3635***.....	12
Area of concentration courses.....	13
	—
	31

Area of Concentration

◆ Art (46 hours)

Required Courses—three semester hours from this list fall under general education requirements, leaving 45 semester hours to fulfill area of concentration in art requirements: ART 1011, 1012, 1361 or 1371, 1440, 1441, 1661, 1847, 1848, 1849, 2879, 4466 (33); ART history elective (3); EDCI 2271, 2272, 4273 (9); PHIL 2023 (3).

Approved Elective—select one hour from the list of approved electives available from the Office of Student Services, College of Education.

HOLMES MASTER'S PROGRAMS LEADING TO TEACHER CERTIFICATION

Elementary Grades Five-Year Program

- Students may enter the elementary education basic program after completing at least 24 hours of degree credit courses with a 2.50 gpa.
- Students who are in the elementary education basic program should apply for admission to the elementary teacher education junior-year cohorts on or before **March 1** of the sophomore year. Late applicants cannot be guaranteed consideration.
- Admission to junior-year cohorts in the elementary education program will be on a selective basis. Students will be selected from those candidates who meet the cumulative gpa admission requirement of 2.75 or higher and passing scores on the PRAXIS I assessments or minimum ACT composite of 22 or minimum SAT composite of 1030. *Meeting the minimum admission requirement does not guarantee admission to the elementary education junior-year cohort.*
- Students not admitted into junior-year cohorts by the time they have completed 75 hours may be dropped from consideration for the program.
- Students must maintain at least a 2.75 gpa each semester to continue in good standing in an elementary education cohort. Students who fall below a 2.75 gpa will be placed on probation. Students who remain on probation for two consecutive semesters will be dropped from the Holmes program.
- No final grade lower than "C" will be accepted in any professional or other course as required for certification, regardless of a student's cumulative gpa.

Elementary Grades Graduate Year (Holmes only)

Admission to the Holmes elementary education graduate year requires:

- Completion of all undergraduate course work with a gpa of at least 3.00 and all graduate courses with a gpa of at least 3.00;

- Completion of all undergraduate professional education course work and other courses as required for certification with no grade lower than a "C";
- Acceptable scores on GRE;
- Passing scores on PRAXIS I or minimum ACT composite of 22 or minimum SAT composite of 1030 and all required PRAXIS II tests; and
- Admission to the LSU Graduate School.

Completion of minimum requirements, including an undergraduate degree in elementary education and admission to the LSU Graduate School, does not guarantee admission to the graduate year teacher education program. A College of Education admissions panel will select from among qualified applicants those students to be admitted into the fifth-year cohorts.

Students should apply for admission to the elementary education graduate year on or before **March 15** of the senior year. Students must take all required parts of PRAXIS II by **March** of the senior year for timely receipt of scores.

Secondary Grades Fifth Year Program

- Graduate year, subject-specific cohorts will be formed in the College of Education for graduate study in secondary education programs leading to initial teacher certification. Secondary teaching areas include English, mathematics, social studies, and the sciences.
- Undergraduate students interested in the fifth-year teacher education program should contact the College of Education Office of Student Services upon admission to the University. Informal advising will be shared by the College of Education and the college in which the student's academic major is located.
- Applicants may include candidates with degrees, as well as seniors finishing their programs in the various academic areas.

Admission requirements include:

- Acceptable scores on GRE;
- Completion of all undergraduate and graduate course work with a gpa of at least 3.00;
- Passing scores on the PRAXIS I assessments or minimum ACT composite of 22 or minimum SAT composite of 1030 and on the appropriate PRAXIS II subject area/specialty test(s);
- Completed materials for application to the fifth-year, subject-specific cohorts submitted to the Office of Student Services on or before **March 15**; and
- Admission to the LSU Graduate School
Meeting minimum requirements, including an undergraduate degree in an appropriate field and admission to the LSU Graduate School, does not guarantee admission to the fifth-year teacher education program. A College of Education admissions panel will select from among qualified applicants those students to be admitted into the subject-specific, fifth-year cohorts.

DEPARTMENT OF KINESIOLOGY

OFFICE • 112 Long Fieldhouse
TELEPHONE • 225-578-2036
FAX • 225-578-3680

The Department of Kinesiology (KIN) provides undergraduate and graduate programs for students interested in the art and science of human movement. Undergraduate curricula are offered in kinesiology and in sport administration. Concentrations in the kinesiology curriculum include athletic training, sports studies, fitness studies, human movement science, and K-12 health and physical education. Concentrations in the sport administration curriculum include sport commerce and sport leadership. Graduates pursue careers in K-12 educational settings, health and fitness programs, sport agencies and businesses, and professional programs such as allied health and medicine.

The department offers two bachelor's degrees: the Bachelor of Science in Kinesiology and the Bachelor of Science in Sport Administration. Requirements for each follow.

Admission into the Department of Kinesiology for the Bachelor of Science in Kinesiology

Students wishing to enter the Department of Kinesiology Bachelor of Science degree program must satisfy the following minimum requirements:

- 24 earned semester hours with a 2.50 cumulative and LSU gpa;
- *English proficiency*—advanced placement in, credit for, or a grade of "C" or better in ENGL 1001 (1004);
- *Math proficiency*—advanced placement in, credit for, or a grade of "C" or better in MATH 1021 and 1022; and
- *Biology proficiency*—advanced placement in, credit for, or a grade of "C" or better in BIOL 1201, 1208, 1202, and 1209.

Students intending to concentrate in *Health and Physical Education Certification* must meet the minimum criteria and have acceptable scores on the PRAXIS I or minimum ACT composite of 22 or minimum SAT composite of 1030 to be formally admitted to the Health and Physical Education Certification Program. *Admission of students to upper division professional education courses (3000-level and above) is restricted to students who have been formally admitted to the College of Education. See "Requirements for Student Teaching in Secondary and K-12 Subjects" for additional requirements.*

Completion of Degree

A degree in kinesiology is conferred when the following conditions have been met:

- Completion of a minimum of 121-131 semester hours with cumulative and LSU averages of 2.50 on all work taken, with no grade less than "C" in specialized academic courses and concentration courses
- Completion of the final 25 percent of the program in residence in the College of Education on the LSU campus
- Completion of the appropriate approved curriculum
- Proficiency in written expression

CURRICULUM IN KINESIOLOGY

TOTAL SEM. HRS. • 121-131

FRESHMAN YEAR	SEM. HRS.
Biological Sciences 1201, 1208, 1202, 1209. (Biology 1208 & 1209 not required for H&PE concentration)	6-8
English 1001 <i>or</i> 1004 <i>or</i> HNRS 1001 <i>or</i> 1101	3
Kinesiology activity course(s)	2
(H&PE concentration must choose Kinesiology 1801 (Fitness Studies must choose Kinesiology 1804)	
Mathematics 1021, 1022	6
General education social sciences courses	6
(H&PE concentration must choose Psychology 2000 for 3 of 6 hours)	
Kinesiology 2501	3
General education arts course	3
Area of concentration course	3
	—
	32-34

SOPHOMORE YEAR	SEM. HRS.
Biological Sciences 2160	3
English 2000	3
Kinesiology 2500	3
Kinesiology activity course(s)	2
(H&PE concentration must choose Kinesiology 1802 (Fitness Studies must choose one of KIN 1801, 1802, 1803)	
Kinesiology 2504	3
Physics 2001	3
Communication studies 2060	3
Area of concentration courses	9
	—
	29

JUNIOR YEAR	SEM. HRS.
General education humanities courses	6
Kinesiology 3513	3
Kinesiology 3502	3
Area of concentration courses	23-24
	—
	35-36

SENIOR YEAR	SEM. HRS.
Kinesiology 3514, 3515, 4520	9
Area of concentration courses	13-23
	—
	22-32

Areas of Concentration

◆ Athletic Training (59 hrs.)

Special Program Requirements

Students intending to concentrate in *Athletic Training* must be selected for admission after meeting the minimum departmental and concentration criteria. Because of a limited number of clinical education sites, meeting all criteria for admission does not guarantee acceptance into the concentration. Admission requirements include the following:

- Completion of the Pre-Professional Orientation Meeting prior to obtaining the 100 hours of observational clinical experiences with the LSU Athletic Training staff. Dates and times for each meeting are available on the Department of Kinesiology Web site or by contacting the Director
- Evaluation of performance during observational experience
- Grade of "B" or better in KIN 2503
- Interview with program faculty

- Ability to comply with the Athletic Training's concentration in technical standards, with or without accommodation, which establishes the essential qualities considered necessary to achieve the knowledge, skills, and competencies of an entry-level athletic trainer. A copy of the technical standards can be found on the Department of Kinesiology Web site.
- Completion of a physical examination through the LSU Student Health Center (forms obtained in the Pre-Professional Orientation Meeting)
- Favorable completion of an application packet provided by the Director of the Athletic Training Education Program after completing the Pre-Professional Meeting. The deadline to submit the application packet is 12:00 pm on the second Thursday in April. It must be addressed to the Director of the Athletic Training Education Program.

Academic Probation/Dismissal

All students admitted to the Professional Phase of the Athletic Training Concentration program must adhere to the program retention policies as stated in the Athletic Training Student Handbook. The following policies apply to all students admitted to the Professional Phase:

- A student who drops below a cumulative 2.50 gpa after being accepted to the Professional Phase of the program will be placed on academic probation during the following semester. The student may apply for re-entry after raising the cumulative gpa to 2.50 or better. Approval for re-entry is not guaranteed.
- A student who receives a grade lower than a "B" in any athletic training concentration course will be required to retake the course. Students may repeat a course once to achieve a "B" grade, but they will not be permitted to continue in those courses that require the deficient course as a prerequisite.
- A student who fails to maintain the required gpa, violates policies on established clinical site requirements, or violates codes of moral/ethical conduct may be dismissed from the Professional Phase of the concentration program. (See current policies in the Athletic Training Student Handbook, LSU Athletic Training Room Policies & Procedures Manual, and Code of Ethics of the National Athletic Trainers Association.)

Any student requesting readmission to the Professional Phase of the concentration must follow the appeal process as outlined in the current Athletic Training Student Handbook.

Students graduating with the Athletic Training concentration are eligible to sit for the Board of Certification (BOC) athletic training certification examination in order to become a Certified Athletic Trainer (ATC).

Required Courses (47 hrs.)—CSC 1100 or ISDS 1100 or EXST 2000, KIN 2503, 2505, 2506, 2601, 3500, 3501, 3505, 3508, 3509, 3512, 3608, 4512, 4605, HUEC 2010, EXST 2201
Approved Electives (12 hrs.)—Select 12 hrs. from a list of approved electives available from the Office of Student Services, College of Education.

◆ Fitness Studies (49 hrs.)

Required Courses (19 hrs.)—KIN 3525, 3534, 3535, 4512, 4538, 4606
Twelve hours from: KIN 3517, 3605, 3608, 3660, 4501, 4509, 4513, 4525, 4601, 4602, 4605, 4900; BIOL 2083; CHEM 1201; EXST 2201; HUEC 2010; PSYC 3050, 4072
Approved Electives (18 hrs.)—Select 18 hours from a list of approved electives available from the Office of Student Services, College of Education.

◆ Health and Physical Education Certification (53 hrs.)

Required Courses (47 hrs.)—KIN 1803, 1804, 1600, 2512, 2540, 2601, 3510, 3516, 3518, 3609, 4512, 4575; PSYC 4070; EDCI 3136, 4630
Select six hours from: KIN 2600, 2603, 2604, 3603, 3604, 3605, 3608, 3660, 4600, 4601, 4602, 4605

◆ Human Movement Science (55 hrs.)

Required Courses (18 hrs.)—KIN 3517, 3534, 4512; SOCL 2201 or EXST 2201; PHYS 2002, 2108, 2109
Electives (16-23 hrs.)—Select 16-23 hours of electives.
Select one from the following five areas:
Occupational Therapy (14 hrs.)—CHEM 1201, CSC 1100 or ISDS 1100, KIN 2601, 3500, PSYC 3082, SOCL 2001
Physician's Assistant (16 hrs.)—CSC 1100 or EXST 2000, CHEM 1201, 1202, 1212, KIN 3500, BIOL 2051
Pre-Physical Therapy Graduate Study (20-21 hrs.)—CHEM 1201, 1202, 1212; PSYC 2070, 3082; BIOL 2051 or 3090 or 4104; ENGL 2001 or 2002 or 3003
Premedicine (16 hrs.)—CHEM 1201, 1202, 1212, 2261, 2262, 2364
Prekinesiology Graduate Study (15 hrs.)—CSC 1248; PHIL 4951; nine hours of approved electives (list available from the department)

◆ Sports Studies (52 hrs.)

Required Courses (5 hrs.)—KIN 1133, 1156, 2540
Three hours from: PHIL 2018, 2025; POLI 2057; PSYC 2000, 2078; HUEC 2010; SOCL 2001
Six hours from: KIN 3507, 3534; SOCL 3501, 3601, PHIL 3001, 3002, 4015; PSYC 3082, 4070; ELRC 4006, 4400
Three hours from: KIN 2511, 2515, 2516, 2517, 2518, 2519, 2525, 2526, 2530
Nine hours from: KIN 1600, 2600, 2602, 2603, 2604, 2577, 3603, 3604, 3605, 3608, 3660, 4600, 4601, 4602, 4605
Two hours from: KIN 1126, 1801, 1802, 1803, 1804
Approved Electives (24 hrs.)—Select 24 hrs. from a list of approved electives available from the Office of Student Services, College of Education.

Admission into the Department of Kinesiology for the Bachelor of Science in Sport Administration

Students wishing to enter the Department of Kinesiology Bachelor of Science degree

program in Sport Administration must satisfy the following minimum requirements:

- 24 earned semester hours with a 2.2 cumulative and LSU gpa;
- *English proficiency* - advanced placement in, credit for, or a grade of "C" or better in ENGL 1001 (1004);
- *General Education Math proficiency* - advanced placement in, credit for, or a grade of "C" or better in 6 hours of Analytical Reasoning; and
- *General Education Natural Science proficiency* - advanced placement in, credit for, or a grade of "C" or better in 3 hours of General Education Natural Science.

Completion of Degree

A degree in sport administration is conferred when the following conditions have been met:

- Completion of 120 hours with cumulative and LSU averages of 2.2 on all work taken, with no grade less than "C" in specialized academic courses and concentration courses
- Completion of the final 25 percent of the program in residence in the College of Education on the LSU campus
- Completion of the appropriate approved curriculum
- Proficiency in written expression

CURRICULUM IN SPORT ADMINISTRATION

TOTAL SEM. HRS. • 120

FRESHMAN YEAR	SEM. HRS.
English 1001 or 1004	3
General education analytical reasoning courses (min. 3 hrs. Math).....	6
General education art course.....	3
General education humanities courses.....	6
General education social sciences courses (3 hrs. Economics).....	6
General education natural science course	3
Kinesiology 2510	3
	30

SOPHOMORE YEAR	SEM. HRS.
General education natural science courses.....	6
Communication Studies 2060.....	3
Kinesiology 2501, 2502, 2530.....	9
Accounting 2000	3
English 2000.....	3
Area of concentration courses.....	3
Free electives	3
	30

JUNIOR YEAR	SEM. HRS.
Kinesiology 3800, 3801, 3802.....	9
Area of concentration courses.....	12
Free electives.....	9
	30

SENIOR YEAR	SEM. HRS.
Kinesiology 3804, 4513, 4517, 4835.....	15
Area of concentration courses.....	9
Free electives.....	6
	30

Areas of Concentration

◆ Sport Commerce (24 hrs.)

Required Courses (12 hrs.)—ISDS 1100, MGT 3200, MKT 3401, KIN 4515

Select 12 hours from the following: CMST 2061; BLAW 3201, 3230; MC 2020; KIN 2525, 2526, 2603, 3507, 4800; AAAS 2511/SOCL 2511; SW 4500; ELRC 4400; SOCL 4301.

◆ Sport Leadership (24 hrs.)

Required Courses (12 hrs.)—HRE 2723, 3723, 4723; KIN 4515

Select 12 hours from the following: HRE 4039, 4301, 4504, 4573; ELRC 4002, 4003, 4400; ENVS 1126; HIST 2061, 4078, 4079; KIN 2525, 2526, 2603, 3507, 4800.

UNIVERSITY LABORATORY SCHOOL

OFFICE • 109 Laboratory School
TELEPHONE • 225-578-3221
FAX • 225-578-3326
WEB SITE • www.uhigh.lsu.edu

The University Laboratory School, an integral part of the College of Education, provides for observation, research, and pre-service field experiences in grades K through 12. The Laboratory School, therefore, maintains a staff of teachers for the purpose of instructing children, demonstrating teaching procedures to pre-service teachers and observers, developing innovative programs, conducting educational research, acquainting pre-service and in-service teachers with approved and tested teaching procedures and viewpoints, and mentoring pre-service teachers.

The Laboratory School serves as a demonstration center for educational methodology. Faculty members demonstrate reflective practices through classroom research relative to the development of concepts and principles. Graduate and undergraduate students observe and participate in the use of instructional and testing materials. Graduate students and University faculty utilize the school for research studies.

The Lab School is the first International Baccalaureate Diploma Programme school in the state of Louisiana and has adopted the complete K-12 program: PYP - Primary Years, MYP - Middle School Years through Grade 10, and IB - Grades 11 & 12. IB is a model curriculum that stresses creativity, inquiry, service, and internationalism.

A limited number of pupils can be accommodated in the Laboratory School. The admission process is designed to provide a diverse student population representative of the general population. Tuition and activity fees are charged for each pupil in grades K through 12.

COLLEGE OF Engineering

RICHARD J. KOUBEK, *Bert S. Turner
Professor; Dean*

KELLY A. RUSCH, *Formosa Plastics
Corporation Endowed Professor of
Engineering; Associate Dean of Research and
Diversity*

WARREN N. WAGGENSPACK, Jr., *E. S.
"Ned" Adler Memorial Endowed Professor;
Associate Dean for Academic Programs*

LISA LAUNEY
Assistant Dean

LISA B. FONTENOT
Counselor

SANDRA HARRIS
Counselor

BARBARA W. REONAS
Counselor

3304 Patrick F. Taylor Hall
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FAX 225-578-9162

Engineering is defined by the American Society for Engineering Education as "...the profession in which a knowledge of the mathematical and natural sciences gained by study, experience, and practice is applied with judgment to develop ways to utilize the materials and forces of nature economically for the benefit of mankind." Consistent with this definition, the College of Engineering prepares individuals for professional careers in engineering research, development, design, operation, or management industry, business, education, and government. This preparation is accomplished through education in a chosen engineering discipline consisting of general education fundamentals and design, mathematics, physical and life sciences, English composition, the arts, humanities, and social sciences. The college also offers a degree in Construction Management that combines technical and business courses to produce construction industry professionals.

The College of Engineering includes seven degree granting departments, the Center for Rotating Machinery, the Hazardous Substance Research Center (South and Southwest), the Louisiana Transportation Research Center, the Louisiana Water Resources Research Institute, and the Gas Turbine Innovation and Energy Research Center. The faculty is actively engaged in design, research, and problem solving in well-equipped facilities for research and teaching. Departments within the college, the various undergraduate curricula, and the degrees that are offered are shown in the chart on the following page.

PROFICIENCY REQUIREMENTS

Mathematical proficiency is essential to engineers and to engineering education. Accordingly, students who plan to study engineering should schedule all appropriate mathematics courses available to them in high school. Placement tests are given to all incoming freshmen, and those who do not qualify to begin university mathematics at the level prescribed in the freshman engineering program cannot expect to complete requirements for a degree in the nominal length of time. Credit for mathematics courses preliminary to analytical geometry and calculus may not be applied toward the engineering degrees in the College of Engineering.

Proficiency in college-level mathematics and physics is essential to successful completion of upper-division engineering courses. Engineering students must earn a minimum grade of "C" in MATH 1550, 1552, and PHYS 2101 before they enroll in any engineering course numbered above 2999. However, CE 3700, IE 3201, IE 4462, and PETE 3025 may be taken.

English proficiency is defined as a grade of "C" or better in all required English courses in the student's curriculum (ENGL 1001 and 2000).

More stringent requirements may be imposed by individual departments. Refer to the curricular requirements of each department.

ADMISSION REQUIREMENTS

Admission to the University does not constitute acceptance into the College of Engineering or into a particular curriculum within this college. Where enrollment may exceed the facilities of a department, it may be necessary to limit the size of the classes in that curriculum. In such cases, the department establishes criteria for admission with approval of the University administration.

Students may enter the college from University College or by transfer from another division of LSU or from another approved college or university.

Students in the *LSU Center for Freshman Year* who meet the following criteria will be admitted to the college:

- 24 or more semester hours of earned credit in courses numbered 1000 or above;
- LSU and cumulative gpa of 2.00 or better;
- credit in MATH 1550 with a grade of "C" or better.

Other students seeking admission from another division of LSU or by transfer from another college or university must also meet the above requirements. Students with more than 60 hours attempted will be considered for admission on the basis of the dean's evaluation of the entire academic record. Transfer students from other institutions must also meet University admission requirements as detailed in this catalog in the *Undergraduate Admissions* chapter.

TRANSFER OF CREDIT FROM OTHER INSTITUTIONS

In this college, transfer credits accepted by the Office of Undergraduate Admissions shall be valid for degree credit only to the extent to which they satisfy courses in the curricula of the college. Transfer credits in junior and senior engineering courses will be accepted only if taken in programs accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; telephone 410-347-7700.

Credit in courses in which grades of "D" have been earned is not accepted for transfer toward the degree requirements, if the course is taken outside the LSU System. Students enrolled in this college who wish to obtain credits from other colleges or universities (including other campuses of the LSU System) and who plan to use such credits toward degree requirements should obtain *prior approval* in writing on a specific-course basis from the dean's office.

COLLEGE OF ENGINEERING • UNDERGRADUATE DEGREES

Departments	Curricula	Degrees
Biological & Agricultural Engineering	Biological Engineering	Bachelor of Science in Biological Engineering
Gordon A. and Mary Cain Department of Chemical Engineering	Chemical Engineering	Bachelor of Science in Chemical Engineering
Civil & Environmental Engineering	Civil Engineering	Bachelor of Science in Civil Engineering
	Environmental Engineering	Bachelor of Science in Environmental Engineering
Construction Management & Industrial Engineering	Construction Management	Bachelor of Science in Construction Management
	Industrial Engineering	Bachelor of Science in Industrial Engineering
Electrical & Computer Engineering	Electrical Engineering	Bachelor of Science in Electrical Engineering
	Computer Engineering	
Mechanical Engineering	Mechanical Engineering	Bachelor of Science in Mechanical Engineering
Craft & Hawkins Department of Petroleum Engineering	Petroleum Engineering	Bachelor of Science in Petroleum Engineering

DEGREE REQUIREMENTS

It is the student's responsibility to qualify for the bachelor's degree by meeting these requirements:

- Completing one of the established curricula—any substitutions from the curricula as published must have written approval of the department chair and the dean's office.
- Achieving a 2.00 average, as required by the University, for all work taken at LSU and on all work attempted at U.S. institutions.
- Achieving a 2.00 average on all courses attempted in the major department at LSU and on all work attempted in the major field at U.S. institutions (with the exception of certain courses offered by the major departments for non-majors only). Civil engineering students must achieve a 2.00 average in all civil engineering (CE) and environmental engineering (EVEG) courses and on all work completed in the major field at U.S. institutions. Environmental engineering students must achieve a 2.00 average in all chemical engineering (CHE), civil engineering (CE), and environmental engineering (EVEG) courses and on all work completed in the major field at U.S. institutions. Industrial Engineering students must achieve a 2.0 average in all industrial engineering (IE) courses and construction management (CM 2141) and on all work completed in the major field at U.S. institutions).
- Successfully completing a minimum of 30 hours of residence in the College of Engi-

neering. These 30 hours are included in the University requirement that a minimum of 25 percent of the hours applied toward a degree be earned while in residence at the university. (These residence hours must include 15 hours of required major department courses or approved technical electives at the 3000 or 4000 level. Students must complete nine hours of these courses at the 4000 level in the major. The individual courses used to satisfy the residency requirement must be approved by the department chair.)

- Initiating the checkout procedure with the departmental advisor in the semester prior to the one in which the degree is to be awarded. The checkout is completed only when approved by the dean's office and the Office of the University Registrar.

COLLEGE POLICY FOR "D" GRADES AND REPETITION OF COURSES

Only those courses in which grades of "D" or "F" were earned may be repeated. Courses in which a grade of "F" were earned may be repeated only as allowed by the University as detailed in the "Undergraduate Degree Requirements" chapter of this catalog. A student who earns a "D" or "F" in a course in which a minimum grade of "C" is required must register for the course again in the next regular semester in which the student is enrolled and the course is offered. Students within 24 hours of graduation cannot duplicate sophomore-level courses in the major field.

READMISSION

A student seeking readmission to this college must submit an application for admission. The dean, with recommendation of the department in which the student seeks admission, will determine whether readmission is granted and may prescribe the conditions for reinstatement.

CORRESPONDENCE CREDITS

Correspondence courses to be used for degree credit must be approved by the office of the dean. Students must see a counselor in the Dean's Office to enroll and establish a Dean's Deadline for completion of the course. Consistent with University regulations, students may earn no more than one-fourth of the number of hours required for the bachelor's degree through correspondence study. In addition, no more than six hours of credit earned through correspondence study may be applied to a student's general education requirement.

Students not registered in campus courses may enroll in correspondence courses for degree credit; however, students who have been dropped from the University may not enroll in correspondence courses for degree credit.

Students registered in the University may enroll in a maximum of 21 semester hours of combined correspondence and campus course work during a regular semester and a maximum of 12 hours during the summer. Only in exceptional cases will students be allowed to enroll in correspondence course work during the semester they plan to graduate.

MINOR FIELD REQUIREMENTS (OPTIONAL)

A student may earn a minor in a second field. The specific requirements are determined by the department offering the minor. Students who plan to minor in a second field must see a counselor in the dean's office to initiate the proper procedures. A student must earn a minimum 2.00 cumulative gpa in the minor field.

► Aerospace Engineering

To earn a *minor in aerospace engineering*, a student must complete ME 3834 or equivalent, CE 3400, three aerospace core courses, and one aerospace related course chosen from an approved list of aerospace technical electives. A grade of "C" or better in each course is required.

► AVATAR Minor in Digital Media – TECH

To earn a *AVATAR minor in digital media–TECH* a student must complete 21 credit hours of coursework. These must include: CSC 1253, CSC 1350 or IE 2060; one course from ART 1001, 1011, ARTH 2470, MUS 1731, 1751, 1799, ENGL 2009; nine credit hours of approved engineering and/or science electives; three credit hours of approved arts electives; and the three credit hour Tech AVATAR capstone course, EE 4859.

► Biological Engineering

Any student not majoring in biological engineering may obtain a *minor in biological engineering* by completing each of these courses with a grade of "C" or better: BE 3340, 4303, 4341, 4380; BIOL 1201, 1208, 1202, 1209, and 2051.

► Construction Management

To graduate with a *minor in construction management*, non-majors must complete CM 1010, 2012, 2121, and nine additional hours of CM courses numbered above CM 2121. Registration in any CM course above CM 2121 is restricted to students admitted to a senior college with a declared CM major or minor. A grade of "C" or better is required in each course.

► Electrical and Computer Engineering

Any student not majoring in electrical or computer engineering may obtain a *minor in electrical and computer engineering* by completing each of these courses with a grade of "C" or better: EE 2120, 2130, 2230, 2720, 2730, 3610, 3750 and six additional hours of

electrical engineering course work *excluding* EE 2950, 3060, 3061, 3070 and 3950.

► Environmental Engineering

To earn a *minor in environmental engineering*, students in the College of Engineering must complete EVEG 3200 and 3110 and five courses chosen from a list of approved courses available in the dean's office.

► Materials Science and Engineering

To earn a *minor in materials science and engineering*, a student must complete ME 2733, 3701, 4723, 4743, and three additional courses chosen from an approved list of technical electives. A grade of "C" or better in each course is required.

► Mechanical Engineering

To earn a *minor in mechanical engineering*, a student must complete 18 semester hours of credit in mechanical engineering with a grade of "C" or better in each course. At least six hours must be at the 4000 level.

► Nuclear Power Engineering

To earn a *minor in nuclear power engineering*, a student must complete ME 3834 or equivalent, ME 4433, three nuclear power core courses, and one nuclear power related course chosen from an approved list of nuclear power technical electives. A grade of "C" or better in each course is required.

Only mechanical engineering majors are expected to complete this minor with the stated 18-19 credit hours. Students majoring in other disciplines may require more credit hours than the stated ones because of the prerequisites.

► Occupational Health and Safety

To earn a *minor in occupational health and safety*, the student must complete IE 3302, 4461, 4462, and three courses from an approved list available in the dean's office. All courses must be completed with a grade of "C" or better. Interested students should contact the dean's office or the Department of Construction Management and Industrial Engineering.

► Quality and Reliability Engineering

To earn a *minor in Quality and Reliability Engineering*, a student must currently be enrolled in an engineering degree program, and must complete IE 3302,¹ 4362, 4453, and 4540 and two courses from the following: IE 4485,² 4490, 4785,³ ME 4733, and 4763. All courses for the minor must be completed with a grade of "C" or better. For additional information, contact the Department of Construction Management and Industrial Engineering.

¹ *Other engineering programs at LSU have basic probability and statistics courses which may be substituted. Contact the Department of Construction Management and Industrial Engineering.*

² *ECE and ME majors may be able to substitute combination of other courses in their program for this course. Contact the*

Department of Construction Management and Industrial Engineering.

³ *Topic must be in the area of quality, reliability, or maintenance engineering. It is the student's responsibility to find a supervising faculty member.*

► Structural Engineering

To earn a *minor in structural engineering*, a student must complete CE 3415, 4400, 4410, 4430 or 4460, 4435, and four additional courses chosen from an approved list of technical electives available in the dean's office. A grade of "C" or better in each course is required.

► Sugar Engineering

To earn a *minor in sugar engineering*, students in the College of Engineering must complete BE 4342, 4347, BIOL 2083 or CHE 4260, EE 3950, ME 4433, and an approved design project. A grade of "C" or better in each course is required.

► Surveying

A *minor in surveying* is available for students wishing to become licensed as professional land surveyors. Enrollees in any University major may pursue this program. The *State of Louisiana Revised Statutes* 37:693.B(3b) and (4f) specify the educational requirements necessary for licensing. These requirements are a bachelor's degree and satisfactory completion of specified required and elective courses totaling 30 semester credit hours. A list of required and elective courses may be obtained from the dean's office.

► Technical Sales

Students in the College of Engineering wishing to earn a *minor in technical sales* must complete ACCT 2000, BLAW 3201 or CM 4201, ECON 2030, IE 3201 or PETE 3025, MGT 3200, MKT 3401, PHYS 1202, 2102, or 2002, and CMST 1061, 2010, 2060 or 2061.

Students in other colleges must have approval from the College of Engineering Dean's office to declare this minor.

Students who return to campus after having completed their undergraduate degrees and who complete the surveying or technical sales minors will be issued a certificate by the college.

► Transportation Engineering

To earn a *minor in Transportation Engineering*, a student must complete, with a grade of "C" or better in each course: CE 3600, 4600, 4620, 4650, 4670, and three additional courses chosen from an approved list of technical electives available in the Dean's Office. A grade of "C" or better in each course is required.

REQUIREMENTS FOR SECOND BACHELOR'S DEGREE

Students who hold one baccalaureate degree may wish to obtain a baccalaureate degree in engineering as a second degree. To do so, they must complete a minimum of 30 semester hours while enrolled in the department granting the second degree. In addition to the requirements of the first discipline, the student must satisfy all requirements for the second discipline, as shown in the curriculum.

They must attain a minimum 2.00 gpa average on all work scheduled while enrolled in the College of Engineering and on all work subsequent to receipt of the first degree. A student whose first degree was obtained elsewhere must also satisfy all the admission requirements of the college, as previously listed.

GRADUATE PROGRAMS

The college offers the Master of Science and the Doctor of Philosophy degrees through the Graduate School. The Master of Science program is mostly research oriented and emphasizes fundamental theory. It is offered in engineering science, agricultural, chemical, civil, electrical, industrial, mechanical, and petroleum engineering. The Doctor of Philosophy degree is awarded in the fields of chemical engineering, civil engineering, electrical engineering, mechanical engineering, petroleum engineering, and engineering science. For additional information, consult the *Graduate Bulletin*.

THE ENGINEERING COUNCIL

The Engineering Council is a college-wide student organization whose members are the elected representatives of the various professional and honorary student organizations. In addition to the general goal of bridging organizational gaps between the different departments, the Engineering Council sponsors several student activities including an engineering newsletter and the annual Engineers' Week.

SPECIAL PROGRAMS

Career Services offers a *cooperative education program* in all curricula offered by the college. In some cases, course scheduling should be carefully coordinated with the department to ensure course availability. Students alternate periods of classroom attendance and employment, resulting in one year of work experience upon graduation. The Co-op Office will assist the student in obtaining employment in the student's area of interest. Although it may delay graduation, the program is an excellent opportunity to explore career choices and integrate classroom theory with industry practices. While employed, the student must also register, for a nominal fee, to be considered formally affiliated with the University. For additional information concerning this cooperative program, please see "Career Services Center" in the section "Student • University Services."

PHI KAPPA PHI

Founded in 1897 at the University of Maine, Phi Kappa Phi is the nation's oldest, largest, and most selective honor society for all academic disciplines. Its chapters are on nearly 300 campuses in the United States, Puerto Rico, and the Philippines. Each year, approximately 30,000 members are initiated. Some of the organization's more notable members include former President Jimmy Carter, writer John Grisham, NASA astronaut Wendy Lawrence, and Netscape founder James Barksdale. The LSU chapter was founded in 1930 as the 43rd chapter in the nation. The mission of Phi Kappa Phi is to recognize and promote academic excellence in all fields of higher education and to engage the community of scholars in service to others. Phi Kappa Phi is unique because it recognizes superior scholarship in *all academic fields*, rather than restricting membership to a limited field.

Juniors in the top 7.5 percent and seniors and graduate students in the top 10 percent of their classes may be invited to become members of Phi Kappa Phi. New LSU Phi Kappa Phi members are initiated and honored in the spring semester each year and wear identifying ribbons on their academic gowns at commencement exercises. Additional information about the Society may be found at www.phikappaphi.org.

DEPARTMENTS AND CURRICULA

All curricula meet the University general education requirements with explicit course requirements and approved electives.

In each curriculum, the courses that are to be used to fulfill the general education requirement are marked with an asterisk.

All technical electives must have approval of the chair of the engineering department in which the student registers. Under no circumstances may electives be chosen from remedial courses or courses that are preliminary to the first courses in engineering. Examples of such courses are MATH 1021, 1022, PHYS 1100, etc. Students are advised to check with their departments on the selection of these electives.

DEPARTMENT OF BIOLOGICAL & AGRICULTURAL ENGINEERING

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Biological Engineering

Biological engineering integrates applied biology into the fundamental principles of engineering for the purpose of designing processes and systems that influence, control, or utilize biological materials and organisms for the benefit of society. The discipline applies the principles of analysis, synthesis, and design to physical problems and processing

systems associated with plants, animals, and humans, and their environments.

The overall educational goal of the Biological Engineering Program is to educate biological engineering students to be technically and professionally competent and to meet the requirements for professional registration.

The specific educational objective is to produce engineering graduates with the attributes to use basic principles to synthesize and analyze biological and physical systems, and more specifically demonstrate that they have:

- an ability to apply knowledge of mathematics, science, and engineering;
- an ability to design and conduct experiments, as well as to analyze and interpret data;
- an ability to design a system, component, or process to meet desired needs;
- an ability to function on multi-disciplinary teams;
- an ability to identify, formulate, and solve engineering problems;
- an understanding of professional and ethical responsibility;
- an ability to communicate effectively;
- the broad education necessary to understand the impact of engineering solutions in a global and societal context;
- a recognition of the need for, and an ability to engage in life-long learning;
- a knowledge of contemporary issues;
- an ability to use techniques, skills, and modern engineering tools necessary for the engineering practice.

The Biological Engineering (BE) curriculum includes the study of basic sciences (mathematics, physics, chemistry, and biology), humanities (arts, economics, and social sciences), applied biology (organic chemistry, microbiology, and physiology), engineering sciences (statics, dynamics, strength of materials, fluid mechanics, electrical principles, and thermodynamics), and engineering design. Students can select technical and engineering electives that enable them to pursue specific career interests. Elective courses can also be used to complete the requirements for minor programs in electrical engineering, environmental engineering, mechanical engineering, occupational health and safety, surveying, or technical sales.

An undergraduate education in biological engineering is excellent preparation for graduate and professional studies in various fields of engineering (including biomedical engineering) and human or veterinary medicine. The curriculum teaches students the practical skills needed for professional engineering and the scientific understanding required to adapt to new situations.

Career opportunities in biological engineering include design, development, and implementation of technologies to recycle municipal waste and agricultural byproducts into viable sources of energy; systems to clean contaminated water and soil; equipment and procedures to prevent repetitive motion injuries; processing operations to ensure high quality foods; and machinery or sensors to be applied within human, animal, plant, and ecological systems. Graduates have the opportunity for local, national, or international work. Recent graduates are employed in

large engineering firms, small consulting companies, and governmental agencies, or are pursuing graduate degrees.

A low student-to-faculty ratio in the department allows students to receive personal attention. Students also complete a senior design project that requires one-on-one direction from a faculty member. Numerous social activities with faculty, staff, and graduate students foster professional camaraderie that extends far beyond the classroom. Students may also gain professional insight and potential employment contacts through participation in a variety of national engineering and technical organizations.

The curriculum in biological engineering provides students with the skills needed to solve today's problems, and the knowledge required to master the rapid changes in technology and address the problems of tomorrow. This curriculum, offered through the College of Engineering, is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; telephone 410-347-7700. Graduates are prepared to take the *Fundamentals of Engineering* (FE) exam during their senior year, which is a first step for obtaining a Professional Engineering license.

CURRICULUM IN BIOLOGICAL ENGINEERING

TOTAL SEM. HRS. • 132

Biological Engineering design electives: select three from the list maintained by the department.

General education required courses are marked with asterisks ().*

FRESHMAN YEAR	SEM. HRS.
Biological Sciences 1201, 1208	4
Biological Sciences 1202, 1209	4
Biological Engineering 1250, 1252	4
Chemistry 1201,* 1202,*	6
English 1001,*	3
Mathematics 1550,* 1552*	9
Physics 2101*	3
	—
	33

SOPHOMORE YEAR	SEM. HRS.
Biological Engineering 2350, 2352	6
Biological Sciences 2051	4
Civil Engineering 2450, 3400	6
Chemistry 1212	2
Chemistry 2261	3
English 2000*	3
Electrical Engineering 2950	3
Mathematics 2065	3
Physics 2102	3
	—
	33

JUNIOR YEAR	SEM. HRS.
Biological Engineering 3340, 4303	6
Biological Engineering 4352	3
Biological Engineering 3290	2
Biological Sciences 2083	3
Civil Engineering 2200	3
Civil Engineering 2460 or Mechanical Engineering 3133	3
Engineering design electives	6

Agricultural Economics 2003 or Economics 2030*	3
Mechanical Engineering 3333	3
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	32
SENIOR YEAR	SEM. HRS.
Biological Engineering 3320, 4290, 4292	7
Engineering design electives	6
Elective or ROTC	3
General education arts/humanities/social sciences courses*	15
Technical elective or ROTC	3
	—
	34

GORDON A. AND MARY CAIN DEPARTMENT OF CHEMICAL ENGINEERING

OFFICE • 110 Chemical Engineering Building
 TELEPHONE • 225-578-1426
 FAX • 225-578-1476
 E-MAIL • cheweb@lsu.edu
 WEB SITE • www.che.lsu.edu

Chemical engineers apply scientific principles to the solution of problems involving chemical and physical change. They design, install, and operate complete processes for the efficient production of materials and tailor the properties of materials for specific applications. Chemical engineers today play a direct professional role in such diverse areas as chemical processing; petroleum refining; pollution control and abatement; materials processing; biochemical engineering; instrumentation; computer automation, control, and modeling; biomedical engineering; oceanography; energy; food processing; systems engineering; and manufacturing.

Louisiana and the Gulf Coast region lead the nation in growth of the chemical, petroleum, and materials industries. In these industries, about 40 percent of the professional staffs are chemical engineers. Besides providing technical leadership for these industries, chemical engineers are a major source of management personnel. Chemical engineering also offers many opportunities for independent enterprise.

Chemical engineers must combine many different abilities in their work. These include an aptitude for chemistry, computer science, physics, mathematics, and economics; the capability of presenting decisions to management in a lucid and concise manner; and the ability to bring scientifically oriented talents to bear on practical problems.

The undergraduate curriculum is concerned primarily with fundamentals, and basic courses in mathematics, chemistry, and chemical engineering are required. Through a series of elective courses, students may select a formal concentration in one of three areas: biomolecular, environmental, or materials studies. Alternatively, students can use these electives to plan a program that emphasizes a subfield of their choice. The curriculum requires liberal amounts of arts, humanities, and social sciences electives to satisfy the University's general education and external accreditation requirements. These serve to prepare students for the responsibilities of

citizenship, aside from a technical career. The undergraduate curriculum is oriented toward the use of computers, which have become an integral part of the engineering profession.

Chemical engineers are among the highest-salaried graduates in engineering across the nation. In the foreseeable future, it is predicted that the supply of chemical engineers available to industry will not match the demand; consequently, the salary and job opportunities should continue to be favorable.

The chemical engineering curriculum has been continuously accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; telephone 410-347-7700, since 1939.

3/2 Program in Chemistry and Chemical Engineering

The Department of Chemistry at Southern University and the Gordon A. and Mary Cain Department of Chemical Engineering at LSU offer a dual degree in chemistry and chemical engineering. The student, after successful completion of the required courses in both curricula, will be awarded a Bachelor of Science degree in Chemistry from Southern University and a Bachelor of Science in Chemical Engineering degree from LSU. The first three years of course work are taken principally at Southern University and the last two years principally at LSU.

CURRICULUM IN CHEMICAL ENGINEERING

TOTAL SEM. HRS. • 132-134

Chemistry, Physics, Life Sciences and Mathematics Proficiency • A grade of "C" or better in each of the basic sciences preparatory courses—BIOL 1201; CHEM 1201 and 1202; PHYS 2101 and 2102; MATH 1550, 1552, and 2090—is required before students may register for any chemical engineering course other than CHE 2160 and 2171.

Residence Requirement • Students must complete at least 18 residence hours of required chemical engineering courses, including CHE 4172, and exclusive of approved chemical engineering electives.

Academic Warning • Any chemical engineering student whose cumulative grade point average on all chemical engineering courses is less than a 2.00 shall be placed on academic warning status. Such students will receive a letter from the department chair informing them of their gpa, and reminding them that a 2.00 or better gpa in all chemical engineering courses is required for the BSChE degree.

Academic Probation • Any chemical engineering student whose cumulative gpa on all chemical engineering courses attempted is seven or more quality points below a 2.00 shall be placed on departmental scholastic probation. Students will remain on departmental scholastic probation until they have achieved a gpa of 2.00 or better on all chemical engineering courses attempted. Such students will receive a letter from the department chair informing them of their probationary status, reminding them that a

2.00 gpa in all chemical engineering courses is required for the BSChE degree, and cautioning them that a further loss of quality points may result in their being dropped from the department.

Academic Drop • Any chemical engineering student whose cumulative gpa on all chemical engineering courses attempted is 10 or more quality points below a 2.00 shall be dropped from the department. Students dropped for the first time shall be ineligible to enroll in chemical engineering courses for one full semester (fall or spring) following their drop. Students dropped for a second time shall be ineligible to enroll in chemical engineering courses for one calendar year. In either instance, readmission to the department may be delayed or denied at the discretion of the department chair.

General education required courses (*).

FRESHMAN YEAR	SEM. HRS.
Biology 1201*	3
Chemistry 1201,* 1202,* 1212	8
English 1001*	3
Mathematics 1550,* 1552*	9
Physics 1201 or 2101*	3-4
General education arts/humanities/ social sciences courses*	6
	—
	32-33
SOPHOMORE YEAR	SEM. HRS.
Chemical Engineering 2160, 2171, 2176	7
Chemistry 2261, 2262, 2364	8
Civil Engineering 2450	3
Economics 2030*	3
English 2000	3
Mathematics 2090	4
Physics 1202 or 2102	3-4
General education arts/humanities/ social sciences courses*	3
	—
	34-35
JUNIOR YEAR	SEM. HRS.
Chemical Engineering 3101, 3102, 3104, 3171, 3172, 3173	19
Chemistry 3491	3
Mechanical Engineering 2733	3
Approved electives or area of concentration courses	3
General education arts/humanities/ social sciences course*	6
	—
	34
SENIOR YEAR	SEM. HRS.
Chemical Engineering 4151, 4162, 4172, 4190, 4198	17
Approved electives or area of concentration courses	12
Elective	3
	—
	32

Areas of Concentration

Lists of approved area electives approved for the chemical engineering concentrations are available from the department. Depending on the particular area electives selected, students may be required to take one or more additional prerequisite course(s).

◆ Biomolecular

Required Courses (15 hrs.)
Junior Year: Area electives (3 hrs.)
Senior Year: Area electives (12 hrs.)

◆ Environmental

Required Courses (15 hrs.)
Junior Year: Area electives (3 hrs.)
Senior Year: Area electives (12 hrs.)

◆ Materials

Required Courses (15 hrs.)
Junior Year: Area electives (3 hrs.)
Senior Year: Area electives (12 hrs.)

DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING

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The Department of Civil & Environmental Engineering offers two curricula that are designed to provide a broad, but integrated education in the scientific, mathematical, engineering, sociohumanistic, and ethical principles that are the basis for a professional career. The curricula also provide sound preparation for continued professional development through informal studies, continuing education programs, or graduate study in a specialized engineering or related field. The philosophy of the faculty is to offer students a quality education, preparing them to enter any field of civil or environmental engineering. The department assists students in achieving the technological, communication, and interpersonal competencies, as well as a sensitivity to and understanding of socioeconomic issues, necessary for the professional practice of engineering.

For those students wishing to concentrate in environmental engineering, two opportunities are available. Students pursuing the civil engineering degree may select 20 hours of electives during the senior year with emphasis on technical, socio-economical, and regulatory issues in environment engineering. Alternatively, students may pursue the more specialized environmental engineering curriculum leading to the BS in Environmental Engineering.

In collaboration with external Civil and Environmental Engineering Program Advisory Committees, the faculty established the following program educational objectives for the undergraduate degree programs:

- consistent with the mission of the University, provide quality undergraduate programs in civil and environmental engineering which focus on the efficient, economic, environmentally sensitive, and socially responsible design, maintenance, and improvement of the state and national infrastructure;
- attract, retain, develop, and support excellent faculty, students, and staff that have the capability and motivation to

- achieve the program educational and outcomes objectives of the programs;
- provide modern instructional facilities to support the development of experimental, computational, and design skills; ensure the continual improvement of the programs through an active assessment and evaluation process that encompasses the constituencies of the program;
- provide adequate resources and administrative support to ensure that the program educational and outcomes objectives of the programs can be met; and
- support student chapter programs, as well as promote student participation in professional organizations and service activities.

The department is committed to the continual improvement of its BS degree programs in civil engineering and environmental engineering. Specific outcome objectives have been established for the degree programs and will utilize the following measures for assessing the achievement of these objectives:

- technical and professional capabilities of students in open-ended project design courses
- student, alumni, and employer surveys
- faculty assessment of ethical behavior of students
- student participation in professional organizations
- student performance on the *Fundamentals of Engineering* (FE) examination
- subsequent professional registration of graduates
- success of graduates in post-graduate degree programs

The data from these assessment measures will be evaluated and used as the basis for improvement of all elements of the degree programs.

Bachelor of Science Degree in Civil Engineering

Civil engineering is a profession that advances the well-being of people, while improving and protecting the environment. A civil engineer gains knowledge of mathematics and physical sciences through study, experience, and practice. This knowledge is applied with judgment under economic constraints to provide facilities for living, industry, transportation, and a myriad of other activities. Civil engineering graduates can practice in the fields of structural, transportation, hydraulic, water resources, geotechnical, construction, environmental, and public works engineering. They are employed by private industry as well as governmental agencies and many ultimately establish their own consulting engineering businesses.

The philosophy of the department is to provide the students a broad background in key areas of civil engineering, and the opportunity for specialization through electives. Specifically, students take several courses each in the fields of structural, geotechnical, transportation, surveying, water resources, and environmental engineering. Eighteen hours of electives in the senior year provide the means for a student to specialize in one or two of these areas, if desired.

The graduates of the civil engineering program shall:

- be prepared to take a leading role in the provision, upkeep, and improvement of the state and national infrastructure in an efficient, economic, environmentally sensitive, and socially responsible manner;
- have an understanding of professional practice issues, understand their roles in a local and global societal context, and have the interpersonal and communication skills needed to be effective engineers;
- be prepared and motivated to become licensed professional engineers and to continue their education through professional development and post graduate programs;
- be proficient in analysis and structural, transportation, geotechnical, and water resources engineering; and
- be proficient in laboratory and field measurements and the ability to design, conduct, and critically evaluate the results of experiments in the areas of hydraulics, construction materials, and geotechnical engineering.

The successful civil engineer is a registered professional engineer who affiliates with various professional and technical societies. The department recommends that its students join and participate in the Student Chapter of the American Society of Civil Engineers and encourages each senior to take the *Fundamentals of Engineering* (FE) examination that is a partial requirement for registration as a professional engineer.

The civil engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; telephone 410-347-7700.

Bachelor of Science Degree in Environmental Engineering

Environmental engineering is a separate and distinct baccalaureate degree program within the Department of Civil & Environmental Engineering. As a discipline, environmental engineering is defined as "...the application of engineering principles to improve and maintain the environment for the protection of human health, for the protection of nature's beneficial ecosystems, and for environment-related enhancement of the quality of life." The degree program is broad based and encompasses resource management; conception, planning, design, construction and operation of engineered systems for the protection of human health; the protection and management of the environment; air, water (surface subsurface, and groundwater), and land interactions and transformations; the behavior of natural systems, including their response to the activities of man; professional responsibility; and multi-disciplinary efforts across private and public sectors to assure environmental protection. For achieving additional depth in specific areas of environmental engineering, elective courses are available in a range of topics including in-situ waste site remediation, computer modeling, use of natural systems for wastewater treatment, and special topics and design/research project courses.

The basic mission of the program is to provide the fundamental intellectual knowledge, when supplemented by professional experience that will provide the technical and interpersonal skills required to conceive, plan, design, and implement the systems needed to provide and ensure environmental protection for human health and the sustainability of our natural ecosystem.

The graduates of the environmental engineering program shall:

- possess the technical and professional skills needed to ensure that they are adequately prepared to enter and progress professionally in the practice of environmental engineering or progress academically in advanced areas of study;
- be proficient in the fundamentals of mathematics and statistics, computational methods, natural and physical sciences, and chemical, civil, and environmental engineering sciences necessary to communicate and collaborate effectively with a broad spectrum of environmental professionals;
- have an introductory level of knowledge of environmental issues associated with air, land, and water systems and associated environmental health impacts;
- be proficient to conduct laboratory experiments and analyze and interpret data in the areas of soil properties and behavior, water quality and unit operations—physical, chemical, and biological;
- have the ability to perform engineering analysis and design of water, air, and land treatment/protection systems that minimize risk to the environment and public health;
- have an understanding of concepts of professional practice and the roles and responsibilities of public institutions and private organizations pertaining to environmental engineering and the interpersonal and communication skills needed to be effective engineers and citizens; and
- become licensed professional engineers and continue their education through professional development and post graduate programs.

Students are encouraged to participate in the activities of the student chapters of the Louisiana Water Environment Association and the American Society of Civil Engineers. Other professional organizations that may be of interest to students include the National Society of Black Engineers, the Society of Women Engineers, and the Environmental Conservation Organization (ECO).

The department encourages each senior to take the *Fundamentals of Engineering* (FE) examination that is a partial requirement for registration as a professional engineer.

The environmental engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; telephone 410-347-7700.

CURRICULUM IN CIVIL ENGINEERING

TOTAL SEM. HRS. • 132

Civil Engineering majors must earn a grade of "C" or better in CHEM 1202, PHYS 2101, PHYS 2102, MATH 1550, MATH 1552, MATH 2057, CE 2200, CE 2450, CE 2460, and CE 3400 before registering for any subsequent courses that require the above as prerequisites.

General education required courses().*

FRESHMAN YEAR	SEM. HRS.
Chemistry 1201,* 1202*	6
Civil Engineering 2700	2
Construction Management 1030.....	2
English 1001*	3
Geology 1001.....	3
Mathematics 1550,* 1552*	9
Physics 2101*	3
Basic sciences lab elective.....	1
General education arts, humanities, social sciences course*.....	3
General education life science course*.....	3
	35

SOPHOMORE YEAR	SEM. HRS.
Civil Engineering 2200, 2450, 2460, 2720, 3400, 3500, 3700.....	19
Experimental Statistics 2201	4
Mathematics 2057, 2065	6
Physics 2102	3
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	32

JUNIOR YEAR	SEM. HRS.
Civil Engineering 2250, 3300, 3350, 3410, 3415, 3600, 4410.....	15
Environmental Engineering 3110, 3200	6
English 2000*	3
Economics 2030*.....	3
Mechanical Engineering 3333 or Electrical Engineering 2950	3
General education arts, humanities, social sciences course*.....	3
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	33

SENIOR YEAR	SEM. HRS.
Civil Engineering 4200, 4750.....	5
Civil engineering analysis elective	3
Civil engineering design electives.....	6
Civil engineering project elective	3
Civil engineering technical elective or ROTC	3
Civil engineering technical elective.....	3
General education arts, humanities, social sciences courses*	9
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	32

CURRICULUM IN ENVIRONMENTAL ENGINEERING

TOTAL SEM. HRS. • 128

General education required courses ().*

FRESHMAN YEAR	SEM. HRS.
Biological Sciences 1201*, 1208	4
Chemistry 1201,* 1202,* 1212	8
English 1001*	3
Mathematics 1550,* 1552	9
Physics 2101*	3
Geology 1001	3
	—
	30

SOPHOMORE YEAR	SEM. HRS.
Civil Engineering 2200, 2450, 2720	9
Environmental Engineering 2000, 3400	6
Chemistry 2060/2261	3
English 2000	3
Mathematics 2065	3
Physics 2102	3
General education arts, humanities, social sciences course*	3
Experimental Statistics 2201	4
	—
	34

JUNIOR YEAR	SEM. HRS.
Civil Engineering 2250, 3300, 3350	5
Environmental Engineering 3110, 3120, 3200, 4125, 4136, 4145	16
Environmental Engineering track course A	3
Economics 2030*	3
General education arts, humanities, social sciences course*	6
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	33

SENIOR YEAR	SEM. HRS.
Environmental Engineering 4110, 4120	4
Environmental Engineering 4150, 4151	6
Civil Engineering 4200, 4250	6
Environmental Engineering track course B, C	6
Chemical Engineering 4253	3
General education arts, humanities, social sciences courses*	6
	—
	31

DEPARTMENT OF CONSTRUCTION MANAGEMENT & INDUSTRIAL ENGINEERING

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 FAX • 225-578-5109
 WEB SITE: www.cmie.lsu.edu

The Department of Construction Management and Industrial Engineering offers two degree programs: the degree of Bachelor of Science in Construction Management and the degree of Bachelor of Science in Industrial Engineering. The Construction Management degree is accredited by the American Council for Construction Education. The Industrial Engineering degree is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; telephone 410-347-7700.

Bachelor of Science Degree in Construction Management

Construction management is the process of coordinating and managing residential, commercial, industrial and highway construction projects from the site survey until completion. The Construction Management program at LSU covers all aspects of this process. Modern construction has been rapidly evolving, incorporating sophisticated new construction technologies and new information-driven management practices to drive productivity improvements. These changes have in turn driven a high demand for graduates knowledgeable in these technologies and practices.

The department recognizes that its construction management graduates are professional constructors, distinct from engineers and architects. The curriculum is designed to blend the technical aspects with the business management aspects of the construction industry to produce a professional graduate who can manage construction processes effectively and efficiently.

CURRICULUM IN CONSTRUCTION MANAGEMENT

TOTAL SEM. HRS. • 123

Admission into the College of Engineering is required for construction management majors prior to taking any construction management course numbered above CM 2121.

A grade of "C" or better is required in all CM prerequisite courses; ENGL 1001 and 2000; MATH 1550; PHYS 2001 and 2002.

General education required courses are marked with asterisks ().*

FRESHMAN YEAR	SEM. HRS.
Construction Management 1010, 2012	6
English 1001*	3
General education arts course*	3
General education life sciences course*	3
General education humanities course*	6
Approved elective	3
ISDS 1100	3
Mathematics 1550*	5
	—
	32

SOPHOMORE YEAR	SEM. HRS.
Accounting 2000, 2101	6
Construction Management 2121, 2131, 2141	9
Economics 2030*	3
English 2000*	3
Physics 2001,* 2002*	6
General education communication studies course*	3
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	30

JUNIOR YEAR	SEM. HRS.
Construction Management 3000, 3100, 3121, 3131, 3141, 3303, 3400, 3505	24
Experimental statistics 2201* or Mathematics 1552*	4
General education social sciences course*	3
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	31

SENIOR YEAR	SEM. HRS.
Construction Management 3506, 4200, 4201, 4202	12
Approved business/management electives	9
Approved electives	6
Industrial Engineering 3201	3
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	30

Bachelor of Science Degree in Industrial Engineering

Industrial Engineering involves the synthesis and applications of scientific principles to design, installation, and improvement of integrated systems of people, materials, information, and equipment to provide the most efficient and effective operating and work environment. It combines principles of human behavior with concepts of engineering procedure or analysis.

Industrial engineers engage in ergonomics and human factors engineering, safety engineering, work systems measurement, methods development and improvement, CAD/CAM, industrial automation and robotics, systems integration, manufacturing processes design, facilities and plant layout/design, production planning and control, material handling and supply chain systems, operation research and logistics, computer modeling and simulation, quality assurance, statistical analysis and control, and reliability engineering.

The industrial engineer combines the abilities of an engineer and a manager. These include an aptitude for mathematics, statistics, and economics, as well as for the basic engineering sciences; an interest in working with people and systems that produce goods or services; and the ability to analyze, synthesize, and integrate technical knowledge in practical ways.

The program objectives are, within the first few years after graduation, for graduates from the BSIE program at LSU to demonstrate:

- An ability to think independently, critically and creatively, and take the lead in, identifying; defining; collecting, analyzing and interpreting data; developing effective solutions that balance intellectual, ethical, and aesthetic considerations; and successfully implementing solutions within desired time frames to unstructured problems in designing and improving operation and management systems in their organizations, so as to safely and effectively produce and deliver the organization's products and services in these tasks in industries of economic importance to Louisiana and the Gulf Coast region, including construction, process industries; oil and gas exploration; information technology; traditional manufacturing; and healthcare.
- An ability to function effectively, at all levels of an organization, in settings that are diverse, global, and multidisciplinary; to advance to leadership roles within their organizations; and to be entrepreneurial either within their companies or in creating and leading new companies.
- An ability to adapt to changes in technology and our global society in their desired career path, by engaging in life-long learning such as conferences,

professional development courses, certifications and licensing, and advanced graduate studies.

- An ability to effectively communicate, in writing, presentations, and meetings using appropriate technology and formats, to diverse audiences with different organizational roles, backgrounds, cultures, education, and interests.
- An ability to work collaboratively in and lead diverse teams.
- An ability to be responsible, informed, ethical, and active citizens in their organizations, professions, and community through participation in and leadership of professional and community organizations and activities.

CURRICULUM IN INDUSTRIAL ENGINEERING

TOTAL SEM. HRS. • 125

Industrial Engineering Electives • Choose from the list maintained in the department.

Students may optionally take three hrs. of advanced ROTC course work in place of one IE technical elective.

General education required courses ().*

FRESHMAN YEAR	SEM. HRS.
Chemistry 1201,* 1202*	6
Construction Management 1030.....	2
Industrial Engineering 1002, 2060	6
English 1001	3
Mathematics 1550,* 1552*	9
Physics 2101,* 2108	4
Communication studies 1061 or ROTC	3
	33

SOPHOMORE YEAR	SEM. HRS.
Biology 1001 or 1201*.....	3
Construction Management 2141.....	3
Civil Engineering 2450	3
Economics 2030*	3
Electrical Engineering 2950	3
Industrial Engineering 3302	3
Mathematics 2090	4
Mechanical Engineering 2733.....	3
Physics 2102, 2109	4
General education arts, humanities, social sciences course*	3
	32

JUNIOR YEAR	SEM. HRS.
Civil Engineering 3400	3
Industrial Engineering 3201, 3520, 4362, 4425, 4453, 4520	18
Mechanical Engineering 3633.....	3
English 2000	3
General education arts, humanities, social sciences courses*	3
	30

SENIOR YEAR	SEM. HRS.
Industrial Engineering 4461, 4516, 4530, 4599	12
Approved industrial engineering electives	9
General education arts, humanities, social sciences course*	9
	30

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING

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Electrical and computer engineering are primarily concerned with the generation, control, and distribution of electric energy and information. The department offers undergraduate and graduate programs and conducts research to serve the needs of the state and the nation.

Program Educational Objectives

- Educate students so that, upon graduation, they will be able to pursue a productive career.
- Provide the necessary background for students who wish to do advanced study at LSU or elsewhere.

Program Outcomes

In order to meet the program objectives, a graduate of the program will have accomplishments consistent with the general criteria specified by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; telephone 410-347-7700.

Electrical and computer engineering students receive a thorough foundation in mathematics, physics, and introductory engineering during the first two years. Emphasis during the junior and senior years is on advanced engineering concepts and design. Engineering design is introduced in the first part of the junior year so that by the time students reach senior status they are prepared to take required courses dealing primarily with design. The senior courses utilize the previously gained knowledge in solving real-life problems. This prepares students for excellent career opportunities in areas such as computer engineering, energy conversion, power systems, communications, network design, control systems, electronics, and signal processing, as well as many interdisciplinary areas. With the background in fundamental theory and laboratory practice provided in the curricula, graduates are prepared to contribute and progress in their chosen technological fields.

The department offers two programs of study—electrical engineering and computer engineering, both leading to the degree of Bachelor of Science in Electrical Engineering. The electrical engineering curriculum provides a broad background in electrical engineering through the required course sequence. Elective courses permit students to develop a program in one of the three areas of technical concentration, as outlined below. The approved technical electives permit students to obtain more depth in the chosen area, explore other areas of electrical engineering, or explore other fields of engineering and science. The electrical engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; telephone 410-347-7700.

The computer engineering curriculum is available for students desiring more comprehensive knowledge of the principles that underlie the organization, design, and application of computer systems. The computer engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; telephone 410-347-7700.

A student must take *all* of the required courses in either the electrical engineering or the computer engineering curriculum, as stated below, in order to obtain a degree.

Students interested in continuing their education through master's and doctoral programs are advised to seek academic counseling early and to make judicious use of their undergraduate electives.

CURRICULUM IN ELECTRICAL ENGINEERING

TOTAL SEM. HRS. • 127

A prerequisite to any electrical engineering course may be met only by obtaining a "C" or better in each course cited as a prerequisite. This rule does not apply to EE 2950 or EE 3950.

Elective courses are available so that expertise may be obtained in one or more of the following three areas:

Electronics • theory, design, and fabrication of solid-state devices and design of electronic circuits and systems.

Energy • energy conversion, power system design and analysis, and control of power systems.

Systems and Signal Processing • automatic control, networks, signal processing, and communication. Additional information concerning these areas and guidelines for selecting electives are available in the departmental office.

General education required courses ().*

FRESHMAN YEAR	SEM. HRS.
Chemistry 1201*	3
General education life sciences course*	3
English 1001*	3
Mathematics 1550,* 1552*	9
Physics 2101,* 2108.....	4
General education arts/humanities/social sciences courses*	6
Philosophy 2018 or ROTC.....	3
	31

SOPHOMORE YEAR	SEM. HRS.
Computer Science 1253, 1254.....	6
Electrical Engineering 2120, 2130, 2230, 2231, 2720, 2730.....	15
Mathematics 2057, 2090	7
Physics 2102*	3
English 2000	3
	34

JUNIOR YEAR	SEM. HRS.
Electrical Engineering 2731, 3140, 3220, 3221, 3320, 3410, 3530, 3610, 3750, 3751	26
General education arts/humanities/social sciences courses*	3

Social Science Elective at the 2000 level or above*	3
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	32
SENIOR YEAR	SEM. HRS.
Electrical engineering design electives	9
Electrical Engineering 4810, 4820	6
General education arts/humanities/social sciences courses*	6
Approved technical electives	9
	—
	30

CURRICULUM IN COMPUTER ENGINEERING

TOTAL SEM. HRS. • 128

A prerequisite to any electrical engineering course may be met only by obtaining a "C" or better in each course cited as a prerequisite. This rule does not apply to EE 2950 or EE 3950.

General education required courses ().*

FRESHMAN YEAR	SEM. HRS.
Chemistry 1201*	3
English 1001*	3
General education life science course*	3
Mathematics 1550,* 1552*	9
Physics 2101,* 2108	4
General education arts/humanities/social sciences courses*	6
Philosophy 2018 or ROTC	3
	—
	31

SOPHOMORE YEAR	SEM. HRS.
Computer Science 1253, 1254	6
Electrical Engineering 2120, 2130, 2230, 2231, 2720, 2730	15
Mathematics 2057, 2090	7
Physics 2102*	3
English 2000	3
	—
	34

JUNIOR YEAR	SEM. HRS.
Computer Science 3102	3
Electrical Engineering 2731, 3140, 3220, 3221, 3750, 3751, 3755	17
General education arts/humanities/social sciences courses*	6
Social Science elective at the 2000 level or above*	3
Approved mathematics elective	3
	—
	32

SENIOR YEAR	SEM. HRS.
Computer Science 4103	3
Electrical Engineering 4720, 4750, 4810, 4820	13
Electrical engineering design electives	6
Approved technical electives	6
General education arts/humanities/social sciences courses*	3
	—
	31

DEPARTMENT OF MECHANICAL ENGINEERING

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Mechanical engineering emerged as a new field of engineering during the Industrial Revolution when many labor-saving inventions were designed and built in England between 1750 and 1850. The role of the mechanical engineer has expanded dramatically in recent years and nearly 10,000 graduates are now needed yearly.

All large industries employ mechanical engineers. Among those who regularly hire graduates from LSU are automotive, industrial machinery, oceanographic, power, chemical, textile, petroleum, computer, metal manufacturing, electronic, paper and wood product, and aerospace corporations.

In these industries, mechanical engineers perform a large variety of functions; therefore, the education of a mechanical engineer is necessarily broad. Mechanical engineers use the basic sciences (such as chemistry and physics), mathematics, computer programming, oral and written communication skills, and humanities and social sciences. Almost invariably, mechanical engineers rely heavily on a firm understanding of mechanics and thermal sciences to analyze the conversion and transmission of energy in its many forms.

Mechanical engineers use this knowledge in research by attempting to solve new problems, in development by altering a system to fit a new need, and in design to describe in detail a machine, system, or approach to a problem. Testing, manufacturing, operation and maintenance, marketing and sales, and administration also require large numbers of mechanical engineers. Mechanical engineering, a technical professional field, offers challenge and opportunity for those prepared for hard work, both in school and during a lifetime of service.

The Department of Mechanical Engineering is committed to continuing its three-fold mission of:

- Producing graduate and post-graduate engineers who meet the needs of industry, government and academia.
- Advancing the state of knowledge and technology through innovative fundamental and applied research.
- Serving the community and the profession through programs of education, technology transfer, and consulting.

The mechanical engineering curriculum is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; telephone 410-347-7700. To qualify for graduation, mechanical engineering students must demonstrate the ability to:

- Apply accepted engineering methodologies and tools to design and realize reliable and economical engineering systems and components.
- Quantify and alter the performance of proposed or existing systems.

- Design and conduct pertinent experiments in order to investigate physical systems and validate engineering models using appropriate analyses and interpretation of relevant data.
- Use basic scientific principles, mathematics, modern programming, and computational methods in modeling, simulating, and analyzing engineering systems.
- Demonstrate an understanding of engineering materials and their application, as well as a working knowledge of the dynamics and control of mechanical, thermal, and fluid systems.
- Present ideas and information effectively in both written reports and oral presentations.
- Work effectively in groups and as individuals with an awareness of multidisciplinary influences and challenges.
- Acquire a degree of professionalism commensurate with a contemporary, entry-level engineer, with a commitment to ethical practice, social responsibility, and continuing professional development.
- Become well-rounded engineers through study of and exposure to topics in the arts, humanities, and social sciences.

CURRICULUM IN MECHANICAL ENGINEERING

TOTAL SEM. HRS. • 130-131

A grade of "C" or better is required in Chemistry 1202, Mathematics 1552, and Physics 2101 (or equivalent courses) before a student may enroll in Mechanical Engineering 2334.

A grade of "C" or better is required in MATH 2090 (or equivalent course) before a student may enroll in Mechanical Engineering 3834.

Students are required to take one technical elective (Type B). Students who are planning to receive a commission in the armed forces may substitute three hours of Advanced ROTC credits in place of this technical elective (Type B).

General education required courses ().*

FRESHMAN YEAR	SEM. HRS.
Chemistry 1201, 1202*	6
Chemistry 1212 or Physics 2108	1-2
Construction Management 1020	2
English 1001	3
General education Life Sciences elective	3
Mathematics 1550, 1552*	9
ME/CSC 2533	3
Physics 2101	3
General education arts, humanities, social sciences course*	3
ROTC	0-3
	—
	33-37

SOPHOMORE YEAR	SEM. HRS.
Civil Engineering 2450, 3400	6
Electrical Engineering 2950	3
English 2000*	3
Mathematics 2057, 2090	7

Mechanical Engineering 2212, 2334, 2723, 3133, 3701	13
Physics 2102	3
	—
	35

JUNIOR YEAR	SEM. HRS.
Economics 2030*	3
Electrical Engineering 3950	2
Mechanical Engineering 3143, 3603, 3633, 3752, 3834, 4133, 4244, 4433, 4611	26
General education arts, humanities, social sciences course*	3
	—
	34

SENIOR YEAR	SEM. HRS.
Mechanical Engineering 4183, 4201, 4202, 4243, 4621	10
General education arts, humanities, social sciences courses*	9
Approved technical electives (may include up to three hours of Advanced ROTC as above)	9-6
	—
	28-25

CRAFT & HAWKINS DEPARTMENT OF PETROLEUM ENGINEERING

OFFICE • 3516 Patrick F. Taylor Hall
TELEPHONE • 225-578-6055
FAX • 225-578-6039
WEB SITE • www.pete.lsu.edu

Although the petroleum engineering curriculum is designed primarily for careers in the petroleum industry, it is suitable for careers in related areas such as ground water hydrology, geothermal energy, solution mining, and under-ground storage or disposal of fluids. Professional courses in drilling and production, well design, reservoir engineering, petrophysics, well logging, and the phase behavior of hydrocarbons systems follow basic course work in mathematics, chemistry, physics, geology, and the engineering sciences. Additionally, the faculty gives specific attention to the economic evaluation of drilling and production operations.

The department is active in obtaining summer employment in the petroleum industry for its students. The department also strongly recommends that its students join and participate, as student members, in the Society of Petroleum Engineers and take the *Fundamentals of Engineering (FE)* examination during their senior year as preparation for licensure as a professional engineer.

The nationally ranked Craft & Hawkins Department of Petroleum Engineering at LSU has alumni throughout the world working for major companies, small independent companies, government agencies, and as independent consultants.

The petroleum engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; telephone: 410-347-7700.

CURRICULUM IN PETROLEUM ENGINEERING

TOTAL SEM. HRS. • 130

Mathematics 1550, 1552, and Physics 2101, 2102 each require a grade of "C" or better before a student may register for any 3000-level petroleum engineering course. A student may elect to take six sem. hrs. of ROTC in place of Petroleum Engineering 1010, 2060, and CM 1030. The six sem. hrs. of ROTC must be successfully completed before any substitution will be made. General education required courses ().*

FRESHMAN YEAR	SEM. HRS.
Chemistry 1201,* 1202,* 1212	8
English 1001*	3
Geology 1001, 1003, 1601	7
Mathematics 1550,* 1552*	9
Petroleum Engineering 1010 or ROTC	2
Construction Management 1030 or ROTC ...	2
Physics 2101*	3
	—
	34

SOPHOMORE YEAR	SEM. HRS.
Civil Engineering 2450	3
Civil Engineering 2460 or Mechanical Engineering 3133	3
Electrical Engineering 2950	3
Mathematics 2065	3
Industrial Engineering 3302	3
Petroleum Engineering 2031, 2032, 2034, 2060	9
Physics 2102	3
Economics 2030*	3
General education arts/humanities/social sciences courses*	3
	—
	33

JUNIOR YEAR	SEM. HRS.
Civil Engineering 2200, 3400	6
English 2000*	3
Mechanical Engineering 3333	3
Life science elective*	3
Petroleum Engineering 3025, 3036, 3037, 3053, 4050, 4060	14
Approved geology elective	3
	—
	32

SENIOR YEAR	SEM. HRS.
Petroleum Engineering 4045, 4046, 4051, 4056, 4058, 4059, 4998, 4999	16
General education arts/humanities/social sciences courses*	12
Petroleum engineering design elective	3
	—
	31

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Honors College

NANCY L. CLARK
Dean

F. GRANGER BABCOCK
Associate Dean

ANN S. HOLMES
Associate Dean

DREW LAMONICA ARMS
Director of Fellowship Advising

MICHAEL V. BLANDINO
Director of Student Services

ANTOINETTE R. BOLDEN
Assistant to the Dean

MARK A. DOCHTERMAN
Coordinator, Student Activities

TIA H. EMBAUGH
Director of External Relations

SHERRY L. GAUTHIER
Coordinator, External Relations

JEANETTE M. JOHNSON
Administrative Coordinator

JEREMY K. JOINER
Academic Advisor

AUTUMN L. MONTGOMERY
Academic Advisor

WILLIAM G. OSBORNE III
Director of Curriculum Development

CINDY SEGHERS
Coordinator, Experiential Learning

205 French House
225-578-8831
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The LSU Honors College is a highly selective four-year enrichment program for intellectually motivated undergraduate students. Honors students enter as freshmen and enroll in at least 32 hours of Honors courses over their four-year career, culminating in the production of an Honors thesis or project in their major field of study. From small enrollment seminars in the freshman year to independent research activities in preparation for the senior honors thesis, the Honors College experience is characterized by close interaction between Honors students and outstanding faculty.

Honors students pursue a rigorous academic program which satisfies all requirements for graduation, including the requirements of their major academic department. Honors courses go beyond the basic requirements to provide the basis for outstanding achievement and appropriate recognition at graduation. In the first two years of study in the Honors College, breadth of academic experience is emphasized. Honors work involves the student in a variety of fields ranging from the humanities to the sciences and students may elect to take specialized seminars in a variety of disciplines. Honors students in the junior and senior years usually become more focused in their majors, developing increasingly independent research interests and culminating in the production of a senior thesis or project under the direction of a faculty member in the student's major department.

Participation in the Honors College supplements, but does not replace, work in a major field. Credits earned in Honors College courses may be used to satisfy general education requirements or specific degree requirements. Honors College and departmental advisors assist in assuring that Honors students meet all requirements of each student's major curriculum.

ADMISSION REQUIREMENTS

Entering Freshmen

Entering freshmen with the following minimum ACT or SAT scores and a 3.50 academic high school gpa are invited to apply for admission to the college.

- ACT requirements—30 composite and 30 English or 29 composite and 31 English.
- SAT requirements—1320 combined math and critical reading and 660 critical reading.

Continuing or Transfer Students

Continuing students who have completed at least their first semester of college and have attained at least a 3.50 gpa are also invited to inquire about admission to the college.

Readmission

Students who have been dropped from the college may apply for readmission if they meet the following requirements:

- they have attained a minimum cumulative

gpa of 3.00; and

- they request registration in an honors course at the time of readmission.

RECOGNITION REQUIREMENTS

Honors College students earn their graduation degrees from LSU through their senior colleges and earn Honors College recognition by meeting the following requirements (for all recognition awards, see curriculum for description of courses eligible for Honors credit):

Good Standing: All students must be in good standing to participate in the Honors College, register for Honors courses, and be eligible for priority registration. Following the initial semester in the Honors College, an honors student is considered to be in good standing if he/she maintains a minimum cumulative gpa of 3.00 and successfully completes a minimum of two honors courses (five to six hours) per academic year in residence.

College Honors: Noted on both the diploma and the LSU transcript, College Honors is the culmination of the Honors College curriculum. Students who earn College Honors at graduation will receive special recognition at LSU commencement. To graduate with College Honors a student must meet all requirements as established by the student's own college including at least 32 hours of Honors classes as follows:

- a minimum of six hours of HNRS course work;
- 12 hours at 3000+ level, following upper division departmental honors programs, where they exist;
- senior thesis or project, following thesis guidelines;
- 3.5 gpa in cumulative, LSU, and honors course work.

Upper Division Honors Distinction: Students achieving this distinction will receive recognition at LSU commencement and on their transcripts. Students working toward upper division honors distinction are expected to indicate their intention, in person, to the Honors College upper division advisor who will furnish them with detailed requirements including the following:

- 12 hours of honors courses at the 3000 level or above, including three to six hours of thesis or project;
- Senior honors thesis or project following thesis guidelines;
- 3.50 gpa in both cumulative and LSU course work, and for all honors courses used in the student's Upper Division program.

Sophomore Honors Distinction: Recognition includes a notation on the transcript and a certificate awarded after the end of the fourth semester. This designation will be subject to approval by the dean of the student's college upon recommendation of the dean of the Honors College. To achieve this distinction, students must complete the following by the end of their fourth regular semester in college:

- 20 hours of HNRS or departmental honors courses, including a minimum of six hours of HNRS courses;
- A 3.50 gpa in cumulative, LSU, and Honors course work.

HONORS COLLEGE CURRICULUM

Honors students are required to take at least five to six hours of Honors courses per year to remain in good standing and at least 32 hours of Honors courses (including thesis) to graduate with College Honors. The following types of courses qualify for credit as Honors courses:

- **Honors College courses:** Designated with the HNRS prefix in the Schedule of Classes and administered by the Honors College. Example: HNRS 2013 The Twentieth Century.
- **Honors Departmental courses:** Designated with a departmental prefix and "Honors" in the course title as listed in the Schedule of Classes. Example: CHEM 1421 Honors: General Chemistry.
- **Honors Options:** The honors option is available to students when separate upper division honors courses are not available. A student will work with a professor to produce a contract outlining the work to be done in addition to the regular work for a given course. The student will enroll in this course and will obtain honors credit by successfully completing the work outlined in the contract. Honors option regulations and forms are available through the Honors College. Honors credit is noted on the transcript with the letter "H." Example: ENGL 3020 British Literature (H).
- **Honors Thesis/Project:** An Honors Thesis of high quality is required for students to graduate with College Honors. Students in all disciplines are encouraged to link their Honors thesis with requirements in

their own majors and must consult with their departments concerning its final format. The Honors Thesis should be completed in course work totaling at least six hours. Students may enroll in thesis preparation courses in their own departments, or may use Honors 3991 and Honors 3992 with the agreement of their department.

HONORS COLLEGE EXPERIENCE

Academic Experience

The goal of the Honors College is to prepare academically motivated students for success following graduation and throughout their future careers. In addition to Honors course work, Honors College students have the opportunity to engage in a wide range of academically related activities during their undergraduate careers. The Honors College advising staff works to guide students toward the following opportunities and students are encouraged to meet with our advisors on a regular basis.

- **Community Service Opportunities:** Freshmen can work together on a community service activity, learning to work together as a group and learning more about the LSU and Baton Rouge communities.
- **Study Abroad:** All Honors College students are encouraged to participate in foreign study programs, especially during their sophomore or junior years.

- **Research Assistantship/Internships:** In their junior year, Honors College students should identify areas of academic/career interest and begin to work on more specialized research under the supervision of a faculty member or on internships in fields appropriate to their career goals.
- **Postgraduate Fellowships/Scholarships:** In their senior year, Honors College students should identify and apply for prestigious fellowships and scholarships that pertain to their career interests.

Residential Experience

The Laville Honors House is a residential college affiliated with the Honors College. The residence hall is located adjacent to the Honors College classrooms and administrative offices in the French House and is available for all Honors College students (freshmen through seniors). The Laville Honors House provides a living environment that fosters academic excellence and close personal interaction between students and faculty. In addition to regular participation in activities by "Faculty Friends," faculty offices and seminar rooms are also located in the Laville Honors House to enhance student academic performance.

Honors Courses and Curricular Equivalents

In meeting the requirements for their degrees, honors students may substitute a number of honors courses (HNRS and departmental) for nonhonors courses required for their degree programs. A list of honors courses follows.

General Education Honors Courses (HNRS)	General Education Area	Format
HNRS 1001	Humanities	Seminar
HNRS 1003	Humanities; Social Sciences	Lecture
HNRS 1007	Natural Sciences (Life)	Lecture/Lab
HNRS 1008	Natural Sciences (Life)	Lecture/Lab
HNRS 1035	Natural Sciences (Life)	Seminar
HNRS 1036	Natural Sciences (Physical)	Seminar
HNRS 2000	English Composition; Humanities; Social Sciences	Seminar/Lecture
HNRS 2002	English Composition; Humanities	Seminar
HNRS 2004	Humanities; Social Sciences	Lecture
HNRS 2012	English Composition; Humanities; Social Sciences	Seminar
HNRS 2013	English Composition; Humanities; Social Sciences	Seminar
HNRS 2021	English Composition; Arts	Seminar
HNRS 3001	Humanities; Social Sciences	Seminar
HNRS 3003	Humanities; Social Sciences	Seminar
HNRS 3030	Humanities	Seminar
HNRS 3031	Humanities; Social Sciences	Seminar
HNRS 3033	Social Sciences	Seminar

Other Honors Courses (HNRS)	Format
HNRS 1101	Seminar
HNRS 1103	Lecture
HNRS 3010	Seminar
HNRS 3035	Seminar
HNRS 3100	Seminar or Research
HNRS 3991	Research
HNRS 3992	Research
HNRS 4813	Seminar
HNRS 4823	Seminar

Departmental Honors	Curricular Equivalent	Departmental Honors	Curricular Equivalent
ACCT	2002 2001 2102 2101 3002 3001	MC	★ 2001 ★ 2000 2011 2010 2016 2015 3003 3002 3019 3018 3081 3080 4091 4090 4096 4095 4104 4103 4112 4111 4212 4211
ANTH	4999 4998	MGT	3831 3830
ARCH	1102 1002 2101 2001 2102 2002 3101 3001 3102 3002 4101 4001 4102 4002 5101 5001	MKT	3402 3401
ART	2361 2360 2545 2544 2555 2554 2662 2661 2800 2881 2997 2996	MUS	★ 1755 1751 2733 2731 2734 2732
BIOL	1207 1208 ★ 1503 ★ 1202, 1209	OCS	★ 1006 ★ 1005
CHEM	★ 1421 ★ 1201 ★ 1422 ★ 1202 1431 1212 2003 2002 2461 2261 2462 2262 2463 2364	PHIL	★ 1001 ★ 1000 2053 2033
ECON	★ 2001 ★ 2000 ★ 2011 ★ 2010 ★ 2031 ★ 2030 2036 2035	POLI	★ 2052 ★ 2051 3896 4996 3897 4997
ENGL	★ 2823 ★ 2123 ★ 2824 ★ 2024 3925, 3927, 2920, 2921 3929 2922	PSYC	★ 2001 ★ 2000
ENVS	1127 ★ 1126 4036 4035	REL	★ 1006 ★ 1005 ★ 1007 ★ 1004 ★ 1015 ★ 1000 ★ 2030 ★ 2029 ★ 2031 ★ 2027
FREN	★ 2103 ★ 2101 ★ 2104 ★ 2102	SOCL	★ 2002 ★ 2001
GEOG	4999 4998	SPAN	2103 ★ 2101 2104 ★ 2102
GEOL	★ 1002 ★ 1001 ★ 1004 ★ 1003	THTR	★ 1021 ★ 1020 ★ 2128 ★ 2028
GREK	1002 1001 2052 ★ 2051	WGS	★ 2501 ★ 2500
HIST	★ 1002 ★ 1001 ★ 1004 ★ 1003 ★ 2056 ★ 2055 ★ 2058 ★ 2057	<i>General education courses are marked with stars (★)</i>	
HRE	2724 2723 3724 3723 4724 4723		
ISDS	1101 1100, 1102 2010 2000 2011 2001 3117 3115		
MATH	1101 ★ 1100 ★ 1551 ★ 1550 ★ 1553 ★ 1552 2058 2057 2086 2085		

MANSHIP SCHOOL OF Mass Communication

JOHN M. HAMILTON, *LSU Foundation
Hopkins P. Breazeale Professor of
Journalism; Dean*

DAVID D. KURPIUS, *Associate Dean for
Undergraduate Studies and Administration;
Thomas O. & Darlene Wood Ryder Professor*

MARGARET DeFLEUR
*Associate Dean for Graduate Studies and
Research; Doris Westmoreland Darden
Professor*

ANNE OSBORNE
*Associate Dean of Sponsored Research and
Programs; Tom Jarreau Hardin Professor*

211 Journalism Building
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MISSION OF THE MANSHIP SCHOOL

The mission of the Manship School of Mass Communication is to produce highly competent communicators with broad knowledge and training in the liberal arts and the media. The school promotes effective communication, critical thinking, and ethical responsibility. Overall, and especially in the graduate program, the school is committed to leading the study and practice of media and public affairs. Believing that media should reflect society and provide leadership to society, the school seeks diversity in its outlook, student body, and staff.

ADMISSION REQUIREMENTS

Admission to the Manship School is competitive. At a minimum, applicants must have completed at least 30 hours of college-level course work, including MC 2010, *Media Writing*, with a course grade of "B" or better. Applicants presenting the highest qualifications will be accepted into the Manship School each semester of the academic year. Students with a 3.00 LSU gpa and a 3.00 cumulative gpa will be given priority for admission on a space available basis. Grade point average will remain the primary factor for admission, but secondary factors taken into account include the need to balance enrollment among the school's areas of concentration, demographic diversity, demonstrated professional potential through work on high school or college media, or other life experiences that suggest a strong likelihood of success as a communication professional.

Application Process • Students should apply by the Friday of the final week of classes of the semester in which they will have completed the 30 hours of course work and earned a "B" or better in MC 2010; however, they may apply at any time after they have met the minimum criteria. Applications for admission to the Manship School must be submitted directly to the school's main office. The school's Application Review Committee will attempt to notify applicants of admission decisions prior to the first day of class each semester. Students who are denied admission may reapply for admission in a subsequent semester.

Transfer Students • Transfer students must complete a minimum of 12 hours of course work on the LSU campus with at least a 3.00 LSU gpa and cumulative to be eligible for admission to the Manship School. All other admission guidelines and procedures described above also apply to transfer students.

READMISSION

Students who were not registered at LSU for the preceding regular semester must file a formal application for readmission. Readmission to the Manship School is not automatic.

STUDENT RESPONSIBILITY

Students in the Manship School bear final responsibility for selection of their academic programs and adherence to all published regulations and requirements of the school and the University. Each student must see a counselor for a final degree checkout during the semester *prior to* the semester in which the degree is to be awarded.

Ignorance of the rule is not grounds for waiving that rule.

Mass communication students are expected to be proficient in the use of English.

All written assignments must be typewritten. Students must provide word processors for all of their assignments except those written in scheduled laboratories.

Mass communication majors must earn at least a "C" in any mass communication course. For any mass communication course, a "C" or better is required in prerequisite mass communication courses.

MANSHIP SCHOOL OF MASS COMMUNICATION • UNDERGRADUATE DEGREE	
Curriculum	Degree
Mass Communication	Bachelor of Arts in Mass Communication

AREAS OF CONCENTRATION

The Bachelor of Arts in Mass Communication (BAMC) degree is conferred on students who complete a concentration in one of the following four areas: advertising, journalism, political communication, or public relations. All areas are fully accredited by the Accrediting Council on Education in Journalism and Mass Communication.

The *advertising* concentration develops skills in marketing, research, media, and creative planning and execution. Graduates typically become involved in account development and management; media analysis, research, and sales; copywriting; advertising design; and sales promotion.

The *journalism* concentration develops skills in researching, interpreting, organizing, and reporting issues of vital importance to a democratic society. Students are cross-trained in the theory and practice of journalism for print (newspapers and magazines), broadcast (television), and news media (Internet). Graduates usually become reporters, editors, and producers.

The *political communication* concentration develops skills in interpreting and communicating information to mass media practitioners and other individuals involved in the political process. Students normally aspire to careers in public or governmental communication, political reporting, and political campaigns.

The *public relations* concentration develops skills and prepares future practitioners in planning and executing the building of relationships and coalitions to advance an enterprise. Graduates typically move to positions in media, governmental, investor, community, and employee relations; special events management; issues management; and public relations counseling.

GENERAL EDUCATION REQUIREMENTS

General education requirements of the University are included in the curriculum for mass communication. For specific information concerning these requirements, see the "General Education Requirements" section of this catalog.

DEGREE REQUIREMENTS OF THE SCHOOL

To qualify for a bachelor's degree in this school, a candidate must satisfy these requirements:

- A minimum gpa of 2.00 ("A" = 4) on all work taken in the LSU System and on all work taken.
- A minimum gpa in the major field (mass communication) of 2.00 ("A" = 4) on all work taken in the LSU System and on all work taken.
- At least a "C" in any mass communication course. (In addition, for any mass communication course, a "C" or better is required in prerequisite mass communication courses.)
- A minimum of 128 semester hours of degree credit.
- A minimum of 34 semester hours in courses numbered 2000 or above and an additional 30 semester hours in courses numbered 3000 or above.
- Degree credit will not be allowed for more than nine semester hours of 1000-level mathematics courses below 1550.
- A minimum of 30 semester hours in residence in the Manship School. The last year of work (30 semester hours) will be taken in residence in this school on the LSU campus.
- A *minor in a department other than mass communication*. The minor will be defined by the minor department.
- English proficiency—a "C" or better in ENGL 2000 or the equivalent.
- Foreign language—a level of proficiency in one foreign language as required in the mass communication curriculum. Students should take a placement test and register at the appropriate level. Credit, up to a maximum of 14 semester hours, may be earned by placement.

Students who have a native fluency in a language other than English may satisfy the foreign language requirement in one of three ways: (a) by completing the prescribed number of hours in the curriculum for the BA or BS degree in a language *other than* English or their native language; (b) by taking a minimum of six hours in courses numbered 3000 or above in their native language; or (c) by taking nine semester hours of English and/or speech above the minimum requirements, as stated in the curriculum for the BA or the BS degree. (Only three hours may be earned in English 2001, 2002, or 2010 to meet this requirement. Professional and specialized courses in speech may not be counted toward

this requirement.)

Students who have a native fluency in a language other than English should consult credit restrictions in that language under the appropriate foreign language department entry in this section of the catalog.

ELECTIVES

Students may choose any degree credit courses offered by the University consistent with their degree requirements. However, no more than 12 semester hours of ROTC or eight hours of kinesiology may be counted for degree credit.

PASS-FAIL OPTION

Students may not elect the pass-fail grading option for courses within their major. Only the internship (3998) and independent study (4999) courses are graded on a pass-fail basis.

TRANSFER OF CREDIT FROM OTHER INSTITUTIONS

In the Manship School, transfer credits accepted by the Office of Undergraduate Admissions shall be valid for degree credit only to the extent to which they satisfy courses in the curriculum of the school. Credit in mass communication courses in which grades of "D" have been earned is not accepted for transfer toward the degree requirements, if the course is taken outside the LSU System. Students enrolled in this school who wish to obtain credits from other colleges or universities (including other campuses of the LSU System), and who plan to use such credits toward degree requirements, should obtain *prior approval* in writing on a specific-course basis from the associate dean for undergraduate studies of the Manship School.

CORRESPONDENCE CREDIT

A maximum of 32 semester hours of credit in the above categories is acceptable toward meeting degree requirements. Students who wish to have correspondence credits accepted by the Manship School must make their registration in correspondence courses a matter of record in the office of the dean in the school at the time of such registration.

Students registered in the school may enroll in a maximum of 19 semester hours of combined resident and correspondence course

work during a regular semester. They may enroll in a maximum of 12 semester hours of combined resident and correspondence work during a summer term. *Students may not be enrolled in correspondence course work the semester they intend to graduate. Depending on the correspondence course, a special time limit may be imposed by the dean's office.*

MINOR FIELD REQUIREMENTS

Students may apply to declare a *minor in mass communication* after completion of 30 semester hours of course work and successful completion of MC 2010. Those who have completed 30 semester hours with at least a 3.00 gpa and MC 2010 with at least a grade of "B" will automatically be allowed to minor in mass communication. Students who do not meet *both* of these standards will be allowed in the minor on a space available basis.

Students minoring in mass communication must complete 18 semester hours in the Manship School of Mass Communication. Mass communication minors must earn at least a grade of "C" in any mass communication course taken as part of the minor. For any mass communication course, a grade of "C" or better is required in prerequisite mass communication courses.

► Business Administration

To graduate with a *minor in business administration*, students must complete ACCT 2000; ECON 2030; FIN 3715; ISDS 1100; MGT 3200; MKT 3401.

► Mass Communication

General Minor • Students desiring to pursue a *general minor in mass communication* must complete the following six core courses: MC 2000, 2010, 2525, 3018, 3080, 4090.

► Political Communication

To graduate with a *minor in political communication*, students must complete 18 semester hours from the following: MC 3504, 3505 and 4520; six hours from two additional political communication courses; and three hours of a POLI 4000-level course.

► Visual Communication for Students in Design

The Manship School offers an undergraduate minor in visual communication limited to students in the College of Art and Design. Students may choose one of three concentrations: *print journalism, electronic journalism, or advertising*. To graduate with a *minor in visual communication*, students must complete 18 hrs. in mass communication: MC 2010, 4090, and 12 hrs. from one of the following sequence of courses: *print journalism*: MC 3065, 3101, 3103, and 4010; or *electronic journalism*: MC 3102, 3104, 4260, and 4270; or *advertising*: MC 3031, 4034, 4040, and 4045.

CURRICULUM IN MASS COMMUNICATION

TOTAL SEM. HRS. • 128

Students majoring in mass communication must complete at least 39 hours in mass communication courses, including 21 hours of core courses—MC 2000, 2010, 2015, 2525, 3018, 3080, and 4090—and all of the requirements under one of the areas of concentration listed below: advertising, journalism, political communication, or public relations.

**Students choosing French, German, or Spanish as their foreign language will take four to eight hours, depending on placement. Other languages may require as many as 10 hours. Some adjustment in elective hours may be necessary.*

***MC 2000 is a required course and is counted as a general education humanities course.*

****Students in the advertising area of concentration must take EXST 2201.*

*****If two course sequence is taken in the physical science, the additional three hour course must be taken from the life sciences, and vice versa.*

FRESHMAN YEAR	SEM. HRS.
English 1001.....	3
Foreign language courses*.....	8-10
History 1001, 1003 or Geography 1001, 1003	6
Mass Communication 2000**, 2010.....	6
Mathematics 1021 or 1029.....	3
General education natural science.....	6
Library and Information Science 1001.....	1
	—
	33-35

SOPHOMORE YEAR	SEM. HRS.
Economics 2000 and 2010, or 2030.....	6-3
English 2000.....	3
General education analytical reasoning course***.....	3
General education natural science****.....	3
History 2055, 2057.....	6
Mass Communication 2015, 2525.....	6
Approved area of concentration elective.....	0-3
Social sciences general education course.....	3
Approved elective.....	3
	33

JUNIOR YEAR	SEM. HRS.
Area of concentration courses.....	9
Mass Communication 3018, 3080.....	6
Approved electives.....	9
Approved social sciences or humanities courses.....	9
	33

SENIOR YEAR	SEM. HRS.
Mass Communication 4090.....	3
Area of concentration courses.....	6-12
General education arts course.....	3
Approved social sciences or humanities electives.....	6
Approved electives.....	11-3
	29-27

Areas of Concentration

◆ Advertising (27 hrs.)

Mass communication requirements (12 hrs.): MC 3031, 4034, 4040, 4045; electives (6 hrs.); other requirements (6 hrs.): ACCT 2000 or 2001, MKT 3401

◆ Journalism (21 hrs.)

Mass communication requirements (12 hrs.): MC 3101, 3102, 3103 or 3104, and 4500; electives (6 hrs.); other requirements (3 hrs.): ACCT 2000 or 2001, or one approved statistics course

◆ Political Communication (24 hrs.)

Mass communication requirements (12 hrs.): MC 3504, 3505, 4520, and one of the following: MC 3031, 3101, 3102, 4001, or MC 4515; mass communication electives (6 hrs.); other requirements (6 hrs.): EXST 2201; POLI 2051 or 2053 or 2057 or 4000-level political science course

◆ Public Relations (27 hrs.)

Mass communication requirements (12 hrs.): MC 3010, 4001, 4004, 4005; electives (6 hrs.); other requirements (9 hrs.): ACCT 2000 or 2001, MGT 3200, MKT 3401

PRACTICAL MEDIA EXPERIENCE

Mass communication students gain considerable practical experience to supplement classroom instruction. In some courses, students work on news and advertising assignments for *The Reveille*, for the campus radio station, KLSU, and for the campus television station, Tiger TV. Students in advanced reporting courses acquire experience with the *Baton Rouge Advocate*, and other local media.

PLACEMENT SERVICES

Students in the Manship School may use the services of the University's Career Services. These services include counseling, job-seeking skills workshops, job search handbooks, résumé service, career days, and on-campus recruiting and interviews.

STUDY ABROAD

Students in the Manship School are encouraged to participate in the study abroad programs administered by the Office of Academic Programs Abroad and the International Student Exchange Program. Students who participate in these programs must receive school evaluation of the courses to be taken. In addition, students must make an appointment with a counselor to ensure that degree credit will be granted upon return to LSU.

NATIONAL STUDENT EXCHANGE

LSU cooperates with a number of other universities throughout the U.S. in an exchange program. Students may spend one year (usually the junior year) at another university at little or no more cost than they pay at LSU. Additional information can be obtained from the Office of Academic Programs Abroad.

MANSHIP SCHOOL STUDENT GOVERNMENT ASSOCIATION

The Manship School Student Government Association serves as a liaison between the Manship School's undergraduate student body and the school's dean. The association is also the official representative to the LSU Student Government.

HONOR SOCIETIES

Students in the Manship School are eligible for membership in several national honorary organizations.

Founded in 1897 at the University of Maine, *Phi Kappa Phi* is the nation's oldest, largest, and most selective honor society for all academic disciplines. Its chapters are on nearly 300 campuses in the United States, Puerto Rico, and the Philippines. Each year, approximately 30,000 members are initiated. Some of the organization's more notable members include former President Jimmy Carter, writer John Grisham, NASA astronaut Wendy Lawrence, and Netscape founder

James Barksdale. The LSU Chapter was founded in 1930 as the 43rd chapter in the nation.

The mission of Phi Kappa Phi is to recognize and promote academic excellence in all fields of higher education and to engage the community of scholars in service to others. Phi Kappa Phi is unique because it recognizes superior scholarship in *all academic fields*, rather than restricting membership to a limited field. Juniors in the top 7.5 percent and seniors and graduate students in the top 10 percent of their classes may be invited to become members of Phi Kappa Phi. New LSU Phi Kappa Phi members are initiated and honored in the spring semester each year and wear identifying ribbons on their academic gowns at commencement exercises. Additional information about the Society may be found at www.phikappaphi.org.

Omicron Delta Kappa is the national leadership honor society for college students that recognizes and encourages superior scholarship, leadership, and exemplary character. Membership is awarded to undergraduate junior and senior students—and

occasionally to students in graduate school—as well as to faculty, staff, and community members. Student membership candidates must rank academically in the upper 35 percent in the school/college and must demonstrate leadership. Membership in ODK is a mark of highest distinction.

THE HONORS PROGRAM

An honors program is available to Manship students. Requirements may be obtained from the Honors College, 205 French House. To best serve mass communication honors students, the Manship School offers honors courses, allowing students to take many of their honors hours within the Manship School. Non-honors students may take honors courses in the Manship School when space is available. The following courses are regularly scheduled Mass Communication honors courses: 2001, 2011, 2016, 3003, 3019, 3081, 4091, 4096, 4104, 4112 and 4212.

COLLEGE OF Music & Dramatic Arts

LAURENCE KAPTAIN, *Dean;*
Penniman Family Professor of Music

JANE W. CASSIDY, *Interim Associate Dean;*
Interim Co-Director, School of Music;
Roy and Margaret Gianelloni LSU Alumni
Association Departmental Professorship in
Music

LORI BADE, *Interim Director of Graduate*
Studies, School of Music; Interim Co-Director,
School of Music; Nell S. and Boyd H. McMullen
Professor of Voice

MICHAEL S. TICK, *Chair and Artistic*
Director, Swine Palace; Professor of Theatre

GEORGE JUDY, *Head of MFA Acting*
Program; Associate Professor of Theatre

JAMES L. MURPHY, *Head of MFA*
Technology/Design Programs; Associate
Professor of Theatre

KRISTIN SOSNOWSKY, *Associate Chair and*
Managing Director, Swine Palace; Associate
Professor of Theatre

LES WADE, *Head of PhD Program,*
Department of Theatre; Billy J. Harbin
Professor of Theatre

CAROL LARSEN
Assistant Dean, Undergraduate Programs

191 Music & Dramatic Arts Building
225-578-9959
FAX 225-578-9975

The College of Music & Dramatic Arts is comprised of the Department of Theatre and the School of Music. The Department of Theatre offers theatrical productions under the joint auspices of the LSU Theatre and Swine Palace, the latter being a professional equity theatre. Divisions in the School of Music are: Academic Studies, Bands, Ensembles and Conducting, Instrumental, Keyboard, Music Education, and Voice/Opera. Areas of concentration in the Department of Theatre are: Performance, Design/Technology, Theatre Studies, Arts Administration, and Literature/History/Theory. Both the Department of Theatre and the School of Music offer comprehensive degree programs from the baccalaureate through the doctorate.

The primary goals of the college are:

- to offer advanced training in the performing arts to students who are committed to developing their innate talents;
- to make the performing arts a cultural asset in their lives and the lives of others;
- to prepare graduates for leadership roles and careers in the performing arts.

The School of Music and the Department of Theatre at LSU have long been recognized regionally and nationally for the quality of their performance and research programs. Their faculties have distinguished themselves as specialists in their fields and many currently lead their respective discipline's professional associations. Student groups have appeared as invited featured performers at the Kennedy Center in Washington, D.C., Notre Dame Cathedral (France), Berlin Cathedral (Germany), and at national and regional conferences and conventions.

The college provides numerous public performances and opportunities for artistic learning and cultural enrichment throughout the year for students and the community at large.

ADMISSION REQUIREMENTS

Within the framework of University regulations, students may be admitted to the college according to the following policies:

- **Entering Freshmen** who meet the University admissions standards and have a declared major within the College of Music & Dramatic Arts will be admitted to the college during Freshmen Orientation. Prospective music majors must successfully audition before they may be admitted to the college or register for music major courses.
- Students may be admitted from University College to the college provided that they have credit for the freshman-year courses for the curriculum they plan to follow and with an audition for the appropriate faculty (required for music majors only).

- **Transfer students** from University College or other divisions of LSU, or from other colleges and universities who have met the general entrance requirements of the University, and who have passed the required audition for admission (music majors only) may be admitted to the college. Students must have earned a cumulative grade point average of 2.00 or better to be admitted unconditionally to the Bachelor of Music Education degree program. All transfer students in music must take an advisory examination in theory. This includes ear-training, keyboard work, harmonization, and analysis. The results of the examination will be used to aid in planning a practical schedule of courses consistent with the student's training and ability. The examinations are given at stated times during registration in each semester or summer term. Students in music degree programs also must audition. See the "School of Music" information in this chapter.

CORRESPONDENCE CREDIT

Up to one-fourth of the number of hours required for the baccalaureate degree may be taken in correspondence courses. Acceptance of such work is contingent upon its applicability to the student's curriculum; therefore, students should obtain approval from the dean of the College of Music & Dramatic Arts before registering for correspondence courses. Correspondence study in music theory and work in applied music completed through other universities or colleges must be verified by examination and auditions.

REQUIREMENTS FOR A SECOND BACHELOR'S DEGREE

A person holding a baccalaureate degree who wishes to obtain a second baccalaureate degree through this college must satisfactorily complete all requirements in the curriculum selected. In addition, general University requirements for a second bachelor's degree must be met.

GRADUATE PROGRAMS

The Graduate School offers the following degrees in the field of music: Master of Music, Doctor of Musical Arts, and Doctor of Philosophy. The following graduate degree programs are available in theatre: Master of Fine Arts (acting) and the Doctor of Philosophy. The requirements for these degrees are given in the *Graduate Bulletin*.

COLLEGE OF MUSIC & DRAMATIC ARTS •

UNDERGRADUATE DEGREES

School/Department	Curricula	Degrees
School of Music	Music	Bachelor of Music
	Music	Bachelor of Arts
	Music Education	Bachelor of Music Education
Department of Theatre	Theatre	Bachelor of Arts

MINOR FIELD REQUIREMENTS (OPTIONAL)

Students in the School of Music may earn a *minor in another field* under the following conditions:

- Students must earn at least 15 semester hours in the minor field, of which at least six semester hours must be taken on this campus and at the 3000 and/or the 4000 level.
- Each course used in the minor must be passed with a grade of “C” or better.
- Courses used for the minor may not be taken on a pass-fail basis.

Minor fields may be chosen from any major field currently offered in which the specific requirements for a minor have been established and approved by the Faculty Senate Courses and Curricula Committee and the Office of Academic Affairs.

The department offering the minor may impose additional requirements.

► Dance

To graduate with a *minor in dance*, students must complete at least 18 hrs. of dance courses as follows:

- core (9 hrs.): THTR 1800, 3802 or 3803, 4801;
- technique (6 hrs.): THTR 1127, 1131, 1153, 1227, 1231, 1253 (*courses may be taken twice for credit, two technique courses must be at intermediate level*); and
- electives (3 hrs.): THTR 1029, 1804, 4804.

► Music

To graduate with a *minor in music*, students must complete:

- an audition in their applied area to be accepted as a music minor.
- MUS 1740, 1741.
- 2731 and 2732 or MUS 2053 and 2054.
- 12 hrs. of the appropriate major applied music course (brass, composition, woodwinds, percussion, strings, harp, piano performance, organ, and voice).
- At least six sem. hrs. must be taken on this campus and at the 3000 and/or 4000 level, excluding ensembles.
- Each course used in the minor must be

passed with a grade of “C” or better.

- Courses used for the minor may not be taken on a pass/fail basis.

► Theatre

In order to graduate with a *minor in theatre*, students must complete at least 19 hours of theatre courses as follows:

- theatre core—THTR 1025, 2022, 2026, 2028; and
- theatre electives—at least nine additional hours of theatre at an advanced (3000/4000) level.

PHI KAPPA PHI

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DEPARTMENTS, SCHOOLS, AND CURRICULA

SCHOOL OF MUSIC

OFFICE • 102 School of Music Building
TELEPHONE • 225-578-3261
FAX • 225-578-2562
WEB SITE • www.music.lsu.edu

The School of Music offers several curricula and special courses of vocational as well as avocational nature. These curricula are outlined below. The vocational programs prepare students to be performers, composers, scholars, or teachers and culminate with the undergraduate degree, Bachelor of Music. The Bachelor of Music Education degree is designed to train students to teach vocal and instrumental music in the public schools where state certification is required. Persons wishing a broader variety of subjects in addition to a basic foundation in music may follow the curriculum leading to the Bachelor of Arts in Music.

Avocational programs are offered through courses in music appreciation, music history, music fundamentals, and jazz history. Participation in the various performing organizations is also available, based upon audition. Private lessons are offered to students who qualify through audition, based on the availability of teacher time.

The curricula in music education meet requirements of the Louisiana State Department of Education for accrediting various types of music instructors in the Louisiana public schools and are approved by the National Council for Accreditation of Teacher Education and the National Association of Schools of Music. The School of Music is an accredited institutional member of the National Association of Schools of Music.

AUDITIONS

For Admission • An audition in the major performance medium (piano, voice, etc.) is required of all students wishing to pursue curricula in the School of Music. The audition can be on campus or by tape record-

ing. Contact the School of Music for details.

For Applied Music Courses • All applied music courses are open to both majors and nonmajors by audition only. New students or reentry students who have been out of school for more than one year and plan to continue in a performance curriculum should contact the School of Music to arrange an audition during the semester prior to the one in which the student wishes to be enrolled. All students must complete an audition before registering for applied music courses. Auditions may be arranged during registration at the beginning of each semester, but it is recommended that this audition occur no later than the semester prior to entry.

For Ensemble Courses • All music ensemble courses are also open to both majors and nonmajors by audition only, with the exception of MUS 4230, 4232, and 4233 which require no audition. Students should contact the director of the ensemble in which they wish to participate to arrange an audition during the registration period the semester prior to the one in which the student wishes to participate. Auditions may also be arranged during late registration at the beginning of each semester.

GENERAL REQUIREMENTS

All students enrolled for private lessons in performance, regardless of their college or school (with the exception of graduate keyboard and graduate voice students) may, at the discretion of the dean of the School of Music, in consultation with the conductor of the organization concerned and the applied teacher, be required to participate in one of the major performing organizations for laboratory experience.

Participation in major ensembles appropriate to the major instrument is required of all music majors. (See list of ensembles under Music Courses). MUS 4253 may count as a major ensemble as follows:

- (1) BA in Music with a primary emphasis in Jazz, all four required ensemble hours;
- (2) BA in Music with primary emphasis other than Jazz, two of the four required ensemble hours;
- (3) BM with all concentrations, two of the eight required ensemble hours; and
- (4) BME with instrumental concentration, two of the seven required ensemble hours.

Students are not charged for private lessons or for use of school-owned instruments, equipment, or practice rooms, although a maintenance/repair fee may be charged. A fee of \$10 per year is charged for the use of a locker; a nonrefundable fee of \$75 is charged when a recital is scheduled.

An honors curriculum is available within the Bachelor of Music curriculum. Students should contact the Honors College and the School of Music for details.

Electives may include six semester hours of basic ROTC. All students in the School of Music are required to take those courses in science, humanities, social sciences, analytical reasoning, and fine arts, which will satisfy the general education requirement. Please refer to the list of approved general education courses which can be found in a separate section of this catalog.

At the completion of the fourth semester of study, all majors in music and music education will be required to take a

performance examination, which will determine continued study as a major at the junior level. Composition majors will be required to submit written examples of their work to the appropriate undergraduate committee. Consult the guidelines, standards, and procedures developed by each individual area.

BACHELOR OF MUSIC DEGREE REQUIREMENTS

- Completion of a minimum of 130 semester hours with a gpa of 2.00 or better on all work attempted
- A grade of "C" or better in all required music courses
- Participation in major ensembles (see GENERAL REQUIREMENTS)

CURRICULUM IN MUSIC (BM DEGREE)

TOTAL SEM. HRS. • 128

FRESHMAN YEAR	SEM. HRS.
English 1001 or 1004.....	3
Mathematics 1021 or 1029	3
General education analytical reasoning course	3
General education humanities courses	3
Music 1700 (2 semesters)	0
Music 1740, 1741	4
Major applied music courses	6
Electives or area of concentration courses	7
	<hr/> 29

SOPHOMORE YEAR	SEM. HRS.
English 1005 or 2000.....	3
General education natural sciences courses ..	6
General education humanities course.....	6
Music 1700 (2 semesters)	0
Music 2731 or 2733, 2732 or 2734	8
Major applied music courses	6
Electives or area of concentration courses	5
	<hr/> 34

JUNIOR YEAR	SEM. HRS.
General education natural science course	3
Music 1700 (2 semesters)	0
Music 2053, 2054	6
Music 3731 or 3733, 3732 or 3734	8
Major applied music courses	6
Electives or area of concentration courses	11
	<hr/> 34

SENIOR YEAR	SEM. HRS.
General education social sciences courses	6
Music 1700 (2 semesters)	0
Major applied music courses	5
Electives or area of concentration courses	20
	<hr/> 31

Areas of Concentration

◆ Brass/Woodwind/Percussion

Major Ensemble Courses (8 hrs.)
Chamber Music Courses (4 hrs.)
Other Required Courses (13 hrs.)—MUS 1130, 1131, 1132, 1133, 3771, 4797 and MUS 4126 or 4128 or 4130; select one from MUS 4710, 4712, 4718, 4719, 4720, 4721, or 4723
Approved Electives (12 hrs.): A minimum of 12 hrs. chosen from MUS 2131, 3131, 2751, 2752, 3772, 4215, 4216, 4253, 4761, 4762, MUED 3171 and any 4000-level courses in

music history or theory, or foreign language courses, which will be limited to a maximum of 10 hrs.

Electives (6 hrs.)

Other Requirement: A "B" average in the applied major is required at the end of the fourth semester of study in order to pass the sophomore barrier exam.

◆ Composition

Major Ensemble Courses (7 hrs.)—students enrolled in applied lessons may be required to participate in an ensemble.

Secondary Applied Courses (14 hrs.)—seven semesters are required, at least six of which must be in the same instrument.

Other Required Courses (14 hrs.)—MUS 3771, 4721, 4723, 4730, 4745, 4798

Other Requirements: Piano proficiency at the level of completion of MUS 1133 and participation in Composer's Forum. In the senior year, MUS 3153, Applied Electroacoustic Music, may be substituted for one semester of MUS 3151, Applied Composition.

Electives (8 hrs.) May not choose from MUS 1010, 1100-level, 1751, or 1799. Electives in such areas as computer science, acoustics, and aesthetics are recommended.

◆ Harp

Major Ensemble Courses (8 hrs.)

Chamber Music Courses (4 hrs.)

Other Required Courses (19 hrs.)—MUS 1130, 1131, 1132, 1133, 3771, 4772, 4773 (minimum of 4 semesters) 4774, 4797; select one from MUS 4215, 4216, and MUED 3171, or any 4000-level course in music history or theory other than those applied to degree requirements

Electives (12 hrs.)—May not choose from MUS 1010, 1100-level, 1751, or 1799

◆ Organ

Major Ensemble Courses (8 hrs.)—MUS 4101, 4220, and 4224 may be used to satisfy a max. of one-half of the major ensemble requirement.

Other Required Courses (25 hrs.)—MUS 2131 or 3131 (8 hrs. and a minimum of four semesters) and MUS 3749, 3757, 3758, 4701, 4702, 4797; select one from MUED 3171, MUS 4215, 4216, or any 4000-level course in music history or theory other than those applied to degree requirements

Electives (10 hrs.)—May not choose from MUS 1010, 1100-level, 1751, or 1799

◆ Piano Pedagogy

Major Ensemble Courses (8 hrs.)—MUS 4101, 4220, and 4224 may be used to satisfy a max. of one-half of the major ensemble requirement.

Other Required Courses (23 hrs.)—MUS 3749 or 3771 and 4757, 4758, 4763, 4764, 4769, 4770, 4797; select one from MUED 3171, MUS 4215, 4216, or any 4000-level course in music history or theory other than those applied to degree requirements.

Electives (12 hrs.)—May not choose from MUS 1010, 1100-level, 1751, or 1799

Other Requirements: Solo performances on at

least two student recital hour programs or their equivalent during the period of undergraduate study. The senior recital may be a joint recital.

◆ Piano Performance

Major Ensemble Courses (8 hrs.)—MUS 4220, 4224, and/or 4101 may be used to satisfy four hrs. of the major ensemble requirement. Two semesters of MUS 4101 (Piano Accompanying) are required.

Other Required Courses (22 hrs.)—MUS 3749 or 3771 and MUS 4723, 4757, 4758, 4763, 4764, 4797; select one from MUS 4710, 4712, 4718, 4719, 4720, or 4721

Approved Electives (5 hrs.)—a minimum of 5 hrs. chosen from MUS 2133, 3133, 4215, 4216, 4767, MUED 3171 and any 4000-level courses in music history or theory other than those applied to degree requirements and any foreign language courses

Other Requirements: Solo performances on at least four student recital hour programs or their equivalent during the period of undergraduate study. A junior recital may be elected in lieu of two such performances with the approval of the major professor.

Electives (8 hrs.)

◆ Strings

Major Ensemble Courses (8 hrs.)

Chamber Music Courses (4 hrs.)

Other Required Courses (13 hrs.)—MUS 1130, 1131, 1132, 1133, 3771, 4124, and 4797; select one from MUS 4710, 4712, 4718, 4719, 4720, 4721, or 4723

Approved electives (12 hrs.)—a minimum of 12 hrs. chosen from MUS 2131, 3131, 3000, 3997, 4215, 4216, 4228, 4253, 4260, MUED 3171, and any 4000-level course in music history or theory other than those applied to degree requirements and any foreign language courses

Electives: (6 hrs.)

◆ Voice

Major Ensembles Courses (8 hrs.)—Students enrolled in applied voice may be required to participate in an ensemble.

Other Required Courses (21 hrs.)—MUS 1018, 1019, 1020, 2018, 1130, 1131, 1132, 1133, 3018, 3749, 4240 (2 semesters) 4351, 4352, 4797

Approved Languages (6 hrs.)—French, German, or Italian

Electives (8 hrs.)—may not choose from MUS 1010, 1100-level, 1751, or 1799

BACHELOR OF MUSIC EDUCATION

In view of its responsibility to the teaching profession, the *School of Music reserves the right to review at any time a student's suitability to continue in the teacher education program in music education.* Faculty members are encouraged to monitor the growth of prospective teachers enrolled in the program.

After completion of 24 semester hours with at least a 2.25 gpa, students will be eligible for the first level of admission into the music education program within the School of Music, the Basic Education Program. This

means that the student has formally declared a major, but is not yet eligible for admission to the second level, the Teacher Education Program. Students must qualify for the second level before they have earned 75 semester hours.

To qualify for and remain in the Teacher Education Program at the conclusion of the sophomore year, students must fulfill requirements of the sophomore upper-level examinations in music education. Each student must:

- minimum cumulative and LSU grade point average of 2.50 for entry into and continuation in upper (3000/4000) level education courses, including student teaching;
- passing scores on all parts of the Praxis I Series or minimum ACT composite score of 22 or minimum SAT composite score of 1030;
- pass the applied music upper-level examinations for music education majors;
- pass a piano proficiency examination and piano majors must satisfy vocal proficiency requirements;
- have favorable evaluations of ensemble work by the appropriate ensemble directors; and
- have a favorable recommendation by the music education faculty on the basis of an interview with that faculty.

Students will not be allowed to take EDCI 3136, MUED 3170, 3171, 3630, or PSYC 2078 until they have been accepted into the teacher education program in music education by successfully completing the fourth semester performance examination.

All students are expected to earn a grade of "C" or better in one of the following or have the equivalent transfer credit: ENGL 2000, 1005 (international students), 2001, or 2002 or HNRS 2002, 2011, 2012, 2013, 2021, or 2202. Students who fail to do so must repeat the course. Any student not declared proficient within three semesters after entering the School of Music will be dropped from the music education program.

Students enrolled in the music education program who are on scholastic probation will be dropped from the program for failure to earn a minimum 2.00 gpa during any semester. Students enrolled in the music education program who fail to earn a minimum 2.00 gpa for two consecutive semesters will be dropped from the program.

Students within 14 semester hours of graduation who are not qualified for student teaching will be dropped from the program.

STUDENT TEACHING

Application for Student Teaching

Application for student teaching must be made to the music education faculty no later than one week following the last day for adding courses in the semester *prior* to student teaching.

Requirements for Student Teaching

Student teaching is offered each fall and spring semester, scheduled as an all-day, Monday through Friday experience. Student teachers must also plan for 3:30-4:30 p.m.

meetings on Monday. The student teaching experience must include a minimum of 270 clock hours, 180 of which must be actual teaching. A substantial portion of the 180 clock hours in actual teaching must be on an all-day basis.

No student may schedule more than 15 semester hours of work during the semester in which student teaching is done. Any student who is within 14 hours of graduation and is not qualified for supervised student teaching will be dropped from the program.

To be permitted to do student teaching, the student must meet the following requirements:

- Attainment of senior standing in the School of Music, with a cumulative average of 2.50 on all work attempted and on all work at LSU, with no grade lower than "C" in all music courses and professional education courses, including PSYC 2078, regardless of the institution(s) attended
- Completion of *all* courses
- Proficiency in written expression
- Take the required PRAXIS II assessments during the last semester of course work prior to student teaching

DEGREE REQUIREMENTS

Degrees in the music education programs in this college are conferred when the following conditions have been met:

- Satisfactory completion of an approved program of study as determined by all of the following: faculty of the School of Music, the University, the LSU P-12 Education Advisory Council, and the Louisiana Board of Elementary and Secondary Education;
- Minimum cumulative and LSU gpa of 2.50 on all work completed;
- Passing scores on all required parts of the Praxis II Series
- Grade of "C" or higher in course work as specified by the Louisiana Board of Elementary and Secondary Education;
- Completion of the final 30 semester hours of work done in residence on the LSU campus as a registrant in the School of Music; and
- Proficiency in written expression.

PROFICIENCY IN ENGLISH

To be certified as proficient in English, students in this school must earn a grade of "C" or better in ENGL 2000, 1005 (international students), 2001, or 2002 or HNRS 2002, 2011, 2012, 2013, 2021, or 2202 or have the equivalent in transfer credit. Students whose grades are lower than "C" must repeat the course. Any student not declared proficient within three semesters after entering the music education program will be dropped from the program.

CORRESPONDENCE AND EXTRAMURAL CREDITS

Up to one-fourth of the number of hours required for the baccalaureate degree may be taken through Continuing Education by correspondence study, registration as an extension student, or both. Students may not schedule correspondence or extramural work

during the last 30 hours of their programs. Time limits for correspondence study will be imposed to ensure that these courses cause as little conflict as possible with regular classes.

LSU TEACHER EDUCATION COUNCIL

The Teacher Education Council provides governance for all teacher education programs offered within the University. It is responsible for setting and achieving teacher education goals, establishing policies, fixing responsibilities for program decision making, identifying and utilizing resources, and facilitating continuing development and improvement of basic and advanced teacher education programs.

CURRICULUM IN MUSIC EDUCATION

TOTAL SEM. HRS. • 128

All students in the BMed program shall participate in band (MUS 4250, 4251, 4252, 4253), orchestra (MUS 4261), or chorus (Music 4232, 4233, 4234, or 4236) for seven semesters. Students with an instrumental emphasis may count MUS 4253 Jazz Band for a maximum of two of the seven required ensemble hours. Large ensemble assignments are made at the discretion of the counselor and the ensemble conductors. Any request for adjustment of the rules pertaining to performance in large ensembles must be submitted to a reviewing committee.

Students wishing to be certified in more than one area (band and orchestra, band and vocal, etc.) should see their faculty advisors for certification requirements and proficiencies. Such programs normally require a minimum of five years to complete.

Piano proficiency at the level of MUS 1133 or equivalent is required.

FRESHMAN YEAR	SEM. HRS.
English 1001	3
MUED 1700 (2 semesters)	2
Music 1740 and 1741	4
Major applied music courses	4
Major ensemble courses	2
Mathematics 1021 or 1029	3
General education approved mathematics course	3
PSYC 2000	3
Area of concentration/elective	4
	<u>28</u>

SOPHOMORE YEAR	SEM. HRS.
MUED 1000, 2045	6
Music 1700 (2 semesters)	0
Music 2731 or 2733, Music 2732 or 2734	8
Major applied music courses	4
Major ensemble courses	2
English 2000	3
General education life or physical science sequence	6
Area of concentration/elective	6
	<u>35</u>

JUNIOR YEAR	SEM. HRS.
MUED 3171	3
Music 1700 (2 semesters)	0
Music 2053, 2054	6
Music 3731 or 3733, 3732 or 3734	8
Major applied music courses	4
Major ensemble courses	2

General education approved humanities course	3
PSYC 2078	3
Area of concentration/elective	8
	<u>37</u>

SENIOR YEAR	SEM. HRS.
EDCI 3136	3
MUED 3170	3
MUED 3630	9
Major ensemble course	1
General education approved humanities courses	6
General education approved social sciences course	3
General education life or physical science course (one semester lecture in alternate science)	3
	<u>28</u>

Areas of Concentration

◆ **Instrumental**

Required courses (14 hrs.)—MUS 1800 (2 hrs.); MUS 2300 (5 semesters - 7 hrs.); MUS 2400 (1 hr.); MUS 3771 (2 hrs.) and MUS 3772 (2 hrs.) Students whose primary instrument is keyboard must participate in ensembles on a wind, string, brass, or percussion instrument.

◆ **Vocal**

Required courses (14 hrs.)—MUS 1018 (1), 1019 (1), 1800 (2), 2300 (2 semesters - 4 hours), 3749 (2), 3750 (2), 3334 (1), and 3335 (1). Students may select either keyboard or voice as their applied music concentration; proficiency in both is required. Students concentrating in keyboard must complete voice class (MUS 1001, 1002) or equivalent and two semesters of private voice.

CURRICULUM IN MUSIC THERAPY

LSU has a program in music therapy coordinated with Loyola University in New Orleans. Contact the assistant dean of the LSU School of Music for information.

BACHELOR OF ARTS DEGREE REQUIREMENTS

Offered by the College of Music and Dramatic Arts since 1998-99, the Bachelor of Arts in Music degree is a viable alternative for those students who prefer a more flexible and less intensive music curriculum than is possible under the Bachelor of Music Education or Bachelor of Music curricula. The BA in Music degree could prepare students for careers in arts administration, the music business industry, for further study at the graduate level in music history or music theory, or other areas. A minor in an area other than music is required for the degree. A grade of "C" or better is required in all music courses.

CURRICULUM IN MUSIC (BA DEGREE)

TOTAL SEM. HRS. • 126

FRESHMAN YEAR	SEM. HRS.
English 1001 or 1004	3
Mathematics 1020/1021 or 1029	3
General education analytical reasoning course	3
General education humanities course	3
Music 1700 (2 semesters)	0
Music 1740, 1741	4
Major applied music courses (2,2) ¹	4
Ensemble ²	2
Music 1130, 1131	2
General education humanities course	3
Approved electives	1
	<u>28</u>

SOPHOMORE YEAR	SEM. HRS.
English 1005 or 2000	3
General education natural sciences course sequence	6
General education foreign language courses ³	8-10
Music 1700 (2 semesters)	0
Music 2731 or 2733, 2732 or 2734	8
Major applied music courses (2,2) ¹	4
Ensemble ²	2
Approved electives	1
	<u>32-34</u>

JUNIOR YEAR	SEM. HRS.
General education natural sciences course in area other than sequence	3
Music 1700 (2 semesters)	0
Music 2053, 2054	6
Music 3731 or 3733, 3732 or 3734	8
Major applied music courses (2,2) ¹	4
Minor area course ⁴	9
Approved electives	4
	<u>34</u>

SENIOR YEAR	SEM. HRS.
General education social sciences courses	6
Music 1700 (2 semesters)	0
Upper division music electives ⁵	6
Minor area courses ⁵	9
Approved electives	11-9
	<u>32-30</u>

¹ Registration in an appropriate music ensemble may be a corequisite for registering for applied music courses. The requirement for 12 hours of applied music courses may be satisfied by taking six semesters of applied music for two hours of credit or four semesters of applied music for three hours of credit.

² BA in Music with a primary emphasis in Jazz may select MUS 4253 Jazz Ensemble for all four required ensemble hours; BA in Music with primary emphasis other than Jazz may select MUS 4253 for maximum of two of the four required ensemble hours.

³ Both courses must be in the same language.

⁴ If students declare a minor with less than 18 hours credit, then the additional hours must be taken in electives.

⁵ To be selected from the following: MUS 4710, 4712, 4718, 4719, 4720, 4721, 4723, 4749.

DEPARTMENT OF THEATRE

OFFICE • 105 Music & Dramatic Arts Bldg.
TELEPHONE • 225-578-4174
FAX • 225-578-4135
WEB SITE • www.theatre.lsu.edu

On the eve of our eighty-first season, the LSU Department of Theatre continues to achieve national and international prominence in professional training, scholarship, and production. With Swine Palace, the department has distinguished itself as one of the few programs in the country that supports a full-time, year-round Equity company. While pursuing their degrees, students have the opportunity to work alongside world-class artists in every facet of production. Many students are Actors' Equity Association (AEA) eligible by the time they graduate. Our NAST-accredited BA degree programs (concentrations in acting, literature-history-theory, arts administration, design-technology, and theatre studies) provide rigorous comprehensive training within the framework of a liberal arts education. In addition to working with Swine Palace, our students support Louisiana's burgeoning film industry.

CURRICULUM IN THEATRE

TOTAL SEM. HRS. • 128

Majors in the Department of Theatre must complete a minimum of 39 semester hours of THTR 1000 (8 semesters), 1001, 1025, 2020, 2022, 2024, 2025, 2026 (three times), 2028, 3121, 3122, 3130, 4024, 4120, and 4136 (two times). In addition to the core program majors must complete 24 semester hours in their area of concentration (listed below).

Additional departmental requirements include seven to eight semester hours of an approved foreign language sequence with at least one course at an intermediate level and ENGL 2148.

**Foreign language courses must be all in one language.*

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education life and physical sciences, literature, mathematics, and social sciences requirements. Each area of concentration has specific requirements as listed below.

FRESHMAN YEAR	SEM. HRS.
English 1001 or 1004.....	3
Mathematics 1021 or 1029.....	3
Foreign language courses*.....	4-5
Theatre 1000 (2 semesters) 1001, 1025, 2022, 2026.....	10
General education natural science courses	9
Electives or area of concentration courses (entry level foreign language course, if needed).....	4-5
	33-35
SOPHOMORE YEAR	SEM. HRS.
Foreign language (through course 2001 or 2101 or 2053)*.....	3
General education analytical reasoning course.....	3
English 1005 or 2000.....	3
English 2148.....	3

Theatre 1000 (2 semesters), 2020, 2024, 2025, 2026 (2 semesters), 2028.....	12
Electives or area of concentration courses.....	8
	32

JUNIOR YEAR	SEM. HRS.
General education social sciences courses.....	6
Theatre 1000 (2 semesters), 3121, 3122, 3130, 4136 (2 semesters).....	11
Electives or area of concentration courses.....	15
	32

SENIOR YEAR	SEM. HRS.
Theatre 1000 (2 semesters) 4120 or 4121, 4024.....	6
General education arts course (<i>select from</i> architecture, art, interior design, landscape architecture, music, or philosophy).....	3
Electives or area of concentration courses.....	22
	31

Areas of Concentration**◆ Arts Administration**

Required courses (39 hrs.)—ACCT 2001, 2101, HRE 2070, FIN 3715, ISDS 1100, MGT 3200, MKT 3401, THTR 3320, 3340, 4300 (taken twice), 4320, 4350.

Note: for this arts administration area of concentration, sophomore year analytical reasoning courses must be MATH 1021 and 1431. Junior year social science course must be ECON 2000 and 2010.

After successful completion of THTR 1001 and MATH 1021 or with permission of the Theatre faculty, students may be admitted to the arts administration concentration. Successful admission will require a grade of "B" or better in THTR 1001 and MATH 1021, a written essay submitted to the program director, and an interview with the program director.

◆ Design/Technology

Required core courses (9 hrs.)—EXST 2000, THTR 3435, 3830

Theatrical Design courses (6 hrs.)—choose from: THTR 4123, 4124, 4435, 4436, 4530, 4531, 4901

Theatrical Technology courses (6 hrs.)—choose from: THTR 2023, 3123, 3134, 3530, 3531, 4820, 4831, 4902

Theatre area of concentration courses (12 hrs.)—theatre design and technology courses suited to the students' interests and aspirations chosen from the courses listed above

◆ Literature, History, and Theory

Required courses (18 hrs.)—EXST 2000, THTR 4020, 4121, 4220, 4436, 4801

Literature, history, and theory courses (18 hrs.)—choose from the courses listed below, with at least one course from each of the three areas:

Literature—ANTH 2423, CLST 3032, CMST 2040, ENGL 4148, THTR/ENGL 2008

History and Culture—AAAS 2000, ANTH 2051, ENGL 3384, HIST 4043, 4077, SOCL 3101, THTR 4131, WGS 2500

Criticism and Theory—AAAS 3092, ENGL 3024, PHIL 2023, 2024. THTR/ENGL 4008, WGS 3150

◆ Performance

Required courses (27 hrs.)—EXST 2000, THTR 1029; 1127 or 1227; 1131 or 1231; 1153 or 1253; 2027, 3025, 3027, 3029, 4025; three (3) credit hours in any 3000/4000-level THTR course

Humanities courses (6 hrs.)—Choose courses from the general education humanities course list.

◆ Theatre Studies

Required courses (3 hrs.)—EXST 2000

Approved Courses (24 hrs.)— choose theatre courses numbered 3000 and 4000

Theatre elective courses (6 hrs.)—choose six hrs. from any theatre courses

The Graduate School •

PROFESSIONAL PROGRAMS

W. DAVID CONSTANT
Interim Dean
225-578-3885
FAX • 225-578-1370

MALCOLM RICHARDSON
Associate Dean
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MARIE M. HAMILTON
Assistant Dean
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Director of Graduate Student Academic Services Center
225-578-3181
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RENÉE L. A. RENEGAR
Director of Graduate Admissions
225-578-1641
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225-578-2311
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► THE GRADUATE SCHOOL

CONCEPTS AND PURPOSE

Doctoral research programs are the essential defining feature of a university. LSU's status as one of the top 70 research universities in the nation and its classification as Research-Extensive by the Carnegie Foundation, depend chiefly on two criteria held to be prime indicators that an institution is a major center for the creation of new knowledge: Research funding, and doctoral education, both of which ensure the training of future generations of scholars. The synergy between our nationally renowned faculty and our graduate student population helps to keep Louisiana and the nation on the leading edge of discovery.

The primary purposes of the Graduate School are:

- to provide students with opportunities for advanced study and specialization,
- to instruct students in methods of independent investigation, and
- to foster the spirit of scholarship and research.

The LSU Graduate School, considered the state center of academic research and advanced studies, provides a more extended and comprehensive program than any other educational institution in the state.

The Graduate School administers more than 130 graduate degree programs offered at LSU. LSU offers doctoral programs in 54 major fields of study. These programs offer opportunities for advanced training and research in all areas of the sciences, social sciences, and humanities. Master's degree programs are offered in 76 major fields. These range from Master of Fine Arts degrees in creative writing, studio art, and theatre to professional degree programs in social work, business administration, and library and information science.

Students seeking the professional degree, Doctor of Veterinary Medicine (DVM), offered through the School of Veterinary Medicine, study and work in one of the most advanced and well-equipped schools of veterinary medicine in the United States. The School of Veterinary Medicine also offers master's and doctoral degrees through the Graduate School.

Additional information about the degree programs listed below may be found in the *Graduate Bulletin*, which may be accessed through the LSU home page, www.lsu.edu.

Additional information about specific graduate and professional programs is published in catalogs or brochures that may be obtained from the department or school at addresses listed in this catalog.

HISTORY AND ORGANIZATION

The first graduate degree recorded was a "Civil Engineering" degree awarded in 1869. By 1890, 14 master's degrees had been awarded, and by 1909, a total of 32. In 1909, the Graduate Department was established, with the general supervision of graduate work vested in a Committee on Graduate Courses. During the period from 1909 to 1931, 439 master's degrees were awarded.

In 1931, the Graduate School was established and the first graduate dean, Charles W. Pipkin, was appointed. The former Committee on Graduate Studies was reorganized into a Graduate Council. Doctoral programs were also established in 1931, and the first doctorate was awarded in 1935. From 1931 through spring 2009, 9,168 Doctor of Philosophy degrees, 524 doctorates other than Doctor of Philosophy degrees, and 47,041 master's degrees were awarded. The total number of advanced degrees awarded by LSU thus reached 56,733.

The affairs of the Graduate School are administered by the graduate dean, with the advice and consultation of the Graduate Council. The council is composed of the dean and associate dean of the Graduate School, who serve as *ex officio* members, and 16 faculty members appointed by the Chancellor for rotating terms of five years each. The council considers proposals for new degree programs, recommends membership classifications on the graduate faculty, and makes recommendations to the graduate faculty for changes in Graduate School policy.

► ADMISSION • GENERAL INFORMATION

Admission to the Graduate School is awarded on the basis of evidence of academic achievement and promise. Applications of students who meet Graduate School requirements are forwarded to the appropriate academic units for final approval. Because of their nature, certain programs require higher admission standards than those of the Graduate School.

GRADUATE AND PROFESSIONAL DEGREES		
Department	Major	Degree
Accounting	Accounting	MS, PhD
Agricultural Economics & Agribusiness	Agricultural Economics	MS, PhD
Animal Sciences, School of	Animal, Dairy & Poultry Sciences*	MS
	Animal & Dairy Sciences	PhD
Architecture, School of	Architecture	MArch
Art, School of	Art History	MA
	Studio Art	MFA
Biological Sciences	Biochemistry	MS, PhD
	Biological Sciences	MS, PhD
Biological & Agricultural Engineering	Biological and Agricultural Engineering	MS in Biol. & Ag. E.
Business Administration	Business Administration*	MBA
	Business Administration (Finance)*	PhD**
	Business Administration (Information Systems and Decision Sciences)*	PhD**
	Business Administration (Management)*	PhD**
	Business Administration (Marketing)*	PhD**
Chemical Engineering, Gordon A. and Mary Cain Department of	Chemical Engineering	MS in ChE, PhD
Chemistry	Chemistry	MS, PhD
Civil & Environmental Engineering	Civil Engineering	MS in CE, PhD
Communication Sciences & Disorders	Communication Disorders	MA, PhD
Communication Studies	Communication Studies	MA, PhD
Comparative Literature	Comparative Literature*	MA, PhD
Computer Science	Systems Science*	MS in Sy. Sc.
	Computer Science	PhD
Construction Management & Industrial Engineering	Industrial Engineering	MS in IE
	Curriculum and Instruction	MEd, PhD
	Education	MA, EdS
	Educational Leadership	MEd
	Educational Leadership and Research	PhD
	Educational Technology	MEd
	Elementary Education Grades 1-5	MAT
	Gifted Education	MEd
	Guidance	MEd
	Secondary Education Grades 6-12	MAT
	Special Education	MEd

GRADUATE AND PROFESSIONAL DEGREES		
Department	Major	Degree
Economics	Economics	MS, PhD
Electrical & Computer Engineering	Electrical Engineering	MS in EE, PhD
Engineering	Engineering Science*	MS in ES, PhD
English	English	MA, PhD
	Creative Writing	MFA
Entomology	Entomology	MS, PhD
Environmental Sciences	Environmental Sciences	MS
Experimental Statistics	Applied Statistics	MApStat
Finance	Finance	MS
Food Science	Food Science	MS, PhD
Foreign Languages & Literatures	Hispanic Studies	MA
French Studies	French	MA, PhD
Geography & Anthropology	Anthropology	MA
	Geography	MA, MS, PhD
Geology & Geophysics	Geology	MS, PhD
History	History	MA, PhD
Human Ecology, School of	Human Ecology	MS, PhD
Human Resource Education & Workforce Development, School of	Human Resource Education	MS, PhD
Information Systems & Decision Sciences	Information Systems & Decision Sciences	MS
Kinesiology	Kinesiology	MS, PhD
Landscape Architecture, School of	Landscape Architecture	MLA
Liberal Arts	Liberal Arts*	MALA
Library & Information Science	Library and Information Science	MLIS
Mass Communication, Manship School of	Mass Communication	MMC
	Mass Communication & Public Affairs	PhD
Mathematics	Mathematics	MS, PhD
Mechanical Engineering	Mechanical Engineering	MS in ME, PhD

GRADUATE AND PROFESSIONAL DEGREES		
Department	Major	Degree
Music, School of	Music	MM, DMA, PhD
Natural Sciences	Natural Sciences*	MNS
Oceanography & Coastal Sciences	Oceanography and Coastal Sciences	MS, PhD
Petroleum Engineering, Craft & Hawkins Department of	Petroleum Engineering	MS in PETE, PhD
Philosophy & Religious Studies	Philosophy	MA
Physics & Astronomy	Medical Physics and Health Physics	MS
	Physics	MS, PhD
Plant Pathology & Crop Physiology	Plant Health	MS, PhD
Plant, Environmental, and Soil Sciences, School of	Agronomy	MS, PhD
Political Science	Political Science	MA, PhD
Psychology	Psychology	MA, PhD
Public Administration Institute	Public Administration*	MPA
Renewable Natural Resources, School of	Forestry	MS, PhD
	Wildlife	MS
Social Work, School of	Social Work	MSW, PhD
Sociology	Sociology	MA, PhD
Theatre	Theatre	MFA, PhD
Veterinary Medicine	Veterinary Medical Sciences*	MS, PhD
	Veterinary Medicine	DVM

Interdepartmental programs are indicated by one asterisk (). The PhD in business administration is available with areas of specialization in finance, management, marketing, and information systems and decision sciences (**). The MA, MEd, and EdS in education are single degrees shared by two departments, Educational Leadership, Research, & Counseling and Educational Theory, Policy & Practice (***)*

Because of the high demand for many graduate programs, meeting the minimum requirements of the Graduate School does not guarantee admission into a particular program.

Applicants meeting requirements stated below are normally granted *regular* admission. Applicants failing to meet all requirements may be granted *probationary* admission, provided other substantial evidence of capacity to do satisfactory graduate work, including outstanding performance in post-baccalaureate and/or graduate work, high Graduate Record Examination (GRE) scores (Graduate Management Admission Test—GMAT—scores, where appropriate), and other outstanding achievements, is presented.

Applicants with unsatisfactory undergraduate records who have completed a minimum of nine hours of graded graduate course work with at least a 3.33 graduate grade point average (gpa) ("A"=4.00) in graduate course work and who have acceptable GRE scores (or, GMAT where applicable) may be considered for admission.

Applicants who appear admissible on the basis of unofficial and/or incomplete transcripts of previous work or unofficial test scores, but who are unable to supply the required records

prior to registration, may be granted *provisional* admission. Subsequent enrollment will not be permitted until all provisions are met. Provisional admission does not guarantee subsequent regular admission.

Meeting the *minimum* requirements, as outlined in the following sections, does not necessarily ensure acceptance into a specific program, since departments may establish higher standards or require special admission requirements and conditions.

Admission to a Degree Program

Regular Admission • Regular admission is awarded to applicants who intend to pursue a degree and who meet the following requirements:

- a bachelor's degree from an accredited U.S. institution or the equivalent from a foreign institution;
- a gpa of at least 3.00 ("A"=4.00) on all undergraduate work (or at least half-degree requirement) and a 3.00 gpa or better on any graduate work already completed; International applicants must have at least a 3.00 gpa, or equivalent, on all college-level work previously attempted;

- acceptable scores on the Graduate Record Examination or GRE (in some cases, a high GRE may be used to compensate for a low gpa); in place of the GRE, an acceptable score on the Graduate Management Admission Test (GMAT) is required for graduate programs in the E. J. Ourso College of Business, except for the MPA, and the MS and PhD in economics; and
- acceptance by the graduate faculty in the applicant's area of study. Applicants who are narrowly trained or who have taken a significant amount of work on a pass-fail basis or in ungraded courses may be required to submit scores on GRE Subject (Advanced) Tests before their applications can be considered. Consult individual departments for additional admission requirements.

Probationary Admission • Applicants who fail to meet one or more of the requirements for regular admission may be admitted on probation, provided additional evidence of capacity to do satisfactory work is presented. Such evidence might include superior performance in a substantial amount of post-baccalaureate work, high GRE scores (GMAT scores, when appropriate), and other achievements.

Students entering on probation will remain on probation until the completion of nine hours of graduate-level, graded courses (“A,” “B,” and “C” only) with at least a 3.00 average. Part-time students entering on probation and registering for fewer than nine hours may be dropped from the Graduate School if their semester and/or graduate gpa is less than 3.00 during any semester they are registered.

Provisional Admission • Provisional admission may be considered for applicants who appear to be admissible on the basis of the credentials submitted, but who are unable to supply all of the required official records prior to registration. Students admitted provisionally must submit complete and satisfactory records within 30 days (15 days in summer term) after the first day of classes. If these credentials are not received by the date specified or if they prove to be unsatisfactory, the student will not be permitted to register for the following semester. Provisional admission does not guarantee subsequent regular admission.

Admission of International Students

An applicant who has completed degree requirements outside the U.S. must present:

- a complete and accurate chronological outline of all previous college-level education;
- authorized school or university records—transcripts, marksheets, certificates of degrees—showing all courses taken and all grades received, with certified translations if the records are in a language other than English;
- a bachelor's degree or its equivalent, with a gpa equivalent to a “B” or better (3.00 out of a possible 4.00) on all previous undergraduate work (or at least half-degree requirement) from an accredited college or university;
- certification of the availability of sufficient funds to meet all costs while studying at LSU (if an assistantship stipend covering all required expenses is not offered) before the letter of admission and Form I-20 will be mailed;
- GRE Test scores (GMAT where appropriate); and
- a satisfactory score on a test of English proficiency. Either the TOEFL (Test of English as a Foreign Language) or the IELTS (International English Language Testing Service) score may be submitted. On the TOEFL, a minimum score of 550 (paper based), 213 (computer based), or 79 (Internet-based) is required for admission. On the IELTS, a minimum score of 6.5 is required for admission. Official TOEFL/IELTS scores are those reported directly to LSU by the respective testing service at the request of the student. [Applicants from Canada, Australia, New Zealand, Ireland, certain Caribbean islands, Belize, and the United Kingdom and international students who have received a degree from an accredited institution in the U.S., Canada, Australia, New Zealand, certain Caribbean islands, or the United Kingdom are exempt from taking the TOEFL or IELTS. Official transcripts are required showing completion of the degree before a student can be exempted from the TOEFL/ IELTS requirement.]

A TOEFL score of at least 550 (paper based), 213 (computer based), or 79 (Internet

based) or an IELTS score of 6.5 must be received before a student's application is evaluated for admission. Application forms and information about the TOEFL may be obtained from American embassies and consulates, offices of the U.S. Information Service, or Educational Testing Service, P.O. Box 6000, Princeton, New Jersey, USA 08541-6000 or online at www.toefl.org. Information about IELTS may be found at www.ielts.org.

Application deadlines for international applicants are the same as for all other applicants; however, because transcripts from foreign universities require special evaluation, prospective international students should begin the application process at least nine to twelve months prior to the semester in which they plan to enroll. Applications from international students received after the deadline dates will be processed for the subsequent semester. Also, when sufficient scholastic records and acceptable evidence of English proficiency are not received early enough to determine admissibility for the semester for which application is made, consideration for a subsequent semester will be made only upon the applicant's written request.

Upon arrival on campus and before registration, international applicants (except citizens of Canada, Australia, New Zealand, Ireland, or the United Kingdom, certain Caribbean islands, and Belize) who have been admitted to Graduate School must take the LSU Comprehensive English Language Test, which consists of the Michigan Test and a writing sample. Students whose tests indicate a deficiency in English will be required to register for appropriate English composition courses with a reduced load of graduate courses.

All international graduate students awarded graduate assistantships must demonstrate proficiency in English by examination or enroll in a Spoken American English course during the first semester of the assistantship. The course will result in a recommendation (or nonrecommendation) to assume teaching duties. Any international teaching assistant who has not received a recommendation from this speech course may not teach in any capacity.

An international applicant who has completed an undergraduate degree at an accredited U.S. institution must meet the regular admission requirements. Before the applicant can be considered, the Graduate School must receive a satisfactory GRE or GMAT score. An international applicant will not be admitted until this information has been received.

APPLICATION PROCEDURES

An “Application for Admission to Graduate Degree Program” packet may be obtained from the Graduate School, from the graduate department to which application is being made, or downloaded from the Graduate School Web site at www.gradschool.lsu.edu. Applicants can also apply online at www.lsu.edu/gradapply. All applications for graduate admission must be accompanied by a *nonrefundable \$50 application fee* for U.S. citizens and permanent residents or \$70 for all other applicants (check or money order made

payable to LSU). Do not send cash through the mail. Checks or money orders must be drawn on U.S. banks. A *late fee* of \$25 must be paid if the application is postmarked after the following dates: *May 1 for intersession, May 15 for the fall semester, October 15 for the spring semester, and May 15 for the summer term*. International applications received after the deadline will be processed for the following semester and no late fee will be assessed.

Fall applications must be received before the January 25 priority date in order to receive full consideration for assistantships, fellowships, or scholarships for which the applicant has applied. International applicants are encouraged to determine course availability before applying for summer entry and are further encouraged to apply at least 9 to 12 months in advance of their intended semester of entrance.

Applicants for graduate admission should proceed as follows:

I. Applicants are responsible for submitting the following items to the Graduate School, 114 David Boyd Hall, LSU, Baton Rouge, Louisiana 70803:

- The completed *Application for Admission to Graduate Degree Program*
- The required application fee and any applicable late fee
- One set of *official* transcripts of all previous college or university work **from each institution attended**. (An official transcript bears the official seal of the issuing school. Photocopies, facsimiles, or transcripts marked “issued to student” are not official.) Transfer credit posted on the records of other institutions is not accepted in lieu of transcripts from the original institution(s). If the college or university will supply an official transcript **in a sealed and signed envelope**, the student should obtain the transcript in that manner and submit it unopened. If the college or university will not send official transcripts to a student, please request that a transcript be sent to the Graduate School at the address above. Transcripts from LSU-BR need not be submitted. **International applicants:** Include degree statements and an official English translation of each foreign document
- Financial statement (international students only)

II. The following materials must be submitted to the department the student wishes to enter. Please send them to Graduate Advisor, Department of [NAME], Louisiana State University, Baton Rouge, LA 70803.

- One set of *official* transcripts of all previous college or university work **from each institution attended**. Transfer credit posted on the records of other institutions is not accepted in lieu of transcripts from the original institution(s). If the college or university will supply an official transcript **in a sealed and signed envelope**, a student is to obtain the transcript in that manner and submit it unopened. If the college or university will not send official transcripts to a student, please request that a transcript be sent to the Graduate Advisor at the address above. Transcripts from LSU-BR

need not be submitted. **International applicants:** Include degree statements and an official English translation of each foreign document

- Three letters of recommendation: some departments may accept electronically submitted letters

III. The following is also to be sent to the Graduate School, 114 David Boyd Hall:

- A satisfactory score is required on the verbal and quantitative portion of the Graduate Record Examination (GRE). LSU's code for GRE reporting is R6373-5. Test information may be obtained from the Graduate School at LSU, graduate schools at most colleges and universities, or by writing to Educational Testing Service, P.O. Box 6000, Princeton, NJ 08541. Allow at least six weeks for the examination results to reach LSU. Applicants to the Master of Fine Arts programs (studio art and theatre), Master of Music, and programs in business administration are not required to submit GRE scores. Applicants for the Master of Fine Arts in creative writing are required to submit GRE scores.
- The Graduate Management Admission Test (GMAT) is required of applicants for all degrees in the E. J. Ourso College of Business except for the MS and PhD with a major in economics. The Department of Information Systems & Decision Sciences and the MPA Program will accept either the GRE or GMAT score. Application procedures for the GMAT are the same as described above. This examination may also be taken at LSU; the code for GMAT score reporting is also R6373-5.

IV. Applicants may be responsible for submitting additional materials to the departments to which they are applying. Most departments have specific departmental admission requirements. For specifics, consult the individual departments.

Admission is for the semester requested. Those admitted who do not register must make a written request to be reconsidered for admission for a subsequent semester. Application updates are accepted for two subsequent semesters from the original application semester (summer term included). A new application for admission is required when the original application has been on file more than three concurrent semesters. The Graduate School *will not* consider for admission any nonimmigrant who has entered the U.S. on an I-20 issued by another institution until that person has been enrolled for at least one semester at the institution issuing the I-20.

NONDEGREE ADMISSION

A student who holds a baccalaureate degree but who does not desire to enroll in a degree program in the Graduate School may enroll as a graduate *nonmatriculating student*. Course work is taken for academic credit, and all rules and regulations for graduate students apply. A student in this category must register for at least one course numbered 4000 or above each semester to maintain graduate status. Courses numbered below 4000 may be taken concurrently with graduate course work.

Enrollment in courses numbered 6000 and above is limited to a total of six semester hours

for graduate students in this classification. However, an unlimited number of courses numbered 5999 and below may be taken.

No more than 12 hours of graduate credit taken as a nonmatriculating student may be applied to the requirement for a master's degree. No more than 12 hours of combined credit transferred from other schools and earned as an LSU extension or nonmatriculating student may be applied toward a master's degree at LSU. (See the section titled Transfer of Credit.)

Students wishing to enroll *only in courses numbered below 4000* should apply for undergraduate admission through the Office of Undergraduate Admissions, 110 Thomas Boyd Hall. *Students classified as extension students are ineligible to enroll in on-campus courses.*

Applications for graduate nondegree admission may be obtained from the Graduate School or on the Graduate School Web site at www.gradschool.lsu.edu. Applicants can also apply online at www.lsu.edu/gradapply. Students applying for graduate nondegree admission must submit one official transcript from the highest degree-granting institution where graduate credit was earned or attempted. Transcripts must indicate that the applicant has a 2.50 or better gpa on all undergraduate work completed and a 3.00 or better gpa on all graduate work completed. In addition, international students must submit a satisfactory score on a test of English proficiency. Either the TOEFL (Test of English as a Foreign Language) or the IELTS (International English Language Testing Service) score may be submitted. On the TOEFL, a minimum score of 550 (paper based), 213 (computer based), or 79 (Internet-based) is required for admission. On the IELTS, a minimum score of 6.5 is required for admission. Official TOEFL/IELTS scores are those reported directly to LSU by the respective testing service at the request of the student. [Applicants from Canada, Australia, New Zealand, Ireland, certain Caribbean islands, Belize, and the United Kingdom and international students who have received a degree from an accredited institution in the U.S., Canada, Australia, New Zealand, certain Caribbean islands, or the United Kingdom are exempt from taking the TOEFL or IELTS. Official transcripts are required showing completion of the degree before a student can be exempted from the TOEFL/IELTS requirement.]

A nonrefundable, nontransferable application fee of \$50 for U.S. citizens and permanent residents and \$70 for all other applicants must be submitted with the application.

Students not regularly admitted to the University may attend classes as auditors, provided they meet all previously mentioned requirements for admission, have written permission from the individual course instructor(s), and have made the necessary arrangements and paid the required fees. Prospective auditors should initiate registration by obtaining an "audit only" form from the Office of the University Registrar.

Regularly enrolled graduate students may also audit courses with consent of the individual instructors. Auditors will not receive degree credit and will not be permitted to take a credit examination on audited course work. However, previously audited courses may be taken for credit. Audited courses do not count in total course loads and are not recorded on official

transcripts.

READMISSION

Readmission to Original Program

Previously enrolled graduate students who fail to enroll for three or more consecutive semesters (summer terms included) must file an "Application for Readmission" form with the Graduate School. Applications for reentry will be subject to reevaluation under current admission criteria; readmission is not guaranteed.

Official transcripts must be submitted if work has been taken at another institution since the student was last enrolled at LSU. The application deadlines for admission also apply for readmission, as do application fees and any applicable late fees.

Readmission with a Change of Program

A student wishing to pursue a degree or program other than the one originally sought and who has not enrolled for three or more semesters (summer term included), must complete application procedures as described above, and comply with the requirements for the new program. Acceptance into one program does not guarantee admission into another. The admission decision ultimately rests with the admission committee of the department or interdepartmental program concerned.

APPLICATION FEE DEADLINES			
	Fee	Fee Deadline	Fee if Paid After Deadline
<i>Fall Semester</i>			
U.S. Citizens and Permanent Residents	\$50	5/15	\$75
Nonimmigrant Applicants	\$70	5/15	0*
Nondegree Applicants	\$50	N/A	N/A
<i>Spring Semester</i>			
U.S. Citizens and Permanent Residents	\$50	10/15	\$75
Nonimmigrant Applicants	\$70	10/15	0*
Nondegree Applicants	\$50	N/A	N/A
<i>Summer Term</i>			
U.S. Citizens and Permanent Residents	\$50	5/15	\$75
Nonimmigrant Applicants	\$70	5/15	0*
Nondegree Applicants	\$50	N/A	N/A

* International applications received after the deadline will be processed automatically for the subsequent semester. There are no late fees associated with the January 25 priority date for full consideration for assistantships and fellowships.

FEES • FINANCIAL AID

The Board of Supervisors may modify fees, meal rates, or housing rates at any time and without advance warning. Students should check the Office of Budget and Planning's Web site www.bgtplan.lsu.edu.

The following discussion of fees, required minimum registration, and related matters covers items that apply only to graduate students or for which graduate students and undergraduates are treated differently. For all other fees (vehicle registration, audit fees, student insurance, and the Student Health Center, etc.) see the section, "Tuition and Required Fees."

GRADUATE FEES

Application Fees

All applications for graduate admission must be accompanied by a *nonrefundable* application fee (check or money order made payable to Louisiana State University). Additional nonrefundable late fees, where applicable, are assessed for all applications received by the Graduate School after application deadlines. The late application fee also applies to applications for readmission submitted after the established deadline dates. Bank drafts are not accepted as payment and the University is not responsible for cash sent by mail.

International applicants should consult the section, "Admission of International Students," for additional information.

Minimum Graduate Student Registration

Graduate students engaged in the writing of theses or dissertations are expected to register for research hours commensurate with the amount of University resources—faculty time, equipment, library facilities, and/or office space—to be used that semester. Out-of-town students also are expected to register for research hours if they are receiving any faculty advice or direction.

In addition, doctoral candidates must maintain continuous registration for a minimum of three semester hours of credit each regular semester (excluding summers) from the completion of the general examination to the end of the semester in which an approved dissertation is submitted to the Graduate School. Students must be registered for a minimum of one to three semester hours of credit during any semester in which they are taking master's or doctoral general examinations, including the qualifying examinations required by some departments.

Degree Only Registration

Students who have completed all degree requirements, including final examinations taken in a previous semester, may register for "degree only" and pay only the graduation fee, if their theses or dissertations are approved by the Graduate School on or before the last day to add courses for credit. Eligible students must submit an application for degree and inform the Graduate School of their intent to register for "degree only." Nonthesis students may also register "degree only" provided all degree requirements were met in a previous semester.

Three-Week Short Courses

See note section at bottom of Summer Student Required Fees Schedule on the Office of Budget & Planning Web site at www.bgtplan.lsu.edu/fees.htm.

Audit Fees

Fees for auditing courses are in accordance with the following "Regular Semester" and "Summer Term" fees. Maximum fee is \$1,508 for the regular semester and \$1,216 for the summer term. Fees for students enrolling for combined credit and audit work will be assessed in accordance with total hours scheduled.

Residency Status

Eligibility for classification as a resident of Louisiana is determined by the Graduate School in accordance with University regulations and is based on evidence provided on the application for admission and related documents. Regulations relate primarily to location of the home and place of employment.

A student classified as a resident is one who has abandoned all prior domiciles and has been domiciled in the state of Louisiana continuously for at least one full year (365 days) immediately preceding the first day of classes of the term for which classification as a resident is sought. Physical presence within the state solely for educational purposes without substantial evidence of the intent to remain in Louisiana will not be sufficient for resident classification regardless of the length of time within the state.

Graduation Fees

- *Master's degree fee*, \$35; processing fee, \$20
- *Doctoral degree fee*, \$55; processing fee, \$35
- *Doctor of Veterinary Medicine degree fee*, \$40
- *Duplicate diploma fee*, \$20 (charged if a diploma is ordered and student does not graduate at that commencement)
- *Replacement diploma fee*, \$30

Special Research Fees

For specially planned research programs arranged through the Office of International Programs, departmental research fees are applicable and vary with the individual program.

Tuition and Required Fees

Graduate and Veterinary Medicine students please refer to the Office of Budget & Planning Web site at www.bgtpplan.lsu.edu/fees.htm for the listing of current fees.

MBA Professional Program Fee • Please refer to the note section at bottom of Semester Fees Schedule on the Office of Budget & Planning Web site at www.bgtpplan.lsu.edu/fees.htm.

Social Work Students • An internship fee of \$100 per course must be paid by all students enrolled in Social Work 7007, 7008, 7502, and 7503.

Students in Veterinary Medicine • A microscope fee of \$40 per semester is assessed each student during Years I and II of the professional curriculum. No fees are assessed regularly admitted students in the summer of Year IV, regardless of the elective blocks taken. Regularly admitted students accepted from contract states pay the same fees as residents of Louisiana, with respective states paying an additional increment as specified by contract.

For information about room rent, dining plans, refunds, and other special fees, see the "Undergraduate Fees and Expenses" section of this catalog.

FINANCIAL AID

The University offers financial assistance to graduate students through a variety of programs including fellowships, assistantships, internships, work-study programs, student jobs, and loans. Since these programs are administered by separate offices, a student interested in applying should contact the appropriate office for more detailed information.

Fellowships and Scholarships

The Graduate School offers a number of fellowships and scholarships to exceptional students. Superior students can expect to receive some type of aid throughout their graduate careers. In some cases, recipients are required to have completed a minimum amount of graduate work prior to receiving an

award. All such assistance is awarded on the basis of the individual's academic achievements. Interested students should contact the chair of the department in which they plan to study.

Graduate Enhancements and Supplements • Superior graduate students awarded departmental assistantships and fellowships in selected departments may receive a monetary enhancement to their departmental assistantships/fellowships.

Graduate School Dissertation Fellowships • Dissertation Fellowships are available to exceptional doctoral students who will begin their final year of study. A maximum one-year stipend of \$18,000 is awarded. Resident tuition and nonresident tuition (if applicable) are waived. The recipient will be responsible for paying required university fees. Applicants must be able to demonstrate that there is a high probability for completion of the dissertation during the fellowship year. Dissertation fellowships are available only to full-time students. For information on application procedures, which entail departmental nomination from March 15-April 15, contact the assistant dean, LSU Graduate School.

Board of Regents Graduate Fellowship Program (PhD And MFA) • The Louisiana Educational Quality Support Fund provides Board of Regents' Graduate Fellowships for exceptionally qualified doctoral students. These awards range from \$12,000 to \$20,000 per year for up to four years. Resident and non-resident tuition (if applicable) are waived. Recipients are responsible for paying university required fees. Academic departments eligible for these awards vary from year to year. Most major areas, including humanities, social sciences, basic sciences, arts, design, education, agriculture, and engineering, are included annually.

Applications must be submitted to the candidate's department and must include scores on both the verbal and quantitative portions of the Graduate Record Examination (or GMAT scores if appropriate), an official transcript of all GPAs on all college work, a one-page narrative of educational goals, and three letters of recommendation. Complete applications should be submitted no later than February 15 annually.

Graduate School Tuition Awards • The graduate dean may award up to 200 tuition exemptions to graduate students from under-represented groups. The tuition awards provide for an exemption from either or both the resident and nonresident fee. Recipients are responsible for paying university-required fees. Preference will be given to African American students and students from Latin American countries. Students must be regularly admitted to a graduate program at LSU and be nominated by their departments.

Assistantships

More than 2,000 teaching, research, and service assistantships are awarded annually. All communication regarding graduate assistantships should be directed to the chair of the appropriate department. Applications and supporting credentials are accepted at all times, but priority for graduate assistantships beginning in the fall semester is given to applicants who submit their materials by

January 25. Students who accept assistantships before **April 15** may be free to resign to accept another offer up to that date. An acceptance given or left in force after **April 15** is a commitment not to accept another appointment without first obtaining formal release from the prior commitment.

A graduate assistantship is intended to be supportive of the student's educational experience by being related to the graduate program in which the student is enrolled. Proposed appointment to duties unrelated to the student's major program must have the concurrence of the student's major department prior to approval by the Graduate School.

Eligibility Requirements • Only graduate students with acceptable academic records may be appointed to graduate assistantships. A student *admitted on probation* may not be appointed to a graduate assistantship until good standing has been achieved. A graduate student *placed on academic probation* by the Graduate School for failing to make satisfactory progress may not be appointed or reappointed to a graduate assistantship unless the student's cumulative/semester gpa is at least 3.00.

Details and additional information regarding eligibility for a graduate assistantship may be found in PS-21, available in the appendices of the *Graduate Bulletin*, and online at www.lsu.edu.

Stipends • Graduate assistant stipend levels vary widely, depending on the department and the assigned duties. Assigned duties may include research, teaching, and/or service. Graduate assistantship appointments may also be for one-third or one-quarter time, with an appropriate adjustment in the stipend. Appointments for more than one-half time require special justification. Although most appointments are made on an academic-year basis, assistantships are available in certain departments during the summer months, with an appropriate adjustment in the stipend.

Federal Work-Study Program

Another form of financial assistance available to graduate students is the federal work-study program. A graduate student who qualifies for this program can be assigned part-time employment in an academic area or in any other University office. The amount of aid available is determined by assessment of the student's needs. Students may also be assigned to community service agencies.

To be considered for the work-study program, a current or prospective graduate student must file the "Free Application for Federal Student Aid (FAFSA)." This form should be completed and filed as soon after **January 1** as possible. It is to the student's advantage to apply early. Aid is awarded on a yearly basis, and students must reapply each year. Application forms are available from the Office of Student Aid & Scholarships.

Loan Programs

The Office of Student Aid and Scholarships administers a number of loan programs created to help deserving graduate students who need financial assistance to continue their education. All such funds are subject to policies and regulations authorized by the Faculty Senate Student Aid &

Scholarships Committee. To be eligible, a student must be making satisfactory academic progress.

Perkins Loan (Formerly the National Direct Student Loan Program) • The Perkins Loan Program is for students who are enrolled at least half-time and who need loans to meet educational expenses. Perkins Loans are made by and repaid to LSU. Under this program graduate students may borrow up to \$30,000 to finance graduate study. (This includes any Perkins Loans borrowed as an undergraduate.) Loans range from \$200 to \$4,000 per year for graduate students. The actual amount of the loan depends upon financial need and the general availability of funds.

Half of the annual amount awarded will be received each semester. Six months after the student leaves school (nine months for new borrowers), interest begins to accrue on the total amount of money borrowed. Seven months after the student leaves school (10 months for new borrowers), he/she must begin repaying the loan. Payments are made in monthly installments of at least \$30 (regardless of the size of the loan) at 5 percent simple interest.

Stafford Loan (Formerly the National Direct Student Loan Program) • The Stafford

Loan Program allows students to borrow funds from a participating lender to begin or continue their postsecondary education. The loan is a transaction involving the student, the lending institution, and the guarantee agency. Some lenders may require additional endorsements. With the privilege of borrowing goes the responsibility for repayment of the loan with interest when the student leaves school. The annual interest rate varies, but is capped at about 9 percent.

In addition, the borrower is charged a guarantee fee, and a 5 percent origination fee is assessed by the lender for each loan processed. When the student leaves school, arrangements are made with the lender to repay the loan in monthly installments with interest. Normally, loans are repaid within a maximum of 10 years, beginning six months after leaving school, with minimum monthly payments of \$50. Repayment of the loan may be accelerated without penalty.

The maximum amount that can be borrowed is \$8,500 per year for graduate and professional study. The aggregate loan maximum is \$65,500. This total includes amounts that may have been borrowed at the undergraduate level. The loan amount will be

based on the student's income, student's educational costs, any other aid received, and the financial situation of the family. In addition, the student must be making satisfactory academic progress in order to be eligible.

The University normally views any student who is not on academic probation and who meets the requirements for retention in a degree program under the scholastic regulations of the University as being in **good standing** and making satisfactory academic progress.

Veterans' Benefits

The Office of Veterans' Affairs is responsible for handling all applications for benefits under the various public laws. To receive full VA benefits, a veteran graduate student must be registered for nine or more semester hours.

Details and additional information concerning benefits for veterans may be obtained from the Office of Veterans' Affairs, 112 Thomas Boyd Hall. Information is also available at the Veterans' Affairs Web site: www.lsu.edu/slas/vetaffairs.

► GENERAL GRADUATE SCHOOL REGULATIONS

The following discussion of general Graduate School regulations should be read in conjunction with the section, "Requirements for Advanced Degrees." Regulations common to graduate and undergraduate students (the *Code of Student Conduct*, grade appeals, etc.) are covered in the section, "Undergraduate Degree Requirements and Regulations."

Graduate School requirements are minimal and, in many cases, they are exceeded by those of individual departments. Statements of specific departmental requirements for degrees are published in the *Graduate Bulletin*. Most departments also have brochures describing in detail their programs and requirements.

STUDENT RESPONSIBILITY AND PROGRAM CHANGE

Graduate students must assume full responsibility for knowledge of Graduate School policies and departmental requirements concerning their individual degree programs. Advances in knowledge and changes in methodology at times require alterations in degree programs. Therefore, graduate students should at all times be aware of the *current* regulations and requirements of the Graduate School and their departments.

The *current* regulations and requirements take precedence over any previously promulgated policies. Between catalog issues, notices of changes will be available in the Graduate School, in each department, and at www.gradschool.lsu.edu.

GRADUATE CREDIT

A student may receive graduate credit only for courses taught by members of the graduate faculty or other persons approved in advance by the dean of the Graduate School. Except as noted, a student may receive graduate credit only for work taken while officially enrolled as a graduate student.

Any student dropped from a graduate program because of unsatisfactory performance will not be permitted to take courses for credit toward a graduate degree beyond the semester in which the student is dropped. In addition, graduate students may not take credit examinations in graduate-level courses.

Graduate Credit in Law

Students registered in Graduate School may receive graduate credit for certain courses offered by the Hebert Law Center if the courses have been approved in advance by the Law Center and the dean of the Graduate School. Students should submit a written petition to the Graduate School for such approval. Permission from the Hebert Law Center must also be obtained in order to register for graduate courses.

JD-MBA Joint Degree Program

The E. J. Ourso College of Business and the Paul M. Hebert Law Center offer a joint degree program, allowing the student to earn both the JD and MBA degrees. Students enrolling in the joint program must be admitted separately to the MBA program and the Law Center. Students should consult with the admissions office of each institution prior to enrolling concerning the student's intent to earn a joint degree.

The first year of the program must be spent exclusively either at the Law School or the Ourso College of Business. Scheduling of subsequent semesters is flexible.

The Ourso College of Business will waive the 18-hour concentration requirement, essentially giving a concentration in law. The Law School will award 12 hours of credit for classes taken in the MBA program. The transfer of credits will allow a student to complete the joint JD-MBA program in four years. Without the transfer of credits, completion of the two degrees would take a minimum of five years.

A student successfully completing the program will receive two degrees, a JD awarded by LSU's Hebert Law Center and a MBA awarded by the E. J. Ourso College of Business.

Transfer of Credit

- *Hours transferred may not exceed one-half of the total semester hours of graduate course work (thesis hours excepted) required for the student's degree program. A maximum of 12 hours may be transferred in a master's program requiring 24 hours of course work.*
 - A maximum of 12 semester hours of *credit earned as a LSU extension or nonmatriculating student* may, in some cases, be used in a master's degree program, if approved by the department chair and the dean of the Graduate School. This includes a maximum of six hours at the 6000 level and above for LSU extension or nonmatriculating credit.
 - A maximum of 12 hours of *transfer credit from other schools* may, in some cases, be used in a master's degree program, if approved by the department chair and the dean of the Graduate School. Only six hours applied toward a previous master's degree may be applied toward a second master's degree (see section Second Master's Degree).
- To petition for acceptance of these credits, the student must be currently enrolled, must have completed at least nine hours of graduate residence course work in a degree program at LSU, and must be in "good academic standing."

Transfer credit from other schools must have been earned for *graduate residence credit*. This course work must be judged appropriate to the student's program by the graduate faculty of the major department, must have been taught by a professor whose credentials are comparable to those of graduate faculty at LSU, and must, in terms of time invested, be comparable to graduate courses at LSU.

Transfer work may not be used to fulfill the master's program requirement that at least one-half of the minimum required credit be in courses at or above the 7000 level.

Course work completed at institutions outside the United States is not accepted for transfer credit toward a master's degree at LSU.

No more than 12 hours of combined credit transferred from other schools and earned as an LSU extension or nonmatriculating student may be applied toward a master's degree at LSU. Credit earned as an LSU extension or nonmatriculating student or transferred from another institution must be for course work in which the student earned a grade of "A" or "B." Courses in which a grade of "C" was earned will not be accepted for transfer into a master's degree program.

Transfer work must have been completed within five years of the time the student is eligible to petition. Once transfer credit is approved, it is valid as long as the master's degree is completed within the five-year time limit or the transfer work was taken within five years of degree completion.

Graduate work transferred from other institutions may be applied toward degree requirements, but the grades earned will not be computed in the LSU graduate average nor will transfer work appear on the official transcript.

Graduate course work *taken at other campuses within the LSU System* is not considered transfer credit, and any number of hours may be applied toward a degree if approved by the chair of the student's department on this campus.

Graduate Credit for LSU Seniors

A senior at LSU who needs fewer than 15 semester hours to complete requirements for the bachelor's degree, who has maintained a gpa of at least a 3.00 during the preceding year at LSU, and who has a cumulative gpa of at least 2.75 may be permitted to register for graduate credit in courses numbered 4000-4999, provided the student registers for all the remaining courses required for graduation and for no more than 15 semester hours total. This privilege applies only during the final semester of the student's undergraduate work and is extended only upon recommendation of the dean of the student's college and approval of the dean of the Graduate School. The chair of the department in which the student plans to enroll as a graduate student must also approve the courses taken for graduate credit.

A student must complete all undergraduate degree credit courses in order to retain the privilege of obtaining graduate credit for the remaining courses. The requested signatures of approval should be submitted on a form designed specifically for this program. This form must be submitted to the Graduate School by the last day to add classes in the semester in which graduate credit is desired.

Superior Undergraduate Student Program

Superior undergraduate students may register for 4000- and 7000-level courses; these courses do not count for graduate credit. Requirements for undergraduate enrollment in these graduate courses are as follows:

4000-Level Courses • Student must have earned at least 30 semester hours with a cumulative gpa of 3.50 or higher.

7000-Level Courses • Student must have earned at least 75 semester hours with a cumulative gpa of 3.50 or higher.

Approval by the instructor and the dean of the student's undergraduate college is required.

Correspondence Study

No graduate credit is allowed for work done by correspondence study at this or any other university.

ELIGIBILITY OF FACULTY AND STAFF FOR GRADUATE DEGREES

LSU System regulations govern the eligibility of LSU employees to work toward graduate degrees. A faculty member above the rank of instructor may not work toward a graduate degree at this University. Other employees who, in the opinion of the Graduate Council, are of equivalent status may not work toward graduate degrees. Nonfaculty, professional staff/administrators may pursue master's degrees; only those who do not hold positions where there is a potential conflict of interest will be permitted to pursue doctoral degrees.

If an employee serving as a professional staff member/administrator wishes to pursue a doctorate, the employee, the immediate supervisor of the employee, and the chair of the department in which the employee wishes to pursue the degree must submit to the dean of the Graduate School statements outlining the job responsibilities of the employee and providing an analysis of the independence of the employee's official duties from the department in which doctoral work is to be taken. The Graduate Council will review the statements and make a recommendation through official channels to the chancellor.

GRADES

Graduate Grading System

Grades in the Graduate School have the following meanings:

- **Marks Carrying Advanced Degree Credit.** These are "A," "B," "C" (up to, but no more than six hours), "S" (satisfactory), and "P" (pass).
- **Marks Carrying No Credit for Advanced Degrees.** These are "D" (poor), "F" (fail), "I" (incomplete), "W" (withdrawn), "U" (unsatisfactory), and "NC" (no credit).
- **Cumulative Gpa.** This average is based only on graduate work graded "A," "B," "C," "D," and "F" ("A" = 4, "B" = 3, "C" = 2, "D" = 1, and "F" = 0).
- **Semester Gpa.** This average is based on graduate and undergraduate work graded "A," "B," "C," "D," and "F."
- **"I" Grade.** An "I" grade indicates that course performance was satisfactory but,

because of circumstances beyond the student's control, all requirements have not been met. An "I" grade should never be given to enable a student to do additional work to bring up a deficient grade. An "I" grade may not be given for a course undertaken in the semester in which the student graduates if that course is listed on the application for degree or if changing the "I" grade to an "F" would result in the student's cumulative average being less than 3.00. An "I" grade should never be assigned for thesis/dissertation research. "S" (satisfactory) and "U" (unsatisfactory) grades are given for thesis (8000) and dissertation (9000) research courses, up to and including the semester the student graduates.

Authorization from the dean of the Graduate School is not required to assign an "I" grade to a graduate student. An "I" grade is valid only until the final date for submission of grades at the end of the next regular semester (fall or spring), whether or not the student is enrolled. "I" grades received in the spring semester or the summer term are valid until the end of the fall semester; "I" grades received in the fall semester are valid until the end of the spring semester. *There will be no extension of time.* Responsibility for changing an "I" grade lies both with the student and the faculty member concerned. Failure by the faculty member to submit a "Grade Correction Report" to change an "I" grade by the final date for submission of grades for the next regular semester will result in the "I" grade becoming a permanent "F" grade.

Unusual circumstances that preclude a student from completion of course requirements may, at the discretion of the dean of the Graduate School, permit assignment of a permanent "I" grade. Unusual circumstances might include, but would not be limited to, withdrawal of the student from the University because of prolonged medical problems or death or resignation of the faculty member concerned and the absence of another faculty member to supervise the unfinished work. Petition for a permanent "I" grade must be initiated by the student. The petition must be accompanied by a letter of justification from the faculty member concerned, if possible. It must also be endorsed by the chair of the student's department before it is submitted to the dean of the Graduate School.

- **The "W" Grade.** A "W" grade indicates a course has been dropped between the dates specified in the "Academic Calendar." In extraordinary cases, the dean of the Graduate School may authorize a resignation and/or dropping of a course after the last date specified.

The policies and procedures of the University governing grade appeals are described in the section concerning University regulations.

Pass-Fail Option

With approval of the student's major professor, department chair, instructor of the course involved, and the dean of the Graduate School, a graduate student may register on a pass-fail basis for courses not included in the

major or minor requirements. The deadline for changing from pass-fail grading to letter-grading, or vice-versa, is the last day for adding courses for credit. If the student's major department agrees, graduate courses passed with a grade of "P" may be offered for degree credit, but the grade will not be considered in computing the gpa.

For graduate credit courses, a grade of "P" will be assigned *only* if the work is of at least "B" quality. A grade of "F" in a pass-fail course will be treated as any other "F." Some departments have designated certain research and seminar courses to be taught on a pass-fail basis. All students enrolled in these courses will be graded in this manner.

Grade Requirements

Good Standing • Graduate students are considered to be in good standing, making satisfactory academic progress, if they earn a 3.00 cumulative average on all graduate course work taken within the LSU System and a 3.00 semester average on all course work (under-graduate and graduate), and if they earn a grade of "S" in research.

Probation and Dismissal • A student whose cumulative average is below 3.00 and/or whose semester average in both graduate and undergraduate course work is below 3.00 will be placed on probation, except that a student whose semester and/or cumulative average is as low as 2.75 may be dropped from the Graduate School without having a probationary period. A student already on probation whose cumulative and/or semester average is below 3.00 will be dropped from the Graduate School. A student receiving a "U" in research will be placed on probation. A student receiving a second "U" in research may be dropped from the Graduate School. For these purposes, a summer term is counted the same as a regular semester. (Rules governing students admitted on probation are given in the "Admission and General Information" section.) The grades recorded determine the student's academic status, even if the student changes to a different graduate degree program.

Students who have been dropped from a graduate degree program and are ineligible to continue in the Graduate School may not reapply as a nondegree student.

Applicants admitted on probation and students placed on probation may not be appointed to a graduate assistantship. (Refer to PS-21 for further details concerning assistantships and students on probation.)

Academic Dishonesty • Academic integrity and honesty must be fundamental qualities of any graduate student's program and a graduate student's conduct must be above reproach. Academic dishonesty undermines the entire academic enterprise; as a result, it cannot and will not be tolerated. It is the responsibility of all students to familiarize themselves with the *Code of Student Conduct* and other University rules and regulations governing student conduct and activities.

The Office of the Vice Chancellor for Student Life & Academic Services has administrative responsibility for coordinating all University disciplinary procedures and practices.

Graduation • To receive a graduate degree, students must be enrolled for the

semester, have at least a 3.00 cumulative average on all graduate course work taken that is applicable to the degree program and on all graduate course work taken while registered in the Graduate School. “S” and “P” grades are not considered in determining whether this minimum level of performance has been achieved. A maximum of six credit hours of course work with a grade of “C” may be counted toward degree requirements.

GRADUATE REGISTRATION

Specific registration dates are announced in the “Academic Calendar” for each semester or summer term. Instruction in the mechanics of registration will be published in the *Schedule of Classes* each semester.

COURSE LOADS

Any graduate student who is utilizing University facilities and/or faculty time must register for an appropriate course load. Graduate students engaged in the writing or the defense of theses/dissertations are expected to register for research hours commensurate with the amount of University resources (faculty time, equipment, library facilities, and/or office space) to be utilized that semester. There is a continuous registration requirement for doctoral students who have passed the general examination.

Full-Time Study in Graduate School

It is expected that a full-time graduate student will register for at least nine semester hours of work in the fall and spring (six hours in the summer).

Graduate students may, with prior written approval of the dean of the Graduate School, receive credit for work taken concurrently at another university. For example, LSU has a cooperative program with Southern University and some cooperative graduate programs with other universities in Louisiana.

Course Loads of Graduate Assistants

Graduate students holding graduate assistantship appointments must meet certain minimum registration requirements. Such students are expected to register for a full load (i.e., nine hours in the spring and fall, at least six of which must be at the graduate level, and six hours in the summer, at least three of which must be at the graduate level) each semester until all degree requirements are completed.

Course Loads of Graduate Students Taking Examinations

Students must be registered for a minimum of *one to three semester hours of credit* during any semester in which they are taking the master’s final or doctoral general examinations, including the qualifying examinations required by some departments. For doctoral students who have completed the general examination, see the section, “Continuous Registration Requirement.”

Course Loads of Full-Time Faculty and Other Academic Employees

A member of the faculty with the rank of assistant professor or above may register for a maximum of four semester hours of credit each semester or summer term, provided written approval has been given by the department chair and the dean of the college or school in which the faculty member is employed. Full-time instructors and associates may carry a maximum of four semester hours of course work at the 7000 level or six semester hours (four during the summer term) at the 4000 level.

Course Loads of Part-Time Faculty and Staff

Persons employed by the University for half-time or less may register as full-time graduate students. Persons employed more than half-time by the University should not register as full-time graduate students. The maximum load permitted will depend on the extent of employment. Written permission to register as a full-time student must be obtained from the graduate dean upon petition from the student’s advisory committee. Audits are not counted in the permitted load.

Registration of Employed Persons

The sum of the fraction of full-time registration and the fraction of full-time employment of nonacademic LSU employees should not exceed one and one-half. Written permission to exceed this registration/employment sum must be obtained from the graduate dean upon petition by the student’s advisory committee.

Registration for “Degree Only”

Students who have completed all degree requirements, including final examinations taken in a previous semester, may register for “degree only” and pay only the graduation fee, if their theses or dissertations are approved by the Graduate School on or before the last day to add courses for credit. Eligible students must submit an application for degree and inform the Graduate School of their intent to register for “degree only.” Non-thesis students may also register for “degree only” provided all degree requirements are met in a previous semester.

Registration of Candidates for Degrees

Students expecting to receive their degrees in the current semester must be registered for course work or research hours unless they qualify to be registered “degree only” (see above). Eligible students must submit an Application for Degree by the published deadline.

Adding or Dropping Courses

A course may be added or dropped only in accordance with the dates indicated in the “Academic Calendar.” During the drop/add period, the student will initiate the action using the online registration system, or PAWS. A change from credit to audit is treated as a drop and add action. Students

changing a course from credit to audit must submit an audit form to the Graduate School.

Auditing Courses

Regularly enrolled graduate students may audit courses with the consent of individual instructors and the graduate dean. Auditors will not receive degree credit for courses audited, nor will they later be permitted to take a credit examination on work audited. However, courses previously audited may be later taken for credit. Audited courses do not count in total course loads and are not recorded on official transcripts.

CHANGING DEGREE PROGRAMS

A student in one degree program who wishes to change to another degree program or a student who completes a degree and wishes to pursue another degree program must obtain the approval of the Graduate School and of the department in which admission is sought. A “Request for Change of Department” or “Request for Dual Degree” form may be obtained from the Graduate School. Students who wish to pursue a different degree in the same department must obtain approval from the department; the department must notify the Graduate School in writing of such a change. Doctoral students should contact the Graduate Student Academic Services Center for information regarding changing degree programs.

RESIGNATION FROM THE UNIVERSITY

Dropping an entire course load constitutes resignation from the University for that semester. A graduate student who wishes to resign must first secure approval of the dean of the Graduate School. A resignation must be completed within 10 days of the date approved by the dean. Completion of resignation involves clearance through certain administrative divisions of the University as shown on the resignation form provided by the Graduate School. A student who abandons courses without resigning will receive a grade of “F” in each course.

INTERINSTITUTIONAL COOPERATION

Academic Common Market

Thirteen southern states, including Louisiana, participate in the Academic Common Market, an interstate agreement for sharing uncommon programs. Residents of these states who are accepted for admission into selected out-of-state programs can enroll on an in-state tuition basis.

To enroll as Academic Common Market students, applicants must be accepted for admission into a program to which their state has made arrangements to send its students, and obtain certification of residency from the Common Market Coordinator in their home state. Applications for admission should be made directly to the institution offering the program. Additional information about the Academic Common Market and programs available at in-state tuition rates for residents of Louisiana can be obtained from the Office

of the University Registrar.

Cooperative Program with Southern University

See the section, “LSU—Southern University Cooperative Programs” for information about this program.

Multicampus Registration • LSU System

With appropriate approval, LSU graduate students may take courses for resident credit at the University of New Orleans or the LSU Medical Center in New Orleans. Fees paid at LSU will be for the number of hours to be taken at LSU plus the number of hours to be taken at one of these other campuses in the LSU system.

An application for multicampus registration may be obtained from the LSU Office of the University Registrar or the Graduate Student Academic Services Center. In order to prevent delay in registration, this form should be submitted at least two weeks before the scheduled time of registration. Approval for multicampus registration must be obtained from the student’s major department, the LSU Graduate School, the LSU Office of the University Registrar, and the dean of the college and registrar of the other campus.

Cooperative Graduate Programs

Several of LSU’s graduate degree programs have specific cooperation with other universities in Louisiana. These programs include applied statistics, economics, education, physics, psychology, oceanography and coastal sciences, and systems science. Details and additional information may be obtained from the graduate coordinator in each of these areas.

FOREIGN EXCHANGE PROGRAMS

In order to provide a variety of culturally enriching experiences for its students, the Graduate School has student exchange programs with foreign universities. Additional opportunities for study abroad are available through other campus offices. For more information, contact the Graduate School.

► REQUIREMENTS FOR ADVANCED DEGREES

REQUIREMENTS FOR THE MASTER’S DEGREE

Programs in liberal arts and social sciences ordinarily lead to the MA degree. Programs in other fields usually lead to the MS degree or to specialized master’s degrees.

Satisfaction of the minimum requirements of the Graduate School as stipulated in this catalog does not relieve master’s students of the responsibility for satisfying any additional requirements deemed appropriate by the graduate faculty of the degree program in which they are enrolled.

Hours Required

The minimum requirement is 30 semester hours of graduate work, 24 hours of which must be in course work and six hours in thesis research. In programs not requiring a thesis, the minimum requirement is normally 36 semester hours. At least one-half of the minimum required credit in the student’s master’s program must be in courses at or above the 7000 level. Transfer work from other institutions may not be counted toward this requirement. Six hours of thesis credit will be counted as work above the 7000 level. For example, students pursuing a 36-hour nonthesis option will have to complete a minimum of 18 hours in courses numbered at or above the 7000 level. A student’s efforts will be concentrated in one major field, but a department may require a minor of six or more semester hours of credit in one or more related fields.

A *maximum* of 12 semester hours of transfer credit from other schools and/or credit taken while classified as an LSU extension or nonmatriculating student may, in some cases, be used in a master’s degree program, if approved by the department chair and the dean of the Graduate School. See “Transfer of Credit” in the “General Graduate School Regulations” section of this catalog.

Application for Degree

Early in each semester or summer term there is a deadline for submitting the “Application for Degree” to the Graduate School. Master’s candidates are required to submit the “Application for Degree” cover sheet along with the “Master’s Application for Degree” forms. On these forms a student lists all course work taken that applies toward the degree.

Submission of the application carries with it the implication that the student intends to graduate that semester. If circumstances prevent graduation, an updated “Application for Degree” must be submitted to the Graduate School by the designated “Application for Degree” deadline for the next semester in which the student plans to graduate.

Time Limit

Programs for master’s degrees must be completed within five years from entrance into a degree program.

Credit for individual courses taken at LSU more than five years before the termination of a program may be revalidated by the student’s graduate committee through an examination. This examination may be oral, written, or both oral and written, depending on the requirements of the department concerned. The documentation of such an examination must be signed by members of the committee, the department’s graduate advisor, and reported to the Graduate School on the appropriate form before the request for the student’s final examination will be approved. No more than 50 percent of the courses in a student’s program may be revalidated and counted toward the degree requirements. However, some departments do not revalidate course work. Students should check with the department chair or graduate advisor to ensure revalidation is allowed.

For regulations regarding time limits and eligibility of transfer work, see *Transfer of Credit* in the “General Graduate School Regulations” in this chapter.

The Thesis and the Master’s Committee

In most departments, the preparation of a thesis is an important element in the program leading to the master’s degree. The master’s thesis should demonstrate capacity for research, originality of thought, and facility in organizing materials. The thesis must be acceptable in subject matter and exhibit creditable literary workmanship. At least six semester hours of thesis credit are required for the master’s degree with the thesis option. For additional information concerning thesis preparation, consult the pamphlet *Guidelines for the Preparation of Theses and Dissertations*, available at <http://etd.lsu.edu>.

Final acceptance of the master’s thesis rests with a committee of three or more members of the graduate faculty, nominated by the chair of the major department and appointed by the dean of the Graduate School. See the “Faculty” chapter of this catalog for definitions of full, associate, and affiliate members of the graduate faculty.

The major professor, who must be from the major department, is designated as chair or co-chair of this committee. If either is an adjunct or a non-tenure track faculty member is the major professor, a full-time tenured or tenure-track graduate faculty member must co-chair the committee. Other committee members may be from the major department or from other pertinent departments. If there is an external minor, one committee member must represent the minor department. Both thesis and nonthesis committees must include at least one full member of the graduate faculty, and at least one-half of the graduate faculty members must be full-time tenured or tenure-track faculty members at LSU. Any additions to or changes in the make-up of this committee must be approved in advance by the dean of the Graduate School. The dean of the Graduate School may serve as a member of any committee or may appoint additional members.

Nonthesis Programs

Some departments offer optional nonthesis programs for the master’s degree. Departmental announcements and the *Graduate Bulletin* indicate whether this option is available.

Comprehensive Final Examination

Candidates for master’s degrees in most programs are required to pass a comprehensive final examination. This examination may be oral, written, or both oral and written, depending on the requirements of the department concerned. In nonthesis programs, greater weight is ordinarily given to this examination, and it will probably be broader in scope than the examination given to a student who completes a thesis.

At least three weeks prior to the time this examination is to be given (and by the current semester deadline, if the student is a degree candidate), the student’s department should submit to the Graduate School a request for

appointment of the examining committee.

Normally, a candidate for the master's degree will take the final examination during the semester in which he or she plans to graduate. If a student wishes to take the final examination at an earlier date, the student's committee must furnish the graduate dean with a sound academic reason for doing so. To be eligible to take the final exam, the student must have a 3.00 cumulative gpa. Examinations may not be scheduled between semesters.

This committee, nominated by the chair of the student's major department and appointed by the dean of the Graduate School, is ordinarily composed of those faculty members who served as the student's thesis committee. For the nonthesis option the committee must consist of three or more members of the graduate faculty nominated by the chair of the major department and appointed by the dean of the Graduate School. At least one member of the examining committee must be a full member of the graduate faculty. The major professor serves as chair of the examining committee. Representatives of the graduate faculty may be added by the dean.

In order for the student to pass this examination, there may not be more than one dissenting vote. (Dissenting votes, along with assenting votes, must be recorded on the examination cards and the thesis approval sheets submitted to the Graduate School.)

Timely Completion of the Degree After Final Exam

Approved theses, including Graduate School corrections, must be submitted to the Graduate School no later than the deadline for submission of approved theses in the regular semester following the final examination. As with thesis candidates, non-thesis students who pass the final exam in one semester must complete degree requirements no later than the next regular semester following the final exam. A final examination may be voided by the dean of the Graduate School for failure to submit the approved thesis in a timely manner as described.

Second Master's Degree

Students who wish to obtain a second master's degree from this University must meet all academic and residence requirements set by the Graduate School and the department concerned. A maximum of six hours from the first degree may be applied toward the second. These hours should be listed on the "Application for Degree" for the second master's degree under the section "Transfer or Petitioned Credits."

Accelerated Master's Degree Program

Admission • The accelerated master's degree program is open to superior undergraduate students who have completed at least 60 semester hours of credit (including advanced placement credit) with a gpa of at least 3.50 for all work taken at LSU. (To be eligible, transfer students must have a 3.50 average on all undergraduate work taken prior to attending LSU and must complete at least one semester at LSU with a 3.50 gpa.)

Acceptance into the accelerated program requires approval from the following:

- the chair of the undergraduate department in which the student is enrolled;
- the dean of the college in which the student is enrolled;
- the chair of the department or the coordinator of the interdisciplinary program in which the student proposes to work toward the master's degree; and
- the dean of the Graduate School. The requested approvals will be given as signatures on a form designed specifically for this program.

It is the responsibility of the chair or coordinator of the graduate program to appoint the student's graduate faculty advisory committee.

Other admission requirements for graduate study, such as the GRE and the GMAT, will be waived until the student receives the baccalaureate degree and is ready to enter formally into Graduate School. Until that time, admission into the accelerated program will constitute provisional admission into the graduate program. Students will register as graduate students only after receiving the baccalaureate degree and satisfying departmental and Graduate School admission requirements.

Continuing eligibility for the accelerated master's program will require maintenance of a 3.50 average in all courses that apply to the undergraduate degree and a 3.00 average in all graduate course work.

Degree and Curriculum Requirements • Students who wish to obtain a master's degree under this program must meet all academic and residence requirements set by the Graduate School and the department concerned. Requirements for the baccalaureate degree will not be affected.

Students may take a maximum of half of the required hours for the master's degree while enrolled as undergraduates. These hours may be applied toward the master's degree provided a gpa of 3.00 is maintained in graduate course work and provided none of these hours apply toward the baccalaureate degree.

A student may wish to apply some graduate course work toward his or her undergraduate degree. In such instances, the graduate committee can alter the distribution of course work and independent study required for the master's degree. No course credit can be applied toward more than one degree.

► REQUIREMENTS FOR THE DOCTOR OF PHILOSOPHY DEGREE

The Doctor of Philosophy (PhD) is the highest earned degree offered by universities. It is conferred only for work of distinction in which the student displays decided powers of original scholarship and only in recognition of marked ability and achievement. Nothing in the following summary of minimum standards should be construed to imply that the degree will be granted merely in recognition of faithful performance of prescribed work. Satisfaction of the minimum requirements of the Graduate School as stipulated in this catalog in no way relieves doctoral students of

responsibility for satisfying any additional requirements deemed appropriate by the graduate faculty of the degree programs in which they are enrolled.

The basic requirements are: (1) A student must exhibit unmistakable evidence of mastery of a broad major field. Such evidence is ordinarily provided by passing a general examination; (2) A student must prove ability to complete a significant program of original research by preparing a dissertation embodying creative scholarship and by passing a rigorous final examination. The dissertation must add to the sum of existing knowledge and give evidence of considerable skill in communicating research findings through writing.

Course Work

While the degree of Doctor of Philosophy cannot be earned solely by passing courses, the program of work prescribed by departments ordinarily provides for a substantial amount of course work, equivalent to three years of full-time study beyond the requirements for the baccalaureate degree. Some departments require considerably more course work.

Although course work requirements are concentrated in the student's major field, a certain amount of work may be required in one or two minor fields. If there is minor course work, the Graduate Council recommends that the minor field requirement include at least one 7000-level course. The course work and the number of hours needed to satisfy the minor field requirement are determined by the graduate faculty in the minor department. All doctoral programs require approval of the dean of the Graduate School and the Graduate Council.

Program of Study

The Graduate School does not require a formal qualifying examination or procedure for doctoral students, although departments may, if they wish, administer such examinations or procedures. A student is eligible to work toward a doctoral degree beginning with the semester in which he or she is formally admitted into a doctoral program.

After meeting with the student, the advisory committee will be required to submit to the Graduate School for approval a planned "Program of Study" during the first or second semester after the student has been formally admitted. If the student already has a master's degree, the "Program of Study" should be formulated during the first semester; if the student is bypassing the master's degree, formulation may be delayed until the second semester. The advisory committee, which should include at least one representative from the minor field (if appropriate), is not necessarily identical to the student's committee for the general examination.

The suggested general examination committee will be approved at the time the request for the general examination is submitted to the Graduate School.

The student's program of study is subject to Graduate School policy and departmental requirements. Graduate course work taken at another institution with grades of "A," "B,"

“P,” “S,” or the equivalent is not subject to the policy on transfer of credit for the master’s degree and may be included in the program of study, if accepted by the department and the student’s advisory committee.

Advisory Committee

During the entire period of work toward the doctorate, the student’s program is directed by a special advisory committee. This advisory committee consists initially of three members of the graduate faculty. After the outlines of the program have assumed more definite form and the direction of research has been clearly established, this special committee is enlarged to four or more members. This enlargement must take place prior to the general examination.

The full advisory committee must comprise at least four members of the graduate faculty, including the major professor, who acts as chair and who must be from the major department. If either an adjunct or a non-tenure track faculty member is the major professor, a full-time tenured or tenure-track graduate faculty member must co-chair the committee.

At least one-half of the graduate faculty on doctoral committees must be full-time tenured or tenure-track faculty at LSU. A minimum of two of those faculty members must be from the major department at LSU and at least one of whom must be a full member of the LSU graduate faculty. The remaining members may be from the major department or may be from outside the department, if pertinent to the student’s area of concentration, with the proviso that at least one of the remaining members must be a full member of the graduate faculty.

Any declared outside minors require representation, either from among the first four members of the committee or by additional appointments. The dean of the Graduate School may serve as an *ex officio* member. Members of the special advisory committee are nominated by the chair of the major department and appointed by the dean of the Graduate School, who may make changes deemed desirable.

In addition, the dean of the Graduate School appoints a member or members of the graduate faculty to serve on doctoral general and final examination committees. These individuals represent the dean and the entire graduate faculty. They are full voting members of the committee, with all the rights and responsibilities of the other committee members. In the case of final examinations, it is the responsibility of the department chair to ensure that the dean’s representatives receive copies of dissertations as soon as possible, and no later than two weeks before the date of the examination.

Full-time Residence Requirement

One full academic year of continuous residence (two consecutive semesters: fall and spring or spring and fall) as a full-time graduate student must be earned at LSU after the “Program of Study” is received by the Graduate School. If the “Program of Study” is received in a semester (on or before the date specified in the “Academic Calendar”) and the student is enrolled full-time, that semester may be counted as the first of the two

consecutive semesters of full-time residence required.

Students who are in residence for the purpose of this requirement are devoting essentially all of their energies to graduate study under the direct supervision of a major professor and an advisory committee.

General Examination

It is in the best interest of students for those with high probability of continuing successfully toward a doctoral degree be identified as soon as possible. Doctoral students are therefore required to pass a rigorous qualifying examination, or the general examination, within three calendar years (36 months) of their classification as doctoral students, or a period deemed equivalent for part-time students. Exceptions may be made to this policy if a department petitions the Graduate School. Whether a qualifying or a general examination is used to meet the above requirement, the procedure should be sufficiently rigorous so as to provide reasonable confidence that the student who passes it may proceed successfully to a doctoral degree.

A student becomes eligible to take the general examination after demonstrating to the advisory committee adequate academic and professional aptitudes. Examinations may not be scheduled between semesters. Students on probation will not be allowed to take the general examination. Students must be registered for a minimum of one to three hours of credit during the semester in which they are taking the general examination.

There is no Graduate School requirement that doctoral students pass a pre-general examination before becoming eligible to take the general examination. However, since pre-general examination requirements may be retained by individual departments, students should check with the appropriate departmental office concerning this requirement.

A request for the general examination must be submitted to the Graduate School by the student’s department chair at least three weeks prior to the proposed examination date. This request must state the time and place proposed and the names of faculty members nominated to serve as the examining committee. Under ordinary circumstances, these will be the members of the enlarged advisory committee; one or more representatives of the graduate faculty will be appointed by the dean of the Graduate School. Any additions to or changes in the makeup of this committee must be approved in advance by the dean of the Graduate School. At this time, if there are any changes in the “Program of Study,” a “Request for Change in the Program of Study for the Doctoral Degree” form should be completed and submitted to the Graduate School.

The general examination is ordinarily the most rigorous test in the entire doctoral program. In order for the student to pass this examination, there may not be more than one dissenting vote. (Dissenting votes, along with assenting votes, must be recorded on the examination cards submitted to the Graduate School.)

The examination may be oral, written, or oral and written according to the rules of the major department. However, the minor

department (if an outside minor has been declared) retains the right to decide the form of its part of the examination. The examination must be comprehensive enough to demonstrate expert competence over broad segments of the major field and a high degree of familiarity with the content of and current progress in one or more minor fields (if appropriate). The general examination should be regarded as the culmination of a student’s program in course work. In most cases, the remaining time spent in obtaining the degree is to be devoted to concentrated work on the dissertation and preparation for the final examination. When the general examination is passed, report cards should be completed in duplicate and forwarded to the Graduate School.

Continuous Registration Requirement

Doctoral candidates must maintain continuous registration for a minimum of three semester hours of credit each regular semester (excluding summers) from the completion of the general examination to the end of the semester in which an approved dissertation is submitted to the Graduate School.

The dean of the Graduate School may exempt a student from the continuous registration requirement upon departmental certification that the student is in absentia from the University and is not drawing directly upon University resources. Exemptions are intended to accommodate students whose dissertation research requires extended periods of absence for field work in distant archives and laboratories; exemptions are not intended for students who have accepted positions as employees in business, industry, or education.

Dissertation

Students who have passed the general examination normally direct most of their energies toward preparation of the dissertation, which must be a contribution to knowledge in the major field of study. The dissertation must demonstrate a mastery of research techniques, ability to do original and independent research, and skill in formulating conclusions that in some way enlarge upon or modify accepted ideas.

The form of the dissertation must be in accordance with the instructions in the pamphlet “Guidelines for the Preparation of Theses and Dissertations,” available online at www.gradschool.lsu.edu.

LSU Alumni Association Distinguished Dissertation Award

The Distinguished Dissertation Award, consisting of \$1,500 and a certificate, is presented annually to two doctoral students whose research and writing epitomize superior scholarship. One award is designated for a student in the arts, humanities, or social sciences and one for a student in science, engineering, or technology. The awards are made each spring in conjunction with the Distinguished Research Master Award.

Final Examination

A request for the final examination must be submitted to the Graduate School by the student’s department chair at least three weeks prior to the proposed examination date, and by the current semester deadline, if the student is a candidate for a degree (see the “Academic Calendar” for all pertinent dates). This request must specify the major and minor fields (if appropriate), dissertation title, time and place proposed for the examination, and nominations for the examining committee. The examining committee, including the dean’s representative, must have copies of the dissertation at least two weeks prior to the final examination. To be eligible to take the final exam, the student must have a 3.00 cumulative gpa. Examinations may not be scheduled between semesters.

Permission to hold the final examination will be granted by the dean of the Graduate School only after all the foregoing conditions are satisfied and one academic year has elapsed since the student passed the general examination. “One academic year” in this case is the interval between a general examination held early in one term and a final examination held toward the close of the following term.

The dean of the Graduate School will approve the final examination committee. In most cases, it will consist of the student’s special advisory committee or a similarly constituted group, to which one or more additions have been made as representatives of the dean and the graduate faculty. Any additions to or changes in the make-up of this committee must be approved by the Graduate dean in advance of the examination.

Although the final examination is traditionally conducted as an oral test primarily concerned with the dissertation and

related topics, the committee determines procedure and content, which may extend into subject matter related to major and minor fields (if appropriate), even though well removed from topics suggested by the dissertation. In order for the student to pass this examination, there may not be more than one dissenting vote. (Dissenting votes, along with assenting votes, must be recorded on the examination cards and the approval sheets submitted to the Graduate School.)

Timely Submission of Approved Dissertations

Approved dissertations, including Graduate School corrections, must be submitted to the Graduate School no later than the deadline for submission of approved dissertations in the regular semester following the final examination. A final examination may be voided by the dean of the Graduate School for failure to submit the approved dissertation in a timely manner as described.

Application for Degree

Early in each semester or summer term, there is a deadline for submitting the “Application for Degree” to the Graduate School. Doctoral candidates are required to submit the “Application for Degree” form. Submission of the application carries with it the implication that the student intends to graduate that semester. If circumstances prevent graduation, an updated “Application for Degree” must be submitted to the Graduate School by the designated deadline for the semester in which the student plans to graduate.

Certification of Completion of Requirements

Upon timely submission of the “Application for Degree,” upon passing the final examination, with not more than one member of the committee dissenting, and upon submitting a dissertation in acceptable form to the Graduate School, the student will be certified to the LSU Board of Supervisors by the dean of the Graduate School as having fulfilled all requirements for the degree of Doctor of Philosophy. This certification takes place at the next commencement, at which time the degree is conferred.

Time Limit

The program for the doctoral degree must be completed within seven years from the time a student is classified as a doctoral student. This time limit may not be exceeded except by special permission of the dean of the Graduate School. No less than one academic year (see “Academic Calendar”) may elapse between the passing of the general examination and the completion of all requirements for the doctoral degree.

Requirements for the Doctor of Musical Arts Degree

The Doctor of Musical Arts (DMA) is a professional degree in music. The course work, residence requirements, and examination sequences are similar to those for the PhD degree. Major differences in the two programs are in the dissertation and minor field requirements (if appropriate). For the special admission and course requirements for this degree, consult the School of Music.

FULFILLING DOCTORAL DEGREE REQUIREMENTS	
PROCEDURE	TIME
Submit Program of Study	During the first semester after the master’s degree is awarded or during the first full year of full-time graduate study for a student not taking the master’s degree.
Satisfy Full-Time Residence Requirement	After submission of “Program of Study.” One full academic year of continuous full-time enrollment.
Request General Examination	After completing most course work. Request for the general examination must be submitted to the Graduate School by the student’s department chair, at least three weeks prior to the proposed examination date.
Request Final Examination	At least one academic year after passing the general examination. Request for the final examination must be submitted to the Graduate School by the student’s department chair, at least three weeks prior to the proposed examination date and by the current semester deadline, if student is a candidate for degree.

► PROFESSIONAL PROGRAMS

The following sections describe two professional programs, in library and information science and in social work, offered through the Graduate School, as well as the professional DVM program offered through the School of Veterinary Medicine. A complete list of degree programs offered through the Graduate School is provided earlier in this chapter. For detailed descriptions of the various graduate programs, see the *Graduate Bulletin*.

SCHOOL OF LIBRARY & INFORMATION SCIENCE

OFFICE • 267 Coates Hall
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The School of Library & Information Science provides education for careers in all types of libraries and information centers leading to the master's degree (MLIS) in Library and Information Science. The School's master's degree is accredited by the American Library Association, and the School is a member of the Association for Library and Information Science Education.

A broad general education is the best preparation for library and information science. Undergraduates are advised to develop strong subject emphases in the areas of their special interests and abilities, since every field of knowledge is useful in the information professions. The school does not require a foreign language for admission; however, course work in one or more foreign languages is advisable for those who expect to prepare for careers in research or technical libraries. Students who expect to become librarians in elementary or secondary schools should plan their undergraduate programs with state teacher certification requirements in mind.

Students working toward the master's degree are enrolled in the Graduate School; therefore, applicants must meet the general Graduate School requirements in addition to the School of Library & Information Science requirements. Application forms may be obtained from the office of the dean. Admission will be based on the candidate's scholastic record and aptitude for a career in the information professions.

Requirements for the Master of Library and Information Science degree are as follows:

- satisfactory completion of a minimum of 40 semester hours (see the "Graduate School Regulations" for rules on transfer credit);
- successful performance on a written comprehensive final examination;
- completion of the degree program in *five* years. (Credit for individual courses taken more than five years before the completion of the program may be validated with the permission of the instructor of the course and the dean, and with approval of the dean of the Graduate School. Requirements for so doing are set by the instructor.)

SCHOOL OF SOCIAL WORK

OFFICE • 311 Long Fieldhouse
TELEPHONE • 225-578-5875
FAX • 225-578-1357
WEB SITE • www.socialwork.lsu.edu

The LSU School of Social Work was founded in 1937 in the era of the "New Deal" programs, reflecting a growing need for professional social workers. The school has a reputation for excellence in professional education and a long tradition of service to the professional community. The focus of the school is to educate competent, professional social workers and to use research to enhance the effectiveness of social work practice. The school has a commitment to culturally competent practice, an equally strong commitment to the social work profession's core values of social and economic justice, respect for the dignity and worth of each individual, and the centrality of human relationships to well-being. The research infrastructure of the school includes active programs in the areas of juvenile justice, poverty, mental health, addictions, gerontology, community development, and child welfare. The school is a charter member of the Council on Social Work Education and its master's program has maintained continuous accreditation with this body since its inception.

LEADING

- A nationally ranked master's program
- The only social work PhD program in Louisiana
- The state's only graduate program in a public university with a research office
- Hartford Geriatric Social Work Faculty Scholar. The first faculty member from LSU to be selected as well as the first from the state of Louisiana
- Graduate selected as a Presidential Management Fellow by the U.S. Office of Personnel Management

TRANSFORMING

- Establishing the Louisiana Poverty Initiative for research on the causes and outcomes of poverty, which focuses on academic research and individual and community actions to create pathways out of poverty for children and families
- Improving Louisiana's child welfare professionals through the Louisiana Child Welfare Comprehensive Workforce Project to improve safety, permanency, and well-being outcomes for children and youth by building the capacity of Louisiana's child welfare professionals and by improving the systems to recruit, train, supervise, manage, and retain them
- Truancy Assessment and Service Centers (TASC) operate in over 20 parishes to prevent truancy in kindergarten through fifth grade
- Meeting the critical need for more professionals skilled in the area of addictions by partnering with the Capital Area Human Services

District on the Addictive Disorders Training Initiative

EMPOWERING

- Over 50 percent of all credentialed social workers in Louisiana have graduated from LSU and 77 percent of our graduates remain working in the state
- Students provide an estimated 96,000 hours of service to community agencies annually. There are more than 300 approved community agencies throughout every part of Louisiana serving as field placement sites

Master of Social Work • Minimum requirements for the MSW are as follows:

- 60 semester hours of credit following the prescribed sequence of course work;
- A cumulative gpa of 3.00 and no grade lower than a "C" in any course applied toward the degree; and
- Satisfactory completion of a thesis or one of the nonthesis options. The MSW degree must be completed within four years of initial registration.

Students who receive a baccalaureate degree in social work in a program accredited by the Council on Social Work Education may be eligible for admission into the advanced instruction phase of the MSW program. Such students are normally exempt from taking the foundation courses, with the exception of SW 7010, *Differential Diagnosis*. This course must be taken in the summer session prior to the student's fall start date. They may, however, be required to take additional field internship courses or other course work as deemed necessary.

PhD in Social Work • The program's objective is to provide an advanced interdisciplinary degree that will equip graduates for important roles in policy analysis and development, research, teaching, and the development of new intervention technologies.

- Minimum requirements for the PhD are:
- 39 semester hours of course work; and
 - Nine hours of dissertation.

The *minor in social work* provides undergraduate students an opportunity to acquire substantive academic emphasis in social work practice covering the lifespan from children to older adults. Students minoring in social work must complete a total of 18 hours.

Required 9 hours:

SW 2000 (3) Introduction to Social Work
SW 3002 (3) Child & Community
SW 3003 (3) Skills in Working with People

Select nine hours from the list of electives below:

SW 3007 Juvenile Delinquency
SW 3011 Community Services & the Aged
SW 4003 Penology
SW 4500 Crisis Intervention
SW 4070 Special Topics in Social Work

Admission to the MSW and PhD programs is granted by the school's faculty on the basis of the applicant's undergraduate record and personal qualifications. No academic credit is granted for work or life experiences. Admission requirements and procedures are described in the School of Social Work Bulletin and the Graduate Bulletin. Students enrolled in other divisions of the University who have appropriate standing may register for social work courses numbered below 5000 for which they have the specific prerequisites. Graduate students in other departments who have the necessary prerequisites may register for social work courses with the permission of the instructor and the associate dean of the school. They may not register for social work practice or field internship courses.

SCHOOL OF VETERINARY MEDICINE

OFFICE • 1102 Veterinary Medicine Building
TELEPHONE • 225-578-9900
FAX • 225-578-9916

Department of Comparative Biomedical Sciences

OFFICE • 2510 Veterinary Medicine Building
TELEPHONE • 225-578-9889
FAX • 225-578-9895
WEB SITE • www.vetmed.lsu.edu/van

Department of Pathobiological Sciences

OFFICE • 3315 Veterinary Medicine Building
TELEPHONE • 225-578-9684
FAX • 225-578-9701

Department of Veterinary Clinical Sciences

OFFICE • 1821 Veterinary Medicine Building
TELEPHONE • 225-578-9551
FAX • 225-578-9559
WEB SITE • www.lsu.edu/vcs

The LSU School of Veterinary Medicine admitted its first students to the professional curriculum during the 1973-74 academic year. The original entering class consisted of 36 students, all residents of Louisiana. Class size has increased significantly in recent years.

The school participates in the Southern Regional Education Board's (SREB) program for education in veterinary medicine. Training contracts negotiated through SREB provide a limited number of entering spaces for qualified candidates from Arkansas. A limited number of entering spaces is also allocated for highly qualified nonresident applicants under the school's special admission policy.

The school received full accreditation from the Council on Education of the American Veterinary Medical Association in April 1977, which was reaffirmed in 2002.

The School of Veterinary Medicine offers the professional degree, Doctor of Veterinary Medicine. Interdepartmental Master of Science and Doctor of Philosophy degree programs in veterinary medical sciences are offered through the Graduate School.

THE PROFESSIONAL PROGRAM IN VETERINARY MEDICINE

Admission Requirements

Students contemplating a career in veterinary medicine should acquire a sound foundation in the biological and physical sciences and a general knowledge of the arts and humanities in both high school and college. In addition, they should be motivated by a liking for animals, a sincere desire to serve the public, a propensity for the biological and medical sciences, and a deep interest in promotion of the health of animal and human populations. They must have a high aptitude for scientific study and must possess an excellent moral and ethical character.

Candidates for the Doctor of Veterinary Medicine degree must complete a minimum of six years of college education. This includes two or more years of preveterinary training and four years of professional training. The preveterinary requirements may be completed at LSU or any other accredited college or university offering courses of the quality and content of those prescribed in the *LSU General Catalog*. (See the section of this catalog titled "College of Agriculture" for the preveterinary medicine curriculum at LSU.)

The minimum requirement of 66 semester hours, including 20 hours of elective courses, may be completed in two years. Successful completion of a preveterinary program does not ensure admission to the school for professional training. Currently, there are more qualified applicants each year than there are spaces available in the entering class. Instruction in the four-year program is available only through the School of Veterinary Medicine at LSU.

Scholastic achievement is measured by performance in the prescribed pre-professional courses. A minimum grade point average of 3.0 ("A" = 4.00) in these courses is required for consideration for admission. A grade of less than "C" in a required course is unacceptable. Physical education activity courses may not be used as electives for meeting pre-professional requirements. Requirements are not waived in lieu of work experience.

Credit earned through advanced standing is acceptable, but is not used in the computation of the grade point average. Evaluation of the applicant's record in the pre-professional program is made in accordance with LSU procedures. Credit is not granted for College Level Examination Program (CLEP) general examinations. Granting of credit for CLEP subject examinations may be considered in those subjects recommended by various departments of the University upon receipt of test scores indicating the student meets the minimum acceptable scores required by those departments.

Admission Procedures

Admission to the School of Veterinary Medicine is granted only for the fall semester of each school year and only on a full-time basis. A prescribed number of student spaces is planned for each class and formal application material with all supporting

credentials is required of each applicant. Students admitted and enrolled in the school must be capable of satisfactorily meeting all requirements of the curriculum in veterinary medicine. Eligible candidates are chosen to be interviewed by members of the Faculty Committee on Admissions and Scholastic Standing and are carefully selected to ensure that they are properly motivated, competent to undertake the rigorous courses of professional study, and capable of meeting the demands of a professional career.

The Faculty Committee on Admissions and Scholastic Standing is responsible for determining the application procedure and for selecting the entering class in the professional curriculum. All pre-professional requirements must be completed by the end of the spring semester before fall matriculation in the LSU School of Veterinary Medicine. Formal applications must be submitted no later than October 2, 2008 at noon (EDT). Applications must be submitted through the Veterinary Medical Colleges Application Service (VMCAS). Along with the VMCAS application materials, a supplemental application must be completed and submitted directly to the School of Veterinary Medicine's Admissions Office, as well as all official undergraduate/graduate transcripts, GRE scores, and letters of recommendation. Please visit the Admissions Office's Web site at www.vetmed.lsu.edu/admissions for greater details on the application process. Students reapplying must submit a completely new application for each application period, including all transcripts, GRE scores, supplemental applications, etc.

Academic and non-academic qualifications are considered in the selection process. Selection for admission is based on the sum of the objective and subjective scores. The exact combination of each component to the total score may vary slightly from year to year and is determined by the admissions committee and the dean.

- An objective score that comprises approximately 65 percent of the final calculation is determined by the gpa in all required courses (approximately 29 percent), the gpa in the last 45-60 hours (approximately 18 percent), and the score on the GRE (approximately 18 percent).
- A subjective score comprises approximately 35 percent of the final calculation and is determined by a review of the applicant's folder (approximately 15 percent), an interview (for Louisiana and Arkansas residents only – approximately 10 percent), and a holistic assessment by the admissions committee.

The objective evaluation is based on scholastic achievement and standardized test scores. Official transcripts of college course grades are examined to determine scholastic achievement. The total objective score is derived from the grade point average on required courses, the grade point average on the most recent 45-60 semester hours of course work, and the results of the GRE. New knowledge, especially in the sciences is accruing at a rapid rate, so if a student has completed the pre-professional requirements several years prior to application, records will be carefully scrutinized. It is advised that all required science courses should be completed within six calendar years immediately prior to

application. At least one course in organic chemistry, biology, and physics must be completed within the last six years.

Only animal science, physical science and biological science courses are included in the Required Course GPA. Social science, humanities, business, kinesiology, and any general education courses are NOT calculated into the Required Course GPA, but are still calculated into the Last 45 Credit Hour GPA, except for kinesiology courses.

The subjective evaluation of applicants is based on non-academic qualifications considered relevant to the determination of the applicant's prospective performance in the veterinary medical curriculum and in the practice of veterinary medicine. Motivation, maturity, attitude, interest, and other characteristics will be evaluated for all qualified candidates, along with work experience, familiarity with animals, and reference information submitted in support of the application. These qualities are evaluated by two separate committees. The first committee reviews the supporting documents (autobiography, letters of recommendation, transcripts, work experience, and familiarity with animals). The second committee evaluates the individual through a personal interview. These appraisals result in an average subjective score which is added to the objective score to produce the total numerical evaluation of the candidate. Through this process, the professional judgment of several faculty members is included in arriving at a final decision of recommended students for the new class. Interviews are not granted to every Louisiana and Arkansas applicant, and only select out-of-state applicants will be invited to interview.

The final decision rests with the dean of the LSU School of Veterinary Medicine. The Faculty Committee on Admissions and Scholastic Standing makes their recommendations to the dean who then finalizes the offers of admission.

Under exceptional circumstances, a limited number of applicants not selected under the above criteria may be admitted. Factors to be considered by the Faculty Committee on Admissions & Scholastic Standing include undergraduate experience, GRE score, advanced academic work, work experience, or participation in special educational programs, as well as those special attributes possessed by the applicant that add to the cultural, educational, and/or geographical diversity of the entering class.

Please visit the School of Veterinary Medicine's Admissions Office Web site at www.vetmed.lsu.edu/admissions for more information on admission requirements, residency, classifications, minimum prerequisites, admissions procedures, statistics, important dates and deadlines, and much more.

Minimum Prerequisites for Admission (66 sem. hrs.)

Pre-veterinary students are encouraged to familiarize themselves with admission requirements for the professional program at the School of Veterinary Medicine. Students should seek knowledgeable pre-veterinary counselors and/or advice from the LSU School of Veterinary Medicine's Admissions Office (admissions@vetmed.lsu.edu) when

enrolled in pre-professional programs other than at LSU. A minimum of 66 total semester hours is required for consideration for admission into the professional DVM program. This must include the 46 semester credit hours of the courses listed below. More specific details regarding course descriptions can be found at the School of Veterinary Medicine Admissions Web site at www.vetmed.lsu.edu/admissions.

Biological Science, 12 sem. hrs. • Must include at least eight sem. hrs. (two-semester course sequence with laboratory) in introductory zoology or general biology at a level appropriate for premedical students. Must also include at least four sem. hrs. (one-semester course with laboratory) in microbiology at a level appropriate for pre-medical students. *LSU courses*—BIOL 1201, 1208, 1502, 1509, and 2051.

General Chemistry, 8 sem. hrs. • Must include laboratory and must be at a level for science or engineering majors. *LSU courses*—CHEM 1201, 1202, 1212.

Organic Chemistry, 3 sem. hrs. • Must cover aliphatic and aromatic compounds with an emphasis on the biological aspects of organic chemistry. *LSU course*—CHEM 2060.

Biochemistry, 3 sem. hrs. • Must include three sem. hrs. of basic concepts and an introduction to the nature and physiological uses of natural substances. *LSU course*—BIOL 2083.

Mathematics, 5 sem. hrs. • Must be at the college algebra/trigonometry level or higher. *LSU courses*—MATH 1020/1021, 1022. Students who qualify for more advanced math may substitute MATH 1023 (5 sem. hrs.) for 1020/1021 and 1022.

Physics, 6 sem. hrs. • Must be at a level for science majors and must include mechanics, heat, sound, light, electricity, magnetism, and topics in modern physics. *LSU courses*—PHYS 2001, 2002.

Communication Skills, 9 sem. hrs. • Must include six sem. hrs. of English composition and three sem. hrs. of a public speaking or interpersonal communication course. *LSU courses*—ENGL 1001, 1002 and CMST 2010 or 2060.

In selecting the remaining required courses for admission to the professional program, applicants should consider the following:

- The objective of the DVM program is to offer a well-rounded curriculum in veterinary medical education enabling the graduate to select from a wide range of professional opportunities. The selection of elective courses in the preprofessional curriculum should reflect the interests and objectives of the candidate. Potential applicants should plan their programs with the recognition that these elective courses provide the only formal opportunity in the college years to obtain a broad general education.
- Applicants who have completed advanced preparatory courses in high school are, in all probability, qualified to complete the prerequisites in four semesters. These students are encouraged to take higher level university courses when so permitted. Applicants who are inadequately prepared may find it advantageous to complete the preveterinary requirements over a longer period.

- Although the primary objective of the applicant may be to complete the preveterinary requirements, those who have not previously obtained a baccalaureate degree are encouraged to plan for alternative career possibilities though a degree-granting program that has similar course requirements. Several LSU curricula include all of the minimum mandatory requirements.

Many other curricula that do not specify all of the requirements allow them as electives. Because not all applicants will gain admission to the School of Veterinary Medicine on the first attempt, they should continue in degree programs while making themselves more competitive in subsequent years. Some students may elect to complete a baccalaureate degree in order to pursue graduate training during the first and second summers of the professional program.

- Since applicants must take the GRE in the fall preceding application or earlier, those students following a four-semester program must complete this test only four weeks after beginning the sophomore year. Appropriate preparation and the selection of a curriculum that contributes to an acceptable score are strongly suggested.

Students who are enrolled at accredited institutions other than LSU must determine that courses taken conform in content and quality to descriptions contained in the latest issue of the *LSU General Catalog*, which can be obtained upon request from the LSU Office of the University Registrar (\$3 per copy). If there are any questions regarding equivalency of courses, please contact the School of Veterinary Medicine's Student Affairs Office by e-mail (admissions@vetmed.lsu.edu) or telephone (225-578-9538).

All requirements must be completed by the end of the spring semester of the year in which admission is sought. All application materials must be received by the appropriate deadlines. Application materials received after the given deadlines will not be accepted, and will result in the applicant being removed from consideration. Please visit the School of Veterinary Medicine's admissions Web site at www.vetmed.lsu.edu/admissions for application deadlines.

Information concerning LSU's preveterinary medicine program is contained in this *LSU General Catalog* or may be obtained from the dean of the College of Agriculture.

THE GRADUATE PROGRAM IN VETERINARY MEDICINE

The consolidated program in veterinary medical sciences provides graduate academic training in veterinary medicine. It includes intensive research training in various specializations. Most students engaged in advanced studies in veterinary medicine will have received the DVM degree and elected to pursue intensive postdoctoral training in one or more of the disciplinary or specialty areas of veterinary medicine.

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Research • Faculty Resources

Research and scholarly activity are fundamental to the role of the faculty and essential to the attainment of the University's goals of academic excellence and national prominence. Research is a crucial part of graduate instruction and has profound effects upon the currency and vitality of undergraduate education. This exploration of the boundaries of knowledge is undertaken by faculty in the various departments and by the research units included in this section.

OFFICE OF RESEARCH & ECONOMIC DEVELOPMENT

INTERIM VICE CHANCELLOR FOR
RESEARCH & ECONOMIC
DEVELOPMENT • Carver
OFFICE • 130 David Boyd Hall
TELEPHONE • 225-578-5833
FAX • 225-578-5983
WEB SITE • www.research.lsu.edu
E-MAIL • research@lsu.edu

CENTER FOR COMPUTATION & TECHNOLOGY

INTERIM DIRECTOR • Beck
INTERIM CO-DIRECTOR • Pullin
OFFICE • 216 Johnston Hall
TELEPHONE • 225-578-4012
FAX • 225-578-5362
WEB SITE • www.cct.lsu.edu
E-MAIL • info@cct.lsu.edu

The *Center for Computation and Technology* was created in response to a funding initiative created by Governor Mike Foster and the Louisiana Legislature to invest in university research and teaching programs as engines of economic development. As stated in *Vision 2020*, the area of information technology has been selected as one of the six areas of focus by the state of Louisiana.

The center draws on the established areas of expertise at LSU in computer science, computer engineering, and information systems and decision sciences. The center also looks to create new areas of research excellence in order to provide the state and nation with graduates who are equipped to handle the growing technology infrastructure.

CENTER FOR FRENCH & FRANCOPHONE STUDIES

DIRECTOR • Dubois
ASSISTANT DIRECTOR • Jacob
OFFICE • 425 Hodges Hall
TELEPHONE • 225-578-6589
FAX • 225-578-0305
WEB SITE • www.lsu.edu/cffs

The *Center for French & Francophone Studies* develops and encourages interdisciplinary research in French and Francophone literatures, cultures, and language. It provides facilities and opportunities for LSU and visiting faculty as well as for student researchers. The center is involved with all French and Francophone activities at the University and with state and national organizations. Open to faculty and students, a library of French and Francophone literature and reference materials is also housed in the Center, as is a video library containing many African francophone films.

LSU HURRICANE CENTER

INTERIM DIRECTOR • Suhayda
OFFICE • 3199 Energy, Coast & Environment
Bldg.
TELEPHONE • 225-578-6441
WEB SITE • www.hurricane.lsu.edu
E-MAIL • jsuhayda@lsu.edu

The LSU Hurricane Center is a one-of-a-kind research and outreach unit where university faculty and practicing scientists and engineers come together to provide an integrated approach to coupling earth-surface dynamics with hurricane wave and surge modeling. Through the breadth of its activities and foci, the LSU Hurricane Center has become an increasingly essential component of Louisiana's hurricane preparedness and response capabilities. It was established in early 1999 and approved by the Board of Regents in 2000, with the goal of developing an interdisciplinary research program focused on hurricanes and their impacts on the natural and human environments. It acts as a focal point to conduct research, transfer knowledge, and assist the state and nation in coping with hurricanes and their impacts, and it is a critical component of the LSU Coastal Sustainability Agenda (www.research.lsu.edu/csa/). The Hurricane Center hosts seminars and workshops, and it is involved in the following research areas:

- Hurricane – Landscape Interactions
- Engineering Resilient Levees & Coastal Structures
- Risk Assessment & Planning

CENTER FOR ENERGY STUDIES

EXECUTIVE DIRECTOR • Pulsipher
OFFICE • 1101 Energy, Coast & Environment
Building
TELEPHONE • 225-578-4400
FAX • 225-578-4541
WEB SITE • www.enrg.lsu.edu
E-MAIL • ces@lsu.edu

The Center for Energy Studies provides analysis, research, information, and technology transfer on energy and environmental issues that are important to Louisiana. The center is composed of divisions for Policy Analysis, Energy Information and Data, Minerals Processing Research, and Research and Development.

Also reporting through the center's executive director are a number of independent institutes and programs. These are the *Louisiana Oil Spill Research & Development Program*; the *Louisiana Geological Survey*, which includes the Basin Research Institute as its Oil & Gas Division; and the *Radiation Safety Office*. Although independent, these units all have either a state legislative or federally mandated mission, an applied resource policy focus, and a strong commitment to public service. Neither the center nor its associated independent units have academic programs, but they frequently

employ graduate assistants and work with staff or faculty from academic units on projects of mutual interest.

The center, created by the Louisiana Legislature in 1982, is the state's only officially recognized energy studies center for public higher education. The center conducts, encourages, and facilitates energy-related research and analysis concerning problems and issues affecting Louisiana's economy, environment, and citizenry. Whether conducted by its staff or by others it supports, the goal of the center is to provide a balanced, objective, and timely treatment of issues with potentially important consequences for Louisiana. The center provides information and analysis that respond to the needs of the Legislature, public agencies, and business and civic groups.

Louisiana Applied & Educational Oil Spill Research & Development Program

ADMINISTRATOR • Davis
OFFICE • 258A&B Military Science Building
TELEPHONE • 225-578-3481
FAX • 225-578-0403
E-MAIL • don.lsu.davis@gmail.com
WEB SITE • www.osradp.lsu.edu

Louisiana Applied & Educational Oil Spill Research & Development Program (OSRADP), under the authority of the Louisiana Oil Spill Coordinator, is outlined in R.S. 30:2495 of the Oil Spill Prevention and Response Act (Act 7) that provides funds annually for applied oil spill research.

Through an interagency agreement between the Louisiana Oil Spill Coordinator's Office and LSU, the program is administered by the University's Center for Energy Studies. Working within the program's protocols and guidelines, LSU is authorized to provide subcontracts or letter agreements through the OSRADP administrator to Louisiana's 19 eligible public institutions of higher education for a broad array of research initiatives.

With the OSRADP, Louisiana has established a mechanism whereby its public colleges and universities can apply for the necessary financial resources to conduct research on oil spill-related matters. Through coordination and cooperation with industry, government, and the University community, the program's research mission has promoted scientific endeavors that are affordable, applied in nature, and designed to guarantee that research is relevant to oil spill-related concerns in Louisiana.

Louisiana Geological Survey

DIRECTOR/STATE GEOLOGIST/PROFESSOR-RESEARCH • John
OFFICE • 3079 Energy, Coast & Environment Bldg.
TELEPHONE • 225-578-5320
FAX • 225-578-3662
WEB SITE • www.lgs.lsu.edu

The modern *Louisiana Geological Survey* (LGS) began operations at LSU in 1931 and was officially established in 1934 by the Louisiana Legislature under state legislative Act 131. The LGS is currently part of LSU and administratively reports through the executive director of the LSU Center for

Energy Studies to the vice chancellor of Research & Economic Development.

The LGS carries out applied and fundamental geologic research in the areas of Louisiana's surface and subsurface geology, coastal geology and processes, petroleum geology, environmental geology, mineral resources, and ground water. LGS does statewide geologic mapping, producing maps and reports designed to encourage both economic development and environmental protection. The LGS also studies geologic hazards, including active faulting, producing maps and reports designed to identify such hazards and to minimize their impacts. Earth science educational materials are provided to school teachers when requested. The LGS works cooperatively on research grants and contracts with several state and federal agencies including the Department of Natural Resources, the Department of Transportation & Development, the Office of Emergency Preparedness, the U.S. Geological Survey, and the U.S. Department of Energy.

The *Basin Research Energy Section* of the LGS includes stratigraphic research laboratories; a computer/plotting laboratory; petrographic laboratories equipped for thin-section preparation and carbonate and siliciclastic studies; and conference rooms and storage space. A separate well-log library, a core storage facility with a work lab equipped with saws, and other core processing and photographic equipment are located nearby on campus. The LGS core repository and well log library (called the LGS Resource Center) are an integral part of the *Louisiana Museum of Natural History*. Access to other laboratory facilities for geochemical, isotope, SEM, EM, XRD, sedimentology, and paleontological analyses is available in the nearby Department of Geology & Geophysics.

The LGS has a well-recognized cartography section that produces maps, atlases, illustrations, slides, LGS publications and exhibits, both in support of LGS research and for other LSU departments and state agencies. The LGS cartography section, well equipped with computer equipment, plotters, and GIS facilities, has produced several maps, including the official state map of Louisiana, an oil and gas map, and a Louisiana Shoreline Change map, 1937-2000. Several maps designed and produced by the LGS Cartographic Section have won national awards.

In performing its applied mission and tasks the LGS is also charged with effectively transferring geological information to the citizens of the state through the production of maps, bulletins, reports, newsletters, sponsored short courses, professional presentations, and publications. The LGS receives and answers a large number of inquiries from the public related to geologic matters, and its publications are available for sale at nominal prices.

Minerals Processing Research Division

DIRECTOR • Pike
OFFICE • 1139 Energy, Coast & Environment Bldg.
TELEPHONE • 225-578-3428
FAX • 225-578-1476
WEB SITE • www.mpri.lsu.edu

The *Minerals Processing Research Division*, supported by funds from federal and state agencies and private organizations, was established at LSU in 1979. The institute conducts research on minerals processing, related business and legal issues, and environmental matters.

This research is directed at the chief minerals in the state and region: oil and natural gas, sulfur, salt, and lignite. These mineral resources are among Louisiana's most valuable assets.

Radiation Safety Office

DIRECTOR • Wang
OFFICE • 112 Nuclear Science Building
TELEPHONE • 225-578-2008
FAX • 225-578-2094
WEB SITE • www.radsafety.lsu.edu

Authorization for Louisiana State University and Agricultural & Mechanical College to possess, store, and use sources of radiation is stipulated in a broad-scope Radioactive Material License issued by the Louisiana Department of Environmental Quality, which has vested responsibility from the United States Nuclear Regulatory Commission within the State of Louisiana. The broad-scope license allows the University maximum flexibility in the use of sources of radiation for teaching and research activities through the operation of an internal radiation safety and control program. Administrative authorization from the University is contained in Permanent Memorandum-30 (PM-30). Under the direction and supervision of the Radiation Safety Committee, the Radiation Safety Office is responsible for implementing radiation control policies and ensuring safe practice in order not only to be fully in compliance with the federal and state regulations, but also to assure individual well-being and the integrity of the University.

Approval of the Radiation Safety Office must be obtained for all procurement of radioactive materials and radiation producing equipment, all teaching and laboratory uses, research and development projects, as well as any other activities with potential radiological hazards, all contracts and grant proposals involving sources of radiation, all personnel who will directly use sources of radiation, and all facilities, construction, outfitting, and renovation involving sources of radiation.

The radiation protection program is conducted in such a manner so that radiation exposure to faculty, staff, students, the general public, and the environment will be maintained as low as reasonably achievable and that no radiation exposure will be received without societal benefit. This will be accomplished without hindering legitimate research or realistic teaching objectives. Professional health physicists equipped with a full spectrum of state-of-the-art radioanalytical instrumentation as well as high energy irradiation and neutron activation facilities are available for consultation and research radiation to support a broad range of radiation applications.

CENTER FOR GEOINFORMATICS

DIRECTOR • Dokka
OFFICE • Engineering Research & Development
Bldg., 2nd Floor, South Stadium Drive
TELEPHONE • 225-578-4578
FAX • 225-578-4502
WEB SITE • www.c4g.lsu.edu
E-MAIL • rkdokka@c4g@lsu.edu

The *Center for Geoinformatics* operates and maintains GULFNET, the 3-D positioning infrastructure that defines the National Spatial Reference System in Louisiana. The center is a national force in expanding and strengthening the university, commercial, and public-sector geospatial communities within the state of Louisiana and the U.S. It provides the advanced geospatial information applications, products, training, and commercialization expertise that are required to support economic development and environmental stewardship.

CENTER FOR BIOMODULAR MULTI-SCALE SYSTEMS

DIRECTOR • Soper
OFFICE • 8000 GSRI Ave., Bldg. 3100 (LSU S. Campus)
TELEPHONE • 225-578-1527
FAX • 225-578-3458
WEB SITE • http://cbm2.lsu.edu
E-MAIL • chsoper@lsu.edu

The Center for BioModular Multi-Scale Systems (CBM²) is a multidisciplinary center for the development of micro-/nano-scale devices with applications in medical diagnostics, forensics, drug discovery and homeland defense, and is funded by grants from National Science Foundation, Louisiana Board of Regents, National Institutes of Health and others. In addition to its primary research mission, CBM² also supports active Education/Outreach and Industrial Partnership programs.

Headquartered on LSU's South Campus, CBM² is a collaboration of leading research Universities throughout Louisiana and the nation, including LSU (including CAMD), LSU Health Science Center, Tulane Health Sciences Center, Xavier University of Louisiana, Weill Medical College of Cornell University, Baylor College of Medicine, and the Sloan-Kettering Research Institute.

INTELLECTUAL PROPERTY, COMMERCIALIZATION & DEVELOPMENT

ASSOCIATE VICE CHANCELLOR • Kelleher
OFFICE • 206 Louisiana Emerging Technology Center
TELEPHONE • 225-615-8967
FAX • 225-615-8965
WEB SITE • www.lsu.edu/intellectual_property
E-MAIL • oip@lsu.edu

The objective of LSU's *Office of Intellectual Property, Commercialization & Development* (OIP) is to commercialize the University's intellectual property—new ideas, inventions, and discoveries. This includes obtaining patents and copyrights and seeking licensees and business partners in the U.S. and worldwide to commercialize that technology

for the benefit of society, the University, and the inventors.

INTERCOLLEGE ENVIRONMENTAL COOPERATIVE

DIRECTOR • Dellinger
OFFICE • 413 Choppin Hall
TELEPHONE • 225-578-6759
FAX • 225-578-0276
WEB SITE • www.iec.lsu.edu
E-MAIL • co-op@lsu.edu

The mission of the Intercollege Environmental Cooperative is to facilitate collaborative relationships that span traditional college and disciplinary boundaries and enhance the research, teaching, and public outreach that is necessary to address effectively today's complex second and third generation environmental stakeholders, decision makers, and research sponsors throughout the state, region, and nation.

The Intercollege Environmental Cooperative provides a platform for multidisciplinary and interdisciplinary collaboration among LSU researchers and their partners, improves communication and exchange of ideas among environmental researchers and educators across traditional departmental and college/school boundaries, and works to establish ties with industrial organizations that can benefit from increased interaction with LSU on environmental issues.

J. BENNETT JOHNSTON, SR., CENTER FOR ADVANCED MICROSTRUCTURES & DEVICES

INTERIM DIRECTOR • Kurtz
OFFICE • 6980 Jefferson Hwy.
TELEPHONE • 225-578-8887
FAX • 225-578-6954
WEB SITE • www.camd.lsu.edu
E-MAIL • rlkurtz@lsu.edu

The *J. Bennett Johnston, Sr., Center for Advanced Microstructures & Devices* (CAMD) was initiated by a grant from the Department of Energy in 1988. At the heart of the center is a 1.3 GeV electron storage ring. This high-energy electron accelerator produces a broad spectral range, from infrared to X-rays, of very bright and intense electromagnetic radiation, that can be used by researchers for a variety of applications.

Among these are fabrication of extremely small (sub-micon features) electronic and mechanical devices, using X-ray lithography; spectroscopic investigations of atoms, molecules, solids, and surfaces; and analytical applications for determining the structure and elemental composition of materials.

LIFE COURSE AND AGING CENTER

DIRECTOR • Cherry
OFFICE • 236A Audubon Hall
TELEPHONE • 225-578-4099
FAX • 225-578-4125
WEB SITE • www.lsuagingstudies.com
E-MAIL • pskatie@lsu.edu

By the year 2020, more than 20 percent of the population is expected to reach the age

of retirement. With the increase in the number of older adults living in Louisiana, there will be a greater need to ensure the successful aging of the population of our state. The Life Course and Aging Center recognizes that successful aging begins at birth and continues through the rest of our lives. Therefore, its researchers are committed to identifying the keys to successful aging and educating the public about these important issues.

Its mission is to promote collaborative research activities across many fields including the biological, social, and psychological sciences, develop life course and aging education and curriculum, and collaborate with child and senior service organizations throughout the state. Its faculty members represent six colleges and 14 departments and programs at LSU. Areas of research include cognitive processes and aging, early childhood development, education across the lifespan, interpersonal relations across the lifespan, lifespan development and public policy, physical processes and aging, and sociological aspects of aging.

LOUISIANA SPACE CONSORTIUM

DIRECTOR • Wefel
OFFICE • 364 Nicholson Hall
TELEPHONE • 225-578-8697
FAX • 225-578-1222
WEB SITE • http://laspace.lsu.edu

The *Louisiana Space Consortium* (LaSPACE), supported by funds from the National Aeronautics & Space Administration and the Louisiana Board of Regents, is a group of Louisiana institutions of higher education working with the two state educational boards, business/industry, nonprofit organizations, and a local government partner.

The goal of LaSPACE is to enhance space and aerospace related research, technology, education, and public awareness throughout the state and to promote mathematics and science education, workforce development of aerospace professionals, diversity, and economic development. This goal is accomplished through competitive awards to researchers, fellowships for graduate students, mentored research assistantships for undergraduates, outreach to K-12 teachers and students, and public awareness events. LaSPACE is Louisiana's representative to the National Network of Space Grant Consortia, a congressionally mandated federal/state partnership that is administered by NASA. This national network encompasses every state in the nation plus Puerto Rico and the District of Columbia.

SEA GRANT DEVELOPMENT

EXECUTIVE DIRECTOR • Wilson
OFFICE • 239 Sea Grant Building
TELEPHONE • 225-578-6710
FAX • 225-578-6331
WEB SITE • www.laseagrant.org

The *Louisiana Sea Grant College Program* is part of the National Sea Grant College Program, a congressionally mandated federal/state endeavor that is administered by the National Oceanic & Atmospheric Administration (NOAA) of the U.S. Depart-

ment of Commerce. The national program network includes 32 lead institutions and consortia, based in coastal and Great Lakes states, involving more than 250 U.S. colleges, universities, laboratories, and private entities in research, training/education, technology transfer, and advisory service activities focused on coastal and marine problems.

LSU's *Office of Sea Grant Development* is responsible for administering all activities approved by NOAA for Sea Grant funding in Louisiana. The mission of the Louisiana program is to provide knowledge, trained personnel, and public awareness needed to wisely and effectively develop and manage coastal and marine areas and resources in a manner that will assure sustainable economic and societal benefits. This goal is pursued by supporting and developing selected capabilities in the Louisiana university community and, as appropriate, drawing on those in the national program network. The work requires:

- designing and conducting research, technology transfer, extension, and educational activities involving a broad range of natural science, engineering, economic, legal, public policy, and sociological expertise, and
- extensive cooperation with pertinent federal, state, business, and citizen groups. Providing a base of fundamental research and bringing the results to the market by enhancing existing businesses and growing new businesses are key program elements.

The Louisiana Sea Grant NOAA-funded core program supports individual projects at universities throughout Louisiana. These projects typically support graduate students, as well as provide undergraduate students with the opportunity to work on research-related activities. There is also an annual, national competition for approximately 50 Sea Grant Marine Policy Fellowships that provides selected graduate students a unique opportunity to spend a year working in host offices of the U.S. Congress, federal agencies, or associations/institutions located in the Washington, D.C., area. Core program activities are supplemented with projects funded by various federal and state agencies that have mutual goals and interests. Private sector support for the program is exemplified by the John P. Laborde Endowed Chair for Sea Grant Research and Technology Transfer that brings highly qualified scientists to LSU for periods from one semester to two years to work on marine and coastal issues identified as critical to Louisiana.

In 1978, LSU was named a Sea Grant College—the 13th university in the nation to be so designated and the highest classification attainable in the program. This status was reaffirmed by national performance evaluation teams in 2006. LSU is presently one of only 21 universities in the U.S. designated as a land-grant, space-grant, and sea-grant institution.

SPONSORED PROGRAMS

EXECUTIVE DIRECTOR • Bates
OFFICE • 202 Himes Hall
TELEPHONE • 225-578-2760
FAX • 225-578-2751
WEB SITE • www.lsu.edu/osp
E-MAIL • osp@lsu.edu

The *Office of Sponsored Programs*, an administrative unit of the Office of Research and Economic Development, provides advice and support to the LSU community in the acquisition and administration of externally funded projects to further the instruction, research, and public service mission of the University. The office provides institutional endorsement for proposals, negotiates terms and conditions of awards with sponsors, executes agreements on behalf of the institution, prepares and negotiates subawards, processes requests for security clearances, and controls all classified documents. The office also conducts seminars and workshops on federal, state, and institutional requirements; proposal development; and project management.

OFFICE OF ACADEMIC AFFAIRS

PROVOST AND EXECUTIVE
VICE CHANCELLOR • Merget
OFFICE • 146 Thomas Boyd
TELEPHONE • 225-578-8863
FAX • 225-578-5980
WEB SITE • aaaweb.lsu.edu
E-MAIL • acaf@lsu.edu

CENTER FOR COMMUNITY ENGAGEMENT, LEARNING & LEADERSHIP

OFFICE • B-31 Coates Hall
TELEPHONE • 225-578-9264
FAX • 225-578-2696
WEB SITE • www.ccell.lsu.edu

The *Center for Community Engagement, Learning & Leadership* (CCELL) promotes service-learning, a cornerstone of LSU's structured approach to community engagement designed to advance learning outcomes and develop leaders who practice their discipline with the highest sense of civic responsibility.

CCELL facilitates educational experiences in which students take part in credit-bearing, organized service activities that meet community needs. Service-learning offers students "hands-on" learning, allowing them to help others, gain a deeper understanding of course material, improve their leadership skills, acquire greater self-knowledge, and increase their sense of connection to the community.

CCELL provides a number of services to faculty who are engaged in service-learning, such as assisting in the recruitment of community-based partners; consulting with faculty in syllabus design, course development, and grant-writing; and functioning as a liaison between faculty and their community partners. The Service-Learning Advisory Council,

comprised primarily of senior LSU faculty with student and community representation, articulates and promotes the objectives of CCELL. The council develops strategies and provides leadership to advance service-learning funding, curriculum development, and scholarship.

COMMUNICATION ACROSS THE CURRICULUM (CxC)

DIRECTOR • Liggett
OFFICE • 208 Coates Hall
TELEPHONE • 225-578-7795
FAX • 225-578-6973
WEB SITE • www.cxc.lsu.edu
E-MAIL • cxc@lsu.edu

Communication across the Curriculum (CxC), established in 2004 with a generous gift from LSU engineering alumnus Gordon Cain, helps undergraduates become more sophisticated communicators using the written word, speech, visual images, and digital communication.

Through direct work with students, faculty members, departments, and colleges, as well as through its Web site, CxC provides students with the following:

- increased opportunities for building communication skills in courses
- direct assistance on assignments and access to advanced software and equipment in Communication Studios
- a Distinguished Communicator certification program, including building digital portfolios of communication work
- models of outstanding communication, especially by LSU students
- opportunities for leadership and career development
- connections between communication and service-learning
- public recognition of outstanding student communication

Students who complete

Communication-Intensive (C-I) classes will receive a special designation for each class on their transcripts. Students who meet high standards in communication in multiple C-I classes and build an exemplary digital portfolio will be recognized at graduation and on their transcripts as Distinguished Communicators.

CxC provides faculty the following services:

- fall and spring workshops on teaching Communication-Intensive (C-I) courses
- summer institutes on building or redesigning C-I courses
- sample syllabi and communication assignments from faculty at LSU and other universities and examples of excellent student projects
- mini-grants and travel for the development of C-I courses
- a venue for publishing research on the intersection of scholarship and the work of CxC
- a speaker series, awards, and other public acknowledgment of communication work in the classroom

A CxC Advisory Council, comprised of members from across the disciplines and administrative offices on campus, has been established by the Provost. The Advisory

Council, in consultation with the appropriate committees on campus, has developed criteria for certifying courses as Communication-Intensive (C-I) and for certifying students who meet high standards of communication. A C-I course is built around the following components: significant writing, significant speaking, and uses of visual communication and technology for communication. Criteria for students seeking recognition for high standards of communication include building a digital portfolio that showcases a student's examples of writing, speaking, use of communication technology, and visual communication.

INFORMATION TECHNOLOGY SERVICES

VICE CHANCELLOR • Voss
OFFICE • 200 Frey Computing Services Center
TELEPHONE • 225-578-3700
FAX • 225-578-6400
WEB SITE • www.lsu.edu/its
E-MAIL • itsinfo@lsu.edu

LOUIS: The Louisiana Library Network

EXECUTIVE DIRECTOR • Boë
OFFICE • 200 Frey Computing Services Center
TELEPHONE • 225-578-3740
FAX • 225-578-3709
WEB SITE • louis.lsu.edu

The Louisiana Library Network combines the resources of Louisiana's public and private academic libraries, along with a centralized support staff located on the LSU campus, to produce a dynamic library consortium. The central support staff, commonly referred to as "LOUIS," provides many services to consortium members such as library automation, a union catalog, a digital library, electronic resources, authentication, training, consulting, and hosting related listservs and Web sites. Established in 1992 by the Board of Regents, LOUIS has 43 members and receives approximately \$3.5 million annually in contracts and membership fees to support consortium members.

University Networking and Infrastructure

EXECUTIVE DIRECTOR/DEPUTY CIO • Simmons
OFFICE • Frey Computing Services Center
TELEPHONE • 225-578-5212
FAX • 225-578-3709

LSU University Networking and Infrastructure is responsible for the campus voice and data networks, messaging, back office server support, infrastructure, and a Network Operations Center (NOC).

Network facilities include 2,100 wireless access points, extensive fiber and copper infrastructures that support 30,000 network nodes, 14,000 telephone ports and a core data network capable of transmitting up to 30Gigabits per second. LSU is a member of Internet2, SURAgrid, and the Louisiana Optical Networking Initiative and has been designated a vBNS Authorized Institution by the National Science Foundation.

Back office server operations provide enterprise level support for Microsoft Windows server platforms including SQL

servers, IIS, Exchange and Active Directory in support of campus wide applications.

The Network Operations Center (NOC) provides uninterrupted operational, production control and monitoring services 24 hours a day, 365 days per year. The NOC monitors mainframe services and applications, campus network equipment and services, network traffic, network security systems as well as all external connections to the LSU network.

University Information Systems

EXECUTIVE DIRECTOR/DEPUTY CIO • Hadden
OFFICE • Frey Computing Services Center
TELEPHONE • 225-578-3700
FAX • 225-578-6400
WEB SITE • www.lsu.edu/uiss

University Information Systems (UIS) is responsible for the development and maintenance of comprehensive management information systems for the University. UIS has developed and installed more than 50 major applications, including registration, degree audit, admissions, payroll, general ledger, and financial aid.

The division is also responsible for Personal Access Web Services (PAWS), a Web-based portal available to all students, faculty, and staff. Each individual's portal is unique and is customized to reflect the individual's relationship to the University. Further, each portal dynamically adapts in real-time when this relationship changes. Services accessed through the PAWS portal include enterprise, workgroup, and personal applications that meet the specific administrative, academic, and research needs of each PAWS user. Some of the most widely used PAWS applications include: e-mail, registration, degree audit, grade inquiry, financial aid inquiry, library collections, and course tools.

The division includes System Programming; IS Architectures; HR/Financial Applications; Student and Research Applications; and Portals of Business Intelligence.

User Support and Student IT Enablement

EXECUTIVE DIRECTOR/DEPUTY CIO • Childs
OFFICE • Frey Computing Services Center
TELEPHONE • 225-578-3700
FAX • 225-578-6400
WEB SITE • www.lsu.edu/uss

User Support and Student IT Enablement (USS) serves as the primary campus interface for information technology services at LSU. Located in the Frey Computing Services Building and in the Middleton Information Commons, the Help Desk, Print Desk, Adaptive Technology Services, Faculty Technology Center, and the Visualization Services Center provide both walk-up and telephone technical assistance to faculty, staff, and students. IT training and education opportunities are offered on a variety of introductory and advanced topics, in addition to customized training upon request. The GROK Knowledge Base (grok.lsu.edu) serves as an on-line repository of the latest campus technical information, as well as an FAQ of

common computing questions and answers. TigerWare (tigerware.lsu.edu) is LSU's on line software warehouse, where faculty, staff, and students can download both freeware and institutionally licensed software. USS also maintains and supports the computing labs and multi-media classrooms located prominently throughout campus, where faculty and students have access to both Windows and Macintosh computers and instructor stations loaded with the latest general use and discipline-specific software programs. USS also provides technical assistance to departments via its Departmental Services and topic-based IT forums each semester.

GORDON A. CAIN CENTER FOR SCIENTIFIC, TECHNOLOGICAL, ENGINEERING & MATHEMATICAL LITERACY

INTERIM DIRECTOR • Wischusen
CO-DIRECTORS • Kirshner, Madden, McAnelly, Neubrandner, Wischusen
OFFICE • 222 Prescott Hall
TELEPHONE • 225-578-6001
FAX • 225-578-4522
WEB SITE • www.cain.lsu.edu
E-MAIL • caincenter@lsu.edu

The *Cain Center for Scientific, Technological, Engineering, & Mathematical Literacy* provides support for Louisiana educators who are working to prepare citizens who are literate in the science, technology, engineering, and mathematics disciplines to support 21st century economic and societal needs. The center fosters cross-disciplinary collaborations made possible through its joint sponsorship by the Colleges of Arts & Sciences, Basic Sciences, Education, and Engineering.

- The goals of the center include:
- providing leadership for interdisciplinary research and development in the teaching and learning of the science, technology, engineering, and mathematics disciplines at all educational levels;
 - disseminating research and practice that leads to high student achievement, especially in the science, technology, engineering, and mathematics disciplines;
 - creating opportunities for collaboration across disciplines and with K-12 educational practitioners in investigating, developing, and implementing strategies for enhancing teaching and learning in the science, technology, engineering, and mathematics disciplines; and
 - influencing policy concerning the teaching and learning of the science, technology, engineering, and mathematics disciplines.

FACULTY FELLOWS PROGRAM

DIRECTOR • Eubanks
OFFICE • 208 Stubbs Hall
TELEPHONE • 225-578-0841

Created in the fall of 2008, the *Faculty Fellows Program* is designed to encourage scholarly teaching and learning across the campus. Those chosen to be Faculty Fellows are notable teachers who conduct workshops on teaching, particularly for young faculty; provide colleges and departments with

information and resources for enhancing both teaching and learning; facilitate the development of teaching mentor programs; and provide counsel to those who wish to improve their teaching experiences. The Faculty Fellows Program also administers the Teaching Enhancement Fund (funded by Campus Federal), which grants monies to University faculty who wish to attend teaching conferences or otherwise enhance their teaching expertise.

LSU LIBRARIES

DEAN • Cargill, Joel and Kathleen Ory Professor
OFFICE • 295 Middleton Library
TELEPHONE • 225-578-2217
FAX • 225-578-6825
WEB SITE • www.lib.lsu.edu

The *LSU Libraries* offer students and faculty strong support for instruction and research through collections containing more than three million volumes, microform holdings of more than five million, and a manuscript collection of more than 12 million items. LSU is part of the Louisiana Online University Information System (LOUIS). The library catalogs of most universities in the state are accessible online. Periodical databases and full text journal articles can also be retrieved through the network. The *LSU Libraries'* subject strengths include Louisiana materials, sugar culture and technology, Southern history, agriculture, petroleum engineering, plant pathology, natural history, and various aspects of aquaculture including crawfish, wetlands research, and marine biology.

The *LSU Libraries* belong to the prestigious Association of Research Libraries, which include the top 113 academic libraries in the U.S. and Canada, the Association of Southeastern Research Libraries, the Southeastern Library Network, and the Louisiana Academic Library Information Network Consortium. Middleton Library is the main library, with special collections housed in the adjacent Hill Memorial Library.

The open-shelf arrangement of the main collection in Middleton Library makes material completely accessible; assistance is offered through Reference Services and the periodical desk on the first floor. Information regarding library services, such as the electronic databases and journals and bibliographic instruction, may be obtained from the Reference Desk and through the library Web site.

Other features of Middleton Library are audio workstations for accessing music and a microforms area. Self-service photocopying machines are available at a nominal cost. When material not found in the Libraries is needed for research, faculty, staff, and students may borrow it through interlibrary borrowing.

LSU Libraries now houses a CC's Coffee Shop open during core hours when Middleton Library usage is at its peak. A faculty technology center is now located near the back of Middleton Library offering technology support to faculty members. Opening soon: a tutoring center, to be located in 141 Middleton, in the rear section of Reference Services. The tutoring will focus on subject specific tutoring.

LSU Libraries' U.S. Regional Depository Library collection, the United Nations documents collection, and the U.S. Patent Depository Library collection are housed in Middleton Library. The Library has been a depository for publications of the federal government since 1907 and has a substantial portion of the U.S. documents issued before and after that time. In 1964, the Library became a Regional Depository Library. The holdings of United Nations publications date from the establishment of the United Nations in 1947. In 1981, the Library was designated an official depository for U.S. Patents. The patent collection includes all patents issued from 1871 to the present. The department also has an extensive collection of scientific and technical reports from the U.S. Department of Energy, the National Aeronautics and Space Administration, and the National Technical Information Service.

The *LSU Libraries Special Collections* in Hill Memorial Library provide a center for research in the humanities, social sciences, and fine arts. The primary strength of *Special Collections* resides in *The Louisiana and Lower Mississippi Valley Collections*, an outstanding integrated collection that consists of materials documenting the history and culture of the region. It provides rare and early imprints pertaining to the exploration and colonization of the region; books on Louisiana subjects; books by Louisiana authors; Louisiana state documents; extensive and prestigious manuscript collections, which include the personal papers of important individuals in the history of the region, including the Long family; records of businesses, professions, and organizations; and extensive photographic collections.

University Archives, administered by *Special Collections* and housed in Hill Memorial Library, is the official repository for all permanent noncurrent records of academic and administrative units of the University. In addition, the *University Archives* is the office on campus charged with records management duties.

The Rare Book Collections is wide-ranging and eclectic in nature, with concentrations in 18th century English literature and history; book arts and the history of the book, including the Bruce Rogers Collection; New World exploration and travel; economic history; and science fiction and fantasy.

The E. A. McIlhenny Natural History Collection was donated to the *LSU Libraries* in 1971, in memory of Edward Avery McIlhenny, whose private library forms the core of the collection. Rich in ornithological and botanical art, it is an exceptional resource for researchers in the history of those fields. High points in this collection include James Audubon's double-elfant folio *Birds of America*, and the "Native Flora of Louisiana" collection of original watercolor drawings by internationally renowned botanical artist Margaret Stones.

The *T. Harry Williams Center for Oral History* and the *United States Civil War Center* are also administered as part of the *Special Collections* but are located in the Agnes Morris House on Raphael Semmes Drive. The *Center for Oral History* was established 1991 as an interdisciplinary program that supports and encourages the

collection, preservation, and dissemination of the social, political, cultural, and economic history of Louisiana through the use of tape-recorded interviews. Tapes and transcripts generated by the program and its affiliated researchers are deposited in the *Louisiana and Lower Mississippi Valley Collections*.

The *United States Civil War Center* was created in 1993. The center's mission is to promote the study of the Civil War from the perspectives of all professions, occupations, and academic disciplines. Projects and programs include a clearinghouse Web page and the *Civil War Book Review*.

LSU MUSEUM OF ART

EXECUTIVE DIRECTOR • Livesay
OFFICE • Shaw Center for the Arts
TELEPHONE • 225-389-7200
WEB SITE • www.lsumoa.com

The *LSU Museum of Art (LSU MOA)* is the premier art museum in Baton Rouge. Located downtown in the Shaw Center for the Arts overlooking the Mississippi River, *LSU MOA* offers visitors a wide range of art exhibitions. The 4000-work collection is highlighted in galleries of American and British portraiture, decorative arts, landscape painting, New Orleans Coin Silver, Newcomb Pottery, and Chinese Jade as well as contemporary Louisiana and American painting. *LSU MOA* also presents special exhibitions of paintings, sculpture, works on paper, and photography to the local art public. There is something for everyone at *LSU MOA*.

Museum hours are 10 a.m. to 4 p.m. on Tuesday through Saturday and 1 p.m. to 5 p.m. on Sunday. Closed on major holidays. The museum has an admission fee. More information can be found at www.lsumoa.com.

LOUISIANA MUSEUM OF NATURAL HISTORY

CONTACT PERSON • Hafner
OFFICE • 119 Foster Hall
TELEPHONE • 225-578-3083
FAX • 225-578-3075
WEB SITE • www.lsu.edu/museum

The *Louisiana Museum of Natural History*, the official state museum of natural history, consists of 16 major research collections located on the *LSU* campus. Together, these collections hold a total of more than 2.8 million specimens, objects, and artifacts that document the rich natural history of Louisiana, the central-Gulf region, and the world. These collections are dispersed among six independently administered units on campus, and include the *Vascular Plant Herbarium*, the *Mycological Herbarium*, the *Lichen Herbarium*, the *Log Library & Core Repository*, the *Louisiana State Arthropod Museum*, the *Center for Excellence in Palynology*, the *Gems & Minerals Collection*, the *Textile & Costume Museum*, and eight collections of the *Museum of Natural Science* (the *Collection of Amphibians & Reptiles*, the *Collection of Birds*, the *Collection of Fishes*, the *Collection of Genetic Resources*, the *Collection of Mammals*, the *Vertebrate*

Paleontology Collection, the *Collection of Fossil Protists & Invertebrates*, and the *Ethnology-Archaeology Collection*.

The collections of the *Louisiana Museum of Natural History*, used actively for education, research, display, and public service, represent an important historical trust for future generations of Louisiana's citizens. Details about each collection, including educational and exhibits programs, can be obtained by contacting the curator-in-charge of the collection (see individual listings) or by visiting the museum's Web site.

OFFICE OF ASSESSMENT & EVALUATION

DIRECTOR • Matthews
OFFICE • 51 Himes Hall
TELEPHONE • 225-578-1145
FAX • 225-578-5789
WEBSITE • www.oae.lsu.edu

The Office of Assessment & Evaluation (OAE) offers both theoretical and practical measurement support and services to the University community, including the following:

- Consultation on tests, measurements, program evaluation, and assessment of student learning outcomes
- Administration of the *University Assessment Matrix*, including design of formats for assessment of student learning in academic degree programs
- Review and assessment of the University's General Education Program
- Administration of computer-based testing for LSU courses
- Administration of course placement and advanced-standing credit assessments
- Large-scale and localized test development, administration, statistical analysis, and score reporting
- Electronic test scoring, statistical analysis, and reporting of data gathered via machine-scannable forms
- Custom survey design, production, statistical analysis, and reporting in both scan and computer-based modes
- Development and implementation of experimental designs employing qualitative methodologies such as focus groups and group interviews
- Administration of programs for *student teaching evaluations* of faculty
- Coordination of large-scale national surveys and assessments for institutional effectiveness
- Computer-based testing for externally-based entrance and proficiency examinations

RURAL LIFE MUSEUM AND WINDRUSH GARDENS

DIRECTOR • Floyd
OFFICE • 4560 Essen Lane
TELEPHONE • 225-765-2437
FAX • 225-765-2639
E-MAIL • rulife1@lsu.edu

The *Rural Life Museum*, an outdoor museum complex, is located approximately five miles from campus on the University's 450-acre Burden Research Plantation. Open daily, this unique outdoor museum is divided into three areas. *The Barn* contains hundreds

of artifacts dealing with everyday rural life dating from prehistoric times to the early 20th century. *The Plantation* consists of a complex of buildings, commissary, overseer's house, kitchen, slave cabins, sick house, schoolhouse, blacksmith's shop, sugarhouse, and grist mill, authentically furnished to reconstruct all the major activities of life on a typical 19th century sugarcane plantation. *Louisiana Folk Architecture* is exemplified in seven buildings, a country church, a pioneer's cabin and corn crib, potato house, shotgun house, Acadian house, and a dogtrot house, whose divergent construction traits illustrate the various cultures of Louisiana settlers.

Adjacent to the museum are the *Windrush Gardens*, designed and planted by the late Steele Burden. This five acre expanse of semiformal gardens with winding paths and open areas is reminiscent of 19th century Louisiana gardens. The museum and gardens are open daily from 8:30 a.m. to 5 p.m. Admission is charged.

LSU PRESS

DIRECTOR • Callaway
OFFICE • 3990 West Lakeshore Drive
TELEPHONE • 225-578-6294
FAX • 225-578-6461
WEB SITE • www.lsu.edu/lsupress

Founded in 1935 as an integral part of the plan to expand and improve Louisiana State University, the LSU Press quickly established itself as a major publisher of books about the South. As one of the outstanding scholarly publishers in the country and the only academic publisher in the state, LSU Press remains committed to publishing the best books, books that will inform, educate, and enlighten readers. A nonprofit institution, the LSU Press's publishing list is mission driven, not profit driven.

Without LSU Press, many classic works might never have been published. Our list of more than 2000 books includes the monumental *A History of the South: The Encyclopedia of Southern History*, *The History of Southern Literature*, *The Complete Works of Kate Chopin*, *The Collected Poems of Robert Penn Warren*, *The Papers of Jefferson Davis*, and *A Confederacy of Dunces*.

LSU Press publishes approximately 80 new books a year by authors from our region and around the world. Our global publishing perspective ensures that we continue to be recognized for distinguished publishing in the areas of southern history, Atlantic studies, southern literature, the Civil War, poetry, fiction, jazz studies, environmental studies, media studies, African American studies, and Louisiana and the Gulf South region.

Our books are published to rigorous standards, including approval by the Faculty Senate University Press Committee, which is composed of eight faculty members.

NATIONAL CENTER FOR SECURITY RESEARCH & TRAINING

EXECUTIVE DIRECTOR • Fernandez
OFFICE • 3160 Pleasant Hall
TELEPHONE • 225-578-3299
FAX • 225-578-9119
WEB SITE • www.lsu.edu/ncsrt

The *National Center for Security Research & Training* (NCSRT) has been established to coordinate efforts in security research and training. The University is currently a leader in providing training on anti-terrorism and counter-terrorism techniques and regularly supports projects initiated by state and federal law enforcement agencies. The purpose of the center is to:

- establish a coordinated, university-based system to promote interaction and collaboration toward the common objectives of safety and security;
- coordinate the activities of existing units that focus on security and emergency preparedness;
- create a collaborative structure that incorporates faculty expertise; and
- partner with private and public entities.

LSU Fire & Emergency Training Institute

DIRECTOR • Gleason
OFFICE • 6868 Nicholson Drive
TELEPHONE • 225-334-6300 or
800-256-3473
FAX • 225-334-6341
WEB SITE • feti.lsu.edu

The Fire & Emergency Training Institute (FETI) is Louisiana's leading agency in providing basic, advanced, and specialized training to fire fighters and emergency service providers. Training centers in Baton Rouge and Minden, combined with a regional staff, enables FETI to deliver nationally recognized courses to individuals, municipalities, the Department of Defense, and private industries in all areas of the state. Courses include instruction in aircraft, structural, marine, and OSHA-approved industrial firefighting, hazardous materials mitigation, and various specialized command and control courses developed at the National Fire Academy. The rescue program offers advanced courses in Urban Search and Rescue, basic rope, confined space rescue, and other specialized technical rescue courses.

Because of the increasing demand for pre-hospital advanced life support care, FETI's *Emergency Medical Services Program* has expanded its course offerings from basic emergency medical care to paramedic, advanced cardiac life support, and pediatric advanced life support. The paramedic course includes extensive study in subject areas including, but not limited to: intravenous/intraosseous therapy, pharmacology, cardiology, and endotracheal (advanced) airway management. The didactic component consists of 500 hours of lecture and lab, while the clinical component requires

630 hours of hospital and ambulance experience under the watchful eye of an assigned preceptor. Upon successful course completion, students are eligible to take the National Registry of EMTs' practical and written examination. Once registered, candidates may apply for State of Louisiana certification as an EMT-Paramedic. FETI is currently in the application process for national accreditation of the paramedic course.

The *Firefighter and Emergency Responder Certification Program* offers certification for career and volunteer firefighters at all levels based on the National Fire Protection Association Professional Qualification Standards. The certification procedure, which involves a practical and written evaluation process, is offered throughout the state, both on-demand and on predetermined test dates. The Certification Program is accredited by the International Fire Service Accreditation Congress (IFSAC) and the International Board on Fire Service Professional Qualifications (Pro Board). Additional information about the programs at FETI can be found on the Web site.

National Center for Biomedical Research & Training

DIRECTOR • Tucker
OFFICE • 3130 Pleasant Hall
TELEPHONE • 225-578-6757
FAX • 225-578-8973
WEB SITE • www.ncbrt.lsu.edu
E-MAIL • info@ncbrt.lsu.edu

The *National Center for Biomedical Research & Training* (NCBRT), *Academy of Counter-terrorist Education* (ACE) at LSU is a primary component of the National Center for Security Research & Training (NCSRT). The NCBRT is a national leader in the development and delivery of a wide range of training programs in the areas of homeland security, domestic and international terrorism, weapons of mass destruction, and high-consequence events. Since 1998, the NCBRT has developed more than 30 courses certified by the Department of Homeland Security for the emergency responder community. Course topics include: prevention and deterrence, tactical operations, law enforcement operations, emergency response to biological incidents, sampling, and agroterrorism, just to name a few. These courses are delivered year round by NCBRT adjunct instructors to law enforcement, fire and emergency personnel; medical and public health professionals; and local, state, and national law makers throughout the United States and its territories.

THE SOUTHERN REVIEW

EDITOR • Leiby
OFFICE • Old President's House
TELEPHONE • 225-578-5108
FAX • 225-578-5098
WEB SITE • www.lsu.edu/tsr
E-MAIL • southernreview@lsu.edu

The Southern Review, now in its second series, is a literary journal published quarterly under the editorship of Professor Jeanne Leiby. Founded in 1935 by Cleanth Brooks, Robert Penn Warren, Albert Erskine, and Charles Pipkin, *The Southern Review* publishes contemporary poetry, fiction, essays, and book reviews, as well as translations and reproductions of visual art. Subscriptions are \$40 a year for individuals and \$75 a year for institutions. Manuscripts (accompanied by SASEs) and subscription orders should be addressed to *The Southern Review*, Old President's House, LSU, Baton Rouge, Louisiana 70803. For more information visit the journal online at www.lsu.edu/tsr.

COLLEGE OF AGRICULTURE

DEAN • Koonce
OFFICE • 104 Agricultural Administration Building
TELEPHONE • 225-578-2362
FAX • 225-578-2526
WEB SITE • www.coa.lsu.edu

Louisiana State Arthropod Museum

DIRECTOR • Carlton
CURATOR • Bayless
OFFICE • 575 Life Sciences Building
TELEPHONE • 225-578-1838
FAX • 225-578-1643
WEB SITE • www.entomology.lsu.edu/lSAM
E-MAIL • ccarl@lsu.edu

The *Louisiana State Arthropod Museum* (LSAM), located in the Life Sciences Building, is a part of the Department of Entomology and a component collection of the *Louisiana Museum of Natural History*. The LSAM is the largest repository of insects and related arthropods in Louisiana. It houses approximately 1.2 million specimens, including 1 million pinned specimens, 100,000 fluid-preserved samples, and 30,000 microscope slides. One of the main strengths of the collection is a nationally significant beetle collection. In addition to preserving examples of the non-marine arthropod fauna of Louisiana, the LSAM's holdings include substantial numbers of specimens from elsewhere in the southern United States, Central and South America, and the Caribbean region.

The LSAM serves the research needs of Louisiana's scientific community by conserving voucher specimens generated by projects in agricultural entomology, bio-diversity, and conservation biology. It serves the needs of the public by providing identifications of insects and other

non-marine arthropods and by providing information about their habits and life histories. Specimen loans are made to qualified researchers throughout the world. The LSAM is not open to the general public and no exhibits are maintained, but requests for identifications and related information are welcome.

LSU Textile & Costume Museum

DIRECTOR • Rabalais-Vinci
OFFICE • 140 Human Ecology Building
TELEPHONE • 225-578-2403
FAX • 225-578-2697
WEB SITE • www.textilemuseum.huec.lsu.edu
E-MAIL • textile@lsu.edu

The *Textile & Costume Museum* offers changing exhibitions of regional, national, and international interest. Museum hours are 8 a.m. to 4:30 p.m., weekdays. The scope of the museum's more than 12,000 piece collection is global. Holdings include prehistoric and ethnic textiles and costume as well as contemporary high fashions and high-tech textiles. Types of items include apparel, accessories, household textiles, piece goods, books, patterns, and a variety of items related to textile and apparel production, use, and care. As part of the School of Human Ecology, the museum promotes conservation, research, teaching, and public service. Research includes studies of the technical, aesthetic, historic, and sociocultural significance of textiles and apparel. It is a component collection of the Louisiana Museum of Natural History at LSU.

The organization, Friends of the Textile & Costume Museum, supports the goals and functions of the museum by providing funds for purchases, exhibitions, workshops, and other activities throughout the year.

Public Management Program

HEAD • Naquin
OFFICE • 201 Old Forestry Building
TELEPHONE • 225-578-6645
FAX • 225-578-6473

The *Public Management Program* (PMP) serves as the research to practice affiliate for the Human Resource Education program within the School of Human Resource Education and Workforce Development. Incorporating research-based theory and current best practices, this unit offers a comprehensive array of human resource development activities to the public sector on a state, national, and international level. Specific activities include: training program design and delivery; strategic planning services; performance improvement on an individual, work group, and organizational level; process improvement; performance evaluation; adult literacy program development and delivery; curriculum design; program evaluation; organizational development strategies; workplace literacy program development and delivery; career development strategies; succession planning activities; and competency model development and

implementation. PMP offers seminars, consultation services, and in-service training programs through traditional classroom instruction as well as state-of-the-art technology-based collaborative learning methodologies. The unit also develops and publishes research quality documents (both internally and through peer review systems) on various governmental and organizational issues. These services are provided by Public Management staff and University professors.

This unit is designated as the sponsoring agency for the *Comprehensive Public Training Program (CPTP)*, a training and educational program authorized by the 1979 Louisiana Legislature. CPTP is designed to increase the skill and knowledge of state employees and nonelected officials.

COLLEGE OF ART & DESIGN

DEAN • Cronrath
OFFICE • 102 Design Building
TELEPHONE • 225-578-5400
FAX • 225-578-5040
WEB SITE • design.lsu.edu

Computer-Aided Design & Geographic Information Systems Research Laboratory

OFFICE • 216 Design Building
TELEPHONE • 225-578-6134
FAX • 225-578-5040
WEB SITE • cadgis.lsu.edu

The *Computer-Aided Design & Geographic Information Systems Research Laboratory (CADGIS)* is dedicated to education, service, and research in computer-aided design, geographic information systems, remote sensing, image processing, and other computer applications in the areas of art, architecture, disaster sciences, geography, anthropology, interior design, and landscape architecture. This multidisciplinary laboratory, operated jointly by the College of Art & Design and the Department of Geography & Anthropology, provides specialized support to academic and research units at LSU, to state and federal agencies, and to nonprofit organizations.

CADGIS has two instructional laboratories, one research laboratory, and seminar rooms with IP-based video conferencing capabilities. A wide range of software is available, as well as plotting and printing services.

Office of Community Design & Development

DIRECTOR • Cuddeback
OFFICE • 51 Atkinson Hall
STUDIO • 55 Atkinson Hall
TELEPHONE • 225-578-8347
FAX • 225-578-2168
E-MAIL • ocdd@lsu.edu

The Office of Community Design & Development (OCDD) was established in 1999 as an interdisciplinary community outreach center in the School of Architecture. The office is funded through grants and offers

research that employs students to conduct research and provide pre-professional planning and design services. The practice-centered pedagogy strengthens the efficacy of student learning through a comprehensive approach to professional education, active learning, and assessment.

Research Office for Novice Design Education

DIRECTORS • Sullivan, Dunn
OFFICE • 430 Design Building
TELEPHONE • 225-578-4262
FAX • 225-578-2168
E-MAIL • jsullivan@lsu.edu, mdunn1@lsu.edu
WEB SITE • www.novicedesign.org

The mission of the Research Office for Novice Design Education is to preserve, generate and disseminate knowledge of theories and practices pertaining to novice design education. Its goal is to become a central resource for educators and scholars interested in novice design education.

The research office addresses salient questions regarding how one has taught, teaches, or should teach design to learners who are new to the field of study. Such questions inquire into issues such as the particular educational challenges faced by novice learners and educators and the impact of those challenges on the relationship of novice design education to the broader design disciplines, the content and curricular structure of novice education, and the types of assignments and projects most suited for that content and structure. At their best, these questions, and the answers to them, implicitly or explicitly state a position on the status of knowledge, the means by which one transfers, acquires or constructs knowledge, and how one has used, uses or should use knowledge in the world.

To achieve its mission and goal, the research office is engaged in three ongoing initiatives.

(1) **Collect Existing Scholarship:** The research office collects papers, books, or bibliographic reference material on novice design education. The purpose of this initiative is to develop a comprehensive reference archive for research on novice design education.

(2) **Scholarship:** The research office produces and facilitates scholarship through the work of its directors and scholars who use its library.

(3) **Distribute Scholarship:** The research office disseminates scholarship through this Web site, other publications, and open access to the scholarship it collects.

The research office is honored to house the past proceedings of the National Conference on the Beginning Design Student in searchable PDF format. Over the past 25 years, the participants of NCBDS have produced a remarkable body of knowledge on beginning design education. With this database, the NCBDS and the research office is pleased to make this rich body of knowledge available to scholars.

Research projects currently include investigations into: (1) the relationship between cognition and drawing, (2) film media as an alternative mode of representation in novice design education, (3) teaching

critical reasoning in professionally oriented undergraduate design courses, and (4) the application of Henri Lefebvre's theory of the everyday to novice design education.

Terrain. Kinetics. Interaction (TiKi) Lab

DIRECTOR • Cantrell
OFFICE • 311 Design Building
WEB SITE • tiki.lsu.edu

The TiKi Lab is an effort initiated by the School of Landscape Architecture focusing on research in visualization, simulation, sensing, and interactive/reactive environments. The lab provides facilities that include pen input tablets and monitors, touch screen presentation, high end visualization and video editing components, and three dimensional scanning.

The lab provides a research resource for faculty and graduate students with collaborative projects and funding from a variety of private and governmental organizations. Current projects are focused on haptics in design representation, responsive landscapes, and geo-referenced modeling. Project sponsors have included the McKnight Foundation, Louisiana Department of Homeland Security, and various foundations.

Urban Landscape Lab

DIRECTOR • Michaels
OFFICE • 302 Design Building
TELEPHONE • 225-578-1343
WEB SITE • landscape.lsu.edu/resources_ull.html

The Urban Landscape Lab (ULL) is a research and service-learning center at the School of Landscape Architecture at LSU. The center's mission is to design and build projects in distressed urban areas that promote the development of innovative, healthy and environmentally sustainable landscapes, and provide hands-on learning opportunities for LSU students. There are four ongoing projects within the lab: the New Orleans Schoolyard Project, the St. Roch's Neutral Ground Revitalization, the Viet Village Urban Farm Project, and the New Orleans Garden Festival.

New Orleans Schoolyard Project

The New Orleans Schoolyard Project has worked with several schools since the hurricane in the New Orleans area to help revitalize devastated campuses. This work focuses on developing innovative design solutions that make children more active to combat childhood obesity, develop environmentally sustainable campuses, and engage the school children in design exercises. The Prevention Research Center at Tulane University's School of Public Health and Tropical Medicine has collaborated with the ULL to research impact of schoolyard design on children's health and activity levels. Some of the schools the ULL has worked with include: the Priestly School for Architecture & Construction and the Colton Elementary School.

St. Roch's Neutral Ground Revitalization

The St. Roch's project is located in a historic neighborhood in New Orleans devastated by the hurricane. This project, in collaboration with the Prevention Research

Center at Tulane University's School of Public Health & Tropical Medicine, develops a design for a series of six median areas (called "neutral grounds" locally) along historic St. Roch Avenue. The design process included extensive public participation and interviews with the local residents. The designs are focused on creating more physical activity in the neighborhood. Construction of the first phase of the design began in the fall of 2007.

Viet Village Urban Farm Project

The Viet Village Urban Farm project is located in east New Orleans, a Vietnamese-American community with long ties to this area of New Orleans. Over 90 percent of the pre-Katrina population has returned to this area. The Viet Village Urban Farm is an urban farming project on 21 acres of land located at the center of the community. The farm will support both household farming, and producing crops for local consumption, as well as commercial crops for distribution to local New Orleans restaurants. Educational and recreational activities are also incorporated into the design to create a project that will be the new center of this urban community. This project is being developed in collaboration with the City Center at Tulane University.

New Orleans Garden Festival

The New Orleans Garden Festival project is focused on bringing demonstrations of innovative and environmentally friendly landscape design to the city of New Orleans. A yearly competition to design and build innovative landscapes will draw landscape architects, designers, and artists from around the world to construct a series of demonstration gardens. LSU students will assist in the design and construction of the gardens. This project is in the development phase in collaboration with the non-profit Friends of the NOLA Garden Festival.

COLLEGE OF ARTS & SCIENCES

DEAN • Ferreyra
OFFICE • 132 Hodges Hall
TELEPHONE • 225-578-3141
FAX • 225-578-6447
WEB SITE • www.artsci.lsu.edu

English Language & Orientation Program

OFFICE • 3136 Pleasant Hall
TELEPHONE • 225-578-5642
FAX • 225-578-5710
WEB SITE • www.elop.lsu.edu
E-MAIL • elop@lsu.edu

The *English Language & Orientation Program* (ELOP) offers English language training to international students through a variety of course components. These components are designed to enable inter-national students to attain a mastery of English for academic, professional, or personal goals and to facilitate their adjustment to the educational, social, and cultural life of the U.S. through an integrated program of language classes, orientation events, cultural activities, and field trips. Five *Eight-Week Basic Courses* are offered each year in August, October, January, March, and June. These courses have a core curriculum of

20 hours per week in reading, grammar, composition, and spoken English. Levels are established by placement tests and range from elementary through advanced. All classes are taught by full-time faculty and graduate students.

Elective Classes offered to students in the Basic Course include: a 10-hour TOEFL Preparation Class; a 20-hour Conversation Class led by trained American students who meet with small groups of ELOP students

Admission to the English Language & Orientation Program neither signifies nor guarantees admission to LSU.

Applications to this program may be obtained by contacting the English Language & Orientation Program by mail, telephone, fax, or e-mail.

Southern Regional Climate Center

DIRECTOR • Robbins
OFFICE • E328 Howe-Russell Geoscience Complex
TELEPHONE • 225-578-5021
FAX • 225-578-2912
WEB SITE • www.srcc.lsu.edu

The *NOAA Southern Regional Climate Center* (SRCC), one of six NOAA Regional Climate Centers, provides climate data services for Arkansas, Louisiana, Mississippi, Oklahoma, Tennessee, and Texas. Housed in the Department of Geography & Anthropology, the SRCC is administered by the National Climatic Data Center (NCDC), an agency of the National Oceanic & Atmospheric Administration (NOAA).

The SRCC receives a wide array of National Weather Service (NWS) data via Internet and through a NOAA port satellite receiver. These data are processed at the SRCC and merged with historical climatic archives. These data enable the SRCC staff to monitor and assess the current state of the regional climate and to provide value-added climatic information that promotes regional economic development. The SRCC staff, in conjunction with the LSU Hurricane Center, provides services to state emergency response officials during tropical storms and hurricanes that threaten coastal Louisiana.

Faculty, staff, and graduate students utilize SRCC climatic data and computing resources to perform applied and basic research on a variety of climate-related topics that include rainfall frequency analysis, regional flooding and drought, climatic impacts on agriculture, and numerous issues related to climatic change and variability.

Louisiana Office of State Climatology

STATE CLIMATOLOGIST • Keim
OFFICE • E327 Howe-Russell Geoscience Complex
TELEPHONE • 225-578-6870
FAX • 225-578-2912
WEB SITE • www.losc.lsu.edu
E-MAIL • losc@lsu.edu

The *Louisiana Office of State Climatology* (LOSC) has been providing climate data services to the state's public, private, industrial, and governmental sectors since the late 1970s. The LOSC is charged with maintaining historical climate data, as well as monitoring current weather trends for Louisiana, and is

supported in this activity by the National Climate Data Center. Located within the Department of Geography & Anthropology, the LOSC is closely linked to the department's Southern Regional Climate Center and shares the SRCC's data and computer resources.

Louisiana Population Data Center

DIRECTOR • Singelmann
OFFICE • 30 Stubbs Hall
TELEPHONE • 225-578-5360
FAX • 225-578-5102
WEB SITE • www.lapop.lsu.edu
E-MAIL • joachim@lsu.edu

The *Louisiana Population Data Center* (LPDC) was established at LSU in 1987 to provide technical support for nationally competitive research proposals in the social sciences. Although the LPDC is housed in the Department of Sociology, its mission is to serve social science researchers throughout the University. Since its inception, the LPDC has supported researchers in Psychology, Political Science, Human Ecology, Agricultural Economics, Social Work, and other academic units. The LPDC is the academic coordinating agency in Louisiana for the State Data Center (SDC) program of the Bureau of Census.

The LPDC director is the inter-University Consortium for Political and Social Research (ICPSR) organizational representative. Through this service the LPDC provides social science researchers at LSU with assistance in acquiring and accessing a vast archive of social science data stored at LSU and the University of Michigan. Funded by the LSU College of Arts & Sciences, access to these data sets is free to LSU researchers.

The center has moved to national prominence through its service and research on key social problems. Because it is self-supporting, research contracts and awards with national and local agencies have been an important component of the center's activities. Our research has been supported by funding from National Science Foundation, U.S. Department of Agriculture, National Institute on Aging, Minerals Management Service, National Marine Fisheries Service, and the Rockefeller Foundation at the national level, and the Louisiana Departments of Health and Hospitals, Labor, and Social Services, the Metropolitan Council of the City of Baton Rouge, and the Governor's Office of Elderly Affairs at the local and state level.

Administratively, the director of the LPDC together with an Executive Committee set center policy. Senior researchers of the center make up the Executive Committee. Upon recommendation from the center's Executive Committee, the dean of the College of Arts & Sciences appoints the director of the LPDC for a five-year term. Funded research is administered through the Office of the Vice Chancellor for Research & Economic Development.

Eric Voegelin Institute for American Renaissance Studies

DIRECTOR • Sandoz
OFFICE • 212 Stubbs Hall
TELEPHONE • 225-578-2552; 578-7888
FAX • 225-578-4766
WEB SITE • www.ericvoegelin.org
E-MAIL • esandoz@lsu.edu

The *Eric Voegelin Institute for American Renaissance Studies*, a humanities-social science research institute with no instructional program, was created as a unit within the College of Arts & Sciences in 1987. The institute is named for perhaps the greatest scholar-teacher in the history of the University (1942-1958) and one of the original Boyd Professors, Eric Voegelin, of the Department of Government (renamed the Department of Political Science in the 1960s). The institute is devoted to revitalizing the teaching and understanding of the great books of Western civilization in comparison with other civilizational traditions, especially along lines embodied in Voegelin's own massive scholarship.

Largely supported by private contributions and other external funding, the institute is principally involved in two activities: *conferences* conducted both in the U.S. and abroad in the fields of constitutionalism, individual liberty, and political philosophy; and *publications* (books and monographs) in these same interest areas. It is the principal editorial and financial support unit for the large edition titled *The Collected Works of Eric Voegelin*, University of Missouri Press, 34 vols. completed in 2009.

COLLEGE OF BASIC SCIENCES

DEAN • Carman
OFFICE • 338 Choppin Hall
TELEPHONE • 225-578-4200
FAX • 225-578-8826
WEB SITE • http://science.lsu.edu

Hearne Institute for Theoretical Physics

DIRECTORS • Dowling & Pullin
OFFICE • 202 Nicholson Hall
TELEPHONE • 225-578-2261
FAX • 225-578-5855
WEB SITE • hearne.phys.lsu.edu

In 1994, LSU alumni Horace C. Hearne, Jr., endowed two chaired professorships in the Department of Physics and Astronomy at LSU. In his will he also left a mandate that they be used to create the Horace Hearne, Jr. Institute for Theoretical Physics.

In 2001, Jorge Pullin joined the LSU faculty as one of the Hearne Chairs and in 2004 Jonathan Dowling was also hired as a Hearne Chair. Research is on quantization of gravity and quantum science and technologies, including decoherence due to quantum gravity, non-standard optics due to quantum gravity, quantum computing, quantum imaging, and quantum sensors.

The Institute has more than 10 associate faculty in the departments of Physics and Astronomy, Math, Electrical Engineering, and Computer Science, and is supported by the original Hearne endowment, as well as grants from the National Science Foundation and the

Department of Defense.

LSU Herbarium

DIRECTOR • Urbatsch
OFFICE • A257A Life Sciences Annex
TELEPHONE • 225-578-8555
FAX • 225-578-2597
WEB SITE • www.herbarium.lsu.edu
E-MAIL • leu@lsu.edu

Lichen & Bryophyte Herbarium

The *Lichen & Bryophyte Herbarium*, located in A257 Life Sciences Annex, is a permanent scientific collection of preserved material of more than 45,000 specimens of lichens—the largest collection of its kind in the Gulf South—and several thousand mosses and liverworts. It is the result of the work of Boyd Professor Emerita Shirley Tucker, Department of Biological Sciences. Geographical emphasis is on species native to Louisiana and the southeastern U.S. Other areas represented include the western and northern U.S., Canada, the American tropics, New Zealand, Europe, and Australia. The collection is particularly rich in tropical and subtropical crustose lichens.

The herbarium is primarily a research and teaching facility. Research programs are in progress on floristics of southeastern U.S. lichens and on ultrastructure of subtropical crustose lichens. On request, specimens are available for loan to other institutions.

Mycological Herbarium

The *Bernard Lowy Mycological Herbarium*, located in A257 Life Sciences Annex, contains the University's permanent collection of more than 25,000 preserved specimens of nonlichenized fungi from all over the world. It was collected principally by the late Dr. Bernard Lowy, an LSU mycologist and ethnobotanist of international stature. It includes a large representative collection of Amazonian Tremellales and other Basidiomycetes, as well as an important collection of Gulf Coast wood decay fungi. The herbarium is principally a research and teaching facility, and specimens are loaned to other institutions, both domestic and foreign.

Vascular Plant Herbarium

The *Vascular Plant Herbarium*, located in A257 Life Sciences Annex, houses the permanent, scientific collection of preserved specimens of ferns, fern allies, gymnosperms, and flowering plants. Founded in 1869, it is the oldest herbarium in the Gulf South and presently comprises more than 120,000 specimens, including one of the best collections of Louisiana plants.

The collection includes dried, pressed specimens and material preserved in alcohol. Many historically important 19th and early 20th century specimens from the Louisiana Gulf Coast are included. New material is obtained through the collecting efforts of herbarium personnel, associated colleagues, amateurs, and through the exchange of duplicates with other herbaria. The goal of the herbarium is to be the premier collection of Louisiana and Gulf South plants, and a resource of international importance.

The herbarium is a reference and service facility, and is an essential resource for all research, teaching, and public service involving identification, classification, economic importance, and ecology of the plants and vegetation of Louisiana, the Gulf South, and the northern Neotropics. Numerous publications are based on the collections. The herbarium also supports an extensive Web site (www.herbarium.lsu.edu), which features browseable and searchable specimen records, specimen images, a plant image gallery, and plant fact sheets. Use may be arranged through Dr. Diane M. Ferguson, Collections Manager, A257D Life Sciences Annex, 225-578-8564. E-mail address: dfergul1@lsu.edu.

LSU Museum of Natural Science

DIRECTOR • Sheldon
OFFICE • 119 Foster Hall
TELEPHONE • 225-578-2855
FAX • 225-578-3075
WEB SITE • www.museum.lsu.edu
E-MAIL • museum@lsu.edu

The *Museum of Natural Science*, a subunit of the *Louisiana Museum of Natural History*, consists of the Division of Zoology, located in Foster Hall, and the Division of Geoscience, located in the Howe-Russell Geoscience Complex. The exhibits in Foster Hall consist of nine major dioramas that depict with meticulous accuracy the flora and fauna of selected scenes from North America, including representatives of Louisiana's animal life. Other exhibits and visual aids explain various biological and geological principles. The museum's exhibits are free and open to the public from 8 a.m. to 4 p.m., Monday through Friday (call 578-3080 for information); closed on Saturday, Sunday, and University holidays.

The museum's *Division of Zoology* contains extensive research collections, numbering more than 500,000 cataloged specimens of birds, mammals, fishes, amphibians, reptiles, and their tissue samples. This internationally known repository of zoological material provides the basis for a program of research and serves as an important aid in teaching biological subjects.

The *Division of Geoscience* contains the most extensive archeological and geological research collections in Louisiana. The museum's archeological collections include more than one million lots from 1,800 sites in Louisiana and many other sites in the Gulf Coast and Caribbean regions. Ethnological collections include material from North and South America, Africa, Australia, Oceania, Asia, and the Arctic. The *H. V. Howe Type Collection* of fossil ostracoda and the *H. B. Stenzel Collection* of fossil oysters are among the best of their kind in the world.

The museum is a member of the Natural Science Collections Alliance.

E. J. OURSO COLLEGE OF BUSINESS

DEAN • Jones
OFFICE • 3304 Patrick Taylor Hall
TELEPHONE • 225-578-3211
FAX • 225-578-5256
WEB SITE • www.bus.lsu.edu

Louisiana Business & Technology Center

DIRECTOR • D'Agostino
OFFICE • LSU South Campus, 8000 GSRI Rd.,
Building 3000, Baton Rouge, LA 70820
TELEPHONE • 225-578-7555
FAX • 225-578-3975
WEB SITE • www.bus.lsu.edu/lbtc

The *Louisiana Business & Technology Center* (LBTC) was created in 1988 as a joint venture of the University, the Greater Baton Rouge Chamber of Commerce, and the Louisiana Public Facilities Authority. LBTC is now part of the E. J. Ourso College of Business. Its purpose is to enhance economic development in the state through a job creation network. A community resource, LBTC assists new and small businesses by offering:

- management and marketing expertise;
- technology and technical assistance; and
- office space and business services.

The intent is to develop and nurture small business growth as a means of diversifying the economy.

LBTC provides space for new business start-ups in the incubator at South Campus. Companies located in the LBTC can concentrate on production and marketing, which affect success and profit. Day-to-day administrative details and overhead problems are left to the facility manager. The LBTC was named the *2005 National Business Incubator of the Year* by the National Business Incubation Association (NBIA), the *2009 U.S. Department of Commerce—Excellence in Economic Development* and the *2009 NBIA—Most Innovative Program*.

The center provides additional services to businesses through its LSU Small Business Development Center, a partnership with the U. S. Small Business Administration and the Louisiana Economic Development; its Louisiana Technology Transfer Office at NASA's Stennis Space Center in Bay St. Louis, Mississippi; and its linkage to the NASA Southeast Regional Technology Transfer Center (SERTTC). Also, financial consultants provided by the Louisiana Public Facilities Authority offer excellent resources to LBTC's clients.

LSU Small Business Development Center • A partnership with the U.S. Small Business Administration and the Louisiana Department of Economic Development, this center serves small and new businesses in three areas: education, research, and outreach. Job creation and economic development are the main goals of the center.

Students work with entrepreneurs and small business clients to produce business plans, market studies, software programs, and accounting systems. The program provides students with real world experience and practical application of acquired knowledge.

Technology Transfer • The LBTC operates the Louisiana Technology Transfer Office at NASA's John C. Stennis Space Center

(SSC) in Bay St. Louis, Mississippi, under a contract from the Louisiana Department of Economic Development. The office is a technology clearinghouse for Louisiana business and industry. Its purpose is to foster technology commercialization and economic development. Close ties were developed with the Federal Laboratory Consortium, which has a wealth of talent and technology available to businesses that can access the system.

Goals of the Technology Transfer Office are:

- to broker technical requirements of Louisiana businesses with the federal agencies;
- to establish a process for matching Louisiana businesses with Small Business Innovation Research grant requests and for assisting businesses in applying for grants;
- to foster local and state economic development by accessing the federal labs for problem solving, innovation, and technology transfer;
- to represent LSU in the Federal Laboratory Consortium and at other national and international forums; and
- to provide access for state agencies, local government, and Louisiana businesses to conduct research and develop technologies.

LBTC Mobile Classroom and Rural Entrepreneurship Program • The LBTC has a 30-seat mobile classroom that it deploys to rural Louisiana and the hurricane impacted areas of the state to offer training in entrepreneurship, business planning, marketing and disaster recovery. This program is funded by the USDA - Rural Development with assistance from the LED, LPFA, LSU Ag Center, Louisiana Municipal Association, and Capital One. The unit visits 30 locations annually offering workshops and one-on-one counseling.

Access LSU • The LBTC has established a program to be the gatekeeper for businesses needing access to LSU's wealth of talent, expertise, equipment, and technology. Business owners call the LBTC with their problems and needs and the LBTC researches the system to find and connect the proper expert with the business.

Disaster Recovery • The LBTC was established as a Small Business Disaster Recovery Center immediately after the hurricanes of 2005. The LBTC has partnered with Louisiana Economic Development and others including Shell and ExxonMobil to provide assistance to businesses and entrepreneurs in the hurricane parishes from Cameron to Calcasieu to St. Bernard and Plaquemines. The program provides one-on-one counseling as well as workshops on procurement, business recovery, and business development.

Stephenson Entrepreneurship Institute

INTERIM DIRECTOR • Justis
OFFICE • 3307C Patrick F. Taylor Hall
TELEPHONE • 225-578-0313
FAX • 225-578-6606
E-MAIL • rjustis@lsu.edu
ASSOCIATE DIRECTOR • Carter
TELEPHONE • 225-578-6411
E-MAIL • cacarte@lsu.edu
WEB SITE • www.bus.lsu.edu/sei

The *Stephenson Entrepreneurship Institute's* mission is to inspire, innovate,

integrate, and implement new ways of thinking, education, and outreach to positively impact students, the regional economy, the state of Louisiana, and the nation. This multi-disciplinary, University-wide institute promotes innovative approaches to identifying needs and solving problems through an entrepreneurial view of opportunity recognition and realization.

The institute offers programs and activities such as educational seminars and workshops in an executive education format; university course work; business planning, marketing and management consultation; and venture funding assistance, to give entrepreneurs effective management tools and problem-solving skills with the primary goal of economic development and job creation in Louisiana. Available University academic course work areas include: entrepreneurship, small business management, innovation and creativity, doing business in China, consulting field projects, family business management, franchising management, and independent study topics as approved.

Focus Programs

- **Executive & Entrepreneurial Education** - a certificate course that instills a new vitality and effectiveness by hosting guest speakers and lecture for mid-career level executives seeking professional development.
- **Louisiana Business & Technology Center** - develops small businesses and creates job opportunities in Louisiana through its technology incubator, consulting services, outreach programs, a Mobile Classroom, and various other commercialization and development programs.
- **Women in Business** - addresses the issues, opportunities, and challenges faced by today's female entrepreneur and consists of an annual seminar, networking sessions and directed consulting projects.
- **International Franchise Forum** - provides expertise, experience, and advice to help businesses initiate new franchising systems.
- **Family Business Forum** - offers family business owners the opportunity to gain the knowledge to successfully operate and expand their business.
- **Tiger Business Service** - a low-cost business consulting service which is provided to the Baton Rouge area for-profit and non-profit organizations using interdisciplinary consulting teams.

A generous donation by Emmet and Toni Stephenson will permit The Stephenson Entrepreneurship Institute, the Louisiana Business & Technology Center, the Small Business Development Center, the LSU System Emerging Technology Center, and other colleges within LSU to create a more responsive environment to assist in economic development and entrepreneurship related endeavors.

Public Administration Institute

DIRECTOR • Richardson
OFFICE • 3200 Patrick Taylor Hall
TELEPHONE • 225-578-6743
FAX • 225-578-9078
WEB SITE • www.bus.lsu.edu/pai
E-MAIL • pai@lsu.edu

The *Public Administration Institute* (PAI) offers the Master of Public Administration (MPA) degree to enhance career opportunities for those planning to enter public service; provide help for those currently employed in public service who want to acquire or to extend their professional knowledge; offer service to those interested in the not-for-profit sector of the economy; and offer training for those who are in the private sector or who intend to work in the private sector who will deal with the public sector. Students from a social science, liberal arts, business, or physical science background are encouraged to apply.

The curriculum consists of course work in the disciplines of finance, economics, political science, management, and statistics. The course work focuses on analytical, quantitative, and management skills needed by today's successful public or private manager. Core courses are taught by faculty in the PAI and supporting departments throughout the University. Classes are scheduled to accommodate career professionals, as well as full-time students. Challenging internships in government and non-profit agencies are available to qualified students.

Louisiana Real Estate Research Institute

DIRECTOR • Pace
OFFICE • 2164 Patrick Taylor Hall
TELEPHONE • 225-578-6238
FAX • 225-578-6366
WEB SITE • www.bus.lsu.edu/leri

The *Louisiana Real Estate Research Institute* was established in 1985 with funding from the Ourso College of Business and the Louisiana Real Estate Commission. Its purpose is to encourage, support, and conduct applied and basic research in real estate, with particular focus on real estate and related economic activity in Louisiana. The institute has sponsored nearly 200 research projects, ranging from the analysis of nonparametric location theory to investigation of the effect on housing markets of below-market financing bond issues. An integral part of the institute's effort is to fund research grants for faculty and graduate students, as well as to provide scholarship support for students.

The institute's work is closely supported by the Louisiana Real Estate Commission Endowed Chair of Real Estate, the Latter & Blum Professorship of Business Administration, and the C. J. Brown Professorship of Real Estate. Continued funding for the institute has been provided by the Louisiana Real Estate Commission, the Ourso College of Business, the Commercial Investment Division of the Baton Rouge Board of Realtors, and various local and state private corporations.

Stephenson Disaster Management Institute

INTERIM-DIRECTOR • Anderson
OFFICE • 1103 Patrick F. Taylor Hall
TELEPHONE • 225-578-0238
FAX • 225-578-8741
E-MAIL • sdmi@lsu.edu
WEB SITE • www.bus.lsu.edu/centers/sdmi

The *Stephenson Disaster Management Institute* was formed to address the issues and challenges rapid and effective response to disasters by creating a world class organization in which engaged academic researchers, talented disaster managers, and expert advisors from the private sector collaborate to study disaster management problems, develop realistic solutions, publish smart practices, and teach improved disaster management strategies. SDMI will enhance LSU's ability to bring its existing programs and research capacity to bear on the particular problems of disasters, and will add substantial additional capacity with respect to strategic management and decision-making. SDMI will assure that LSU continues the national prominence it has recently gained, and more importantly, will assure that the nation becomes better able to respond to future catastrophes. The mission of the institute is to save the lives of people and animals by continuously improving disaster response management through research and education. It will do this by:

- Bringing business principles and research to bear on the unanswered management challenges of large, complex disasters.
- Applying, enhancing, and coordinating the unique capabilities and experience of Louisiana State University in the areas of hurricane research, disaster science, computation and technology, and counter-terrorism training.
- Building partnerships between management scholars, emergency preparedness and response practitioners, and corporations.
- Producing high quality, applied research that draws from multiple disciplines.
- Disseminating learning through meaningful executive education programs and publications for business and government managers.

SCHOOL OF THE COAST AND ENVIRONMENT

INTERIM DEAN • Shaw
OFFICE • 1002-Q Energy, Coast, & Environment Building
TELEPHONE • 225-578-6316
FAX • 225-578-5328

Coastal Ecology Research Focus

The coastal ecology research group focuses on the wide range of ecosystems encountered in the coastal zone. The specialties include ecosystem modeling, conservation, estuarine and wetland ecology, isotope biogeochemistry, hydrology, microbiology, wetlands, restoration, oceanography, and water quality. Researchers seek answers to problems in the shallow continental shelf, the coastline, inshore estuaries, and wetlands that form an interface between the uplands and the open ocean.

Faculty and staff have ongoing projects in Louisiana and the United States, as well as Central and South America, Asia, and Europe.

Major projects include studies of the biological oceanography of the northern Gulf of Mexico (including the low oxygen zones and hard bank communities); coastal zone characterization, assessments, and monitoring studies including biogeochemistry of nearshore waters; wetland loss and human impact analyses; wetland hydrology, and restoration efforts; and development of ecosystem models to predict and evaluate management and potential climate change effects on Louisiana's coast. Scientists also study deep sea benthic ecology, submarine ground water discharge, harmful algal blooms, trophic dynamics of terrestrial, riverine, and marine ecosystems.

Coastal Fisheries Research Focus

The coastal fisheries research group conducts applied and fundamental research intended to provide a better understanding of relationships among man, environmental processes, and fish communities; to document the status of existing fisheries and fish populations; and to assist in providing the research foundation for the evolution of more stable fisheries.

The objectives of this research group are to strengthen and lead marine fishery-related research (fish, mollusks, and crustaceans) and education at LSU; to develop a better understanding of the operative factors influencing fish growth, survivorship, and yield; to provide state government, public conservation agencies, and private industry with the data necessary to make sound management decisions; and to cooperate with the Louisiana Department of Wildlife and Fisheries and the National Marine Fisheries Service to assure the safe development and wise use of fishery resources in Louisiana and the Gulf of Mexico.

Research coordinates and integrates knowledge from zoology, ecology, biochemistry, oceanography, modeling, and statistics to address relevant issues, such as overfishing, pollution, habitat loss, sustainability, and resource utilization disputes that threaten Louisiana's fishery resources, its rich coastal heritage, and the economic well-being of an important industry.

Wetland Biogeochemistry Research Focus

The wetland biogeochemistry research group investigates chemical and ecological interactions in marsh, mangrove, swamp, and floodplain wetlands around the world. Research topics include chemical and biological behavior of plant nutrients and toxic substances in wetlands to understand structure and function of coastal ecosystems. The environmental impacts of plant nutrients, pesticides, toxic heavy metals, and hydrocarbons in wetlands are areas of faculty expertise.

Current research includes studies on the processing of primary nutrients in coastal ecosystems (including sources and sinks), response of wetland plants to various environmental stressors such as anaerobic soil conditions and salinity, factors affecting their biodegradation of petroleum hydrocarbons

and toxic synthetic organic compounds in wetlands, and physiochemical reactions of toxic metals in soils and sediment-water systems affecting their mobility and biological activity.

Other important current research activities include comparative ecosystem ecology of wetlands and chemical, physical, and biological factors affecting coastal marsh instability, including strategies for effective wetland restoration.

Coastal Studies Institute

DIRECTOR • Stone
OFFICE • 331 Howe-Russell Geoscience Complex
TELEPHONE • 225-578-2395
FAX • 225-578-2520
WEB SITE • www.csi.lsu.edu

The *Coastal Studies Institute (CSI)* is a research organization established in 1952 with a major emphasis on dynamic processes of the coastal zone. Research is interdisciplinary, including sedimentology, marine geology and geophysics, coastal morphodynamics, hydrodynamics, dynamic meteorology, physical oceanography, air-sea interactions, and remote sensing. Field investigations have been undertaken on all continents except Antarctica, including the coast of the Arctic Ocean. A significant part of CSI research concentrates on transport processes and form-process relationships in coastal and continental-shelf environments.

The emphasis of the marine geology program is on deltaic, shelf, and slope sedimentary environments. Coastal morphodynamics focuses on bottom boundary layer and nearshore processes and costal response to storm events. Physical oceanographic research emphasizes the dynamics of water and sediment particulates in coastal, estuarine, continental shelf and slope, and marginal ocean basin environments, including numerical modeling of such processes. The dynamic meteorology program addresses research problems in the coastal zone and marine boundary layer. Research on air-sea interactions associated with hurricanes and tropical storms is focused on advancing the understanding and prediction of storm track and intensity changes.

The institute houses the Earth Scan Laboratory (LSU's satellite receiving station and image processing facility), and the WAVCIS (Wave-Current-Surge Information System) program (oceanographic/meteorological real-time observing systems in the Gulf of Mexico). Institute programs provide excellent opportunities for graduate student research.

CSI receives research support through competitive grants and contracts with a variety of federal agencies including the U.S. Geological Survey, the National Science Foundation, the National Aeronautics & Space Administration, the National Oceanic & Atmospheric Administration, the U.S. Minerals Management Service, the Coastal Sciences Program of the Office of Naval Research, the Corps of Engineers, Federal Emergency Management Agency, and the Sea Grant Program, as well as a variety of state agencies and major petroleum companies.

Special Programs

Special Programs focuses on cooperative research programs involving several SC&E and other LSU units, other universities, and federal and state agencies. Most projects are multidisciplinary, focusing on applied problems, particularly in planning, management, and protection of coastal resources.

The majority of projects are supported with contract funds and involve the application of SC&E research results to coastal and environmental issues. Project leaders report to the dean of the SC&E and are supported by administrative staff.

Current special programs include the Coastal Marine Institute, Coastal Restoration and Enhancement through Science and Technology Program, Louisiana Geographic Information Center, and the Coastal and Environmental Modeling Laboratory.

COLLEGE OF ENGINEERING

INTERIM DEAN • Constant
OFFICE • 3304 Patrick Taylor Hall
TELEPHONE • 225-578-5731
FAX • 225-334-4845
WEB SITE • www.eng.lsu.edu

Center for Gas Turbine Innovations & Energy Research

DIRECTOR • Acharya
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TELEPHONE • 225-578-5809
FAX • 225-578-5924
WEB SITE • http://me.lsu.edu/tier
E-MAIL • acharya@me.lsu.edu

The mission of the *Center for Gas Turbine Innovations & Energy Research (TIER)* is to bring university researchers, turbine engine companies, utilities, and industries together to pursue collaborative interdisciplinary research in the area of gas turbines and distributed energy, and to educate and prepare students for opportunities in gas turbine engine companies, utilities, and cogeneration facilities.

The center is staffed with a team of researchers primarily from the College of Engineering, with ongoing collaboration with the College of Arts & Sciences, the College of Basic Sciences, and the Center for Advanced Microstructures & Devices. The various researchers have established strong programs in gas turbines and distributed energy or related areas.

Center for Rotating Machinery

DIRECTOR • Khonsari
OFFICE • 2508 Patrick F. Taylor Hall
TELEPHONE • 225-578-9192
FAX • 225-578-5924
WEB SITE • www.cerom.lsu.edu
E-MAIL • khonsari@me.lsu.edu

The *Center for Rotating Machinery (CeROM)*, established in 2000, was created by an interdisciplinary research group led by faculty in the Department of Mechanical Engineering in close collaboration with business and industry leaders. By providing cutting-edge technological innovations to solve complex problems in engineering

systems, the center serves as an intellectual foundation to the industry with focus on long-range development.

The center fosters the development of the next generation of mechanical components, materials synthesis, and fabrication techniques, and serves the needs of the large industrial base in Louisiana and elsewhere in the nation. Current collaborations exist between researchers in the center and a number of industries as well as the Gulf South Rotating Machinery Symposium (GSRMS) Conference steering committee. Projects of note include research in the areas of tribology, materials synthesis, characterization, modeling, mechanical systems analysis, nondestructive testing, fatigue testing and analysis, and advanced sensing technology. The center is committed to maintaining a strong partnership with industry through stimulating technological innovation; facilitating commercialization of new research and development; serving as a magnet for attracting new industries to Louisiana; hosting workshops, symposia, and advanced speciality courses for training professional engineers; and providing graduate students with real-world, relevant experience to produce a high quality workforce for Louisiana and beyond.

Hazardous Substance Research Center

CO-DIRECTORS • Reible; Pardue
OFFICE • 3221 Patrick Taylor Hall
TELEPHONE • 225-578-6770
FAX • 225-578-5043
WEB SITE • www.hsrrc-ssw.org

The *Hazardous Substance Research Center/South and Southwest (HSRC)* is a five-institution consortium consisting of LSU, as the lead institution, Georgia Institute of Technology, Texas A&M, Rice University, and the University of Texas. The consortium conducts research, outreach, and technology transfer activities on critical hazardous substance problems. These investigations focus on the following three categories:

- engineering management of contaminated sediments;
- hazardous substances problems of special interest to communities within EPA Regions 4 and 6; and
- hazardous waste site remediation and management.

Louisiana Transportation Research Center

DIRECTOR • Paul
OFFICE • 4101 Gourrier Ave.
TELEPHONE • 225-767-9131
FAX • 225-767-9108
WEB SITE • www.ltrc.lsu.edu/

The *Louisiana Transportation Research Center (LTRC)* is a cooperative research, education, and technology transfer center jointly administered by LSU and the Louisiana Department of Transportation & Development. The center was established in 1986 by the Louisiana Legislature with the goal of improving the state's transportation system through basic and applied research, education, and technology transfer. The primary focus of the center is development of

nationally recognized research and educational programs in transportation systems resulting in the implementation of more efficient design, planning, maintenance, operation, and construction practices as well as improved safety. LTRC also offers courses, seminars, and training sessions designed to enhance the professional capabilities of DOTD engineers and all transportation professionals. These courses are offered through LTRC's Transportation Training and Education Center (TTEC) located adjacent to the LTRC building. TTEC has state-of-the-art classrooms and lecture facilities with advanced distance-learning capabilities. LTRC also publishes reports, brochures, and training materials. These publications are available to students in appropriate disciplines.

The Louisiana Local Technical Assistance Program (LTAP), a division of LTRC, is part of a national network dispersing the latest in transportation practices to local governing bodies by means of publications, seminars, workshops, and technical assistance.

Louisiana Water Resources Research Institute

DIRECTOR • Pardue
OFFICE • 3221 Patrick Taylor Hall
TELEPHONE • 225-578-6027
FAX • 225-578-5043
WEB SITE • www.lwrri.lsu.edu

The *Louisiana Water Resources Research Institute* funds research concerned with water resources problems and the enhancement of Louisiana's water resources, while simultaneously training engineers and scientists to address future problems. Located on the LSU campus, research may be conducted by faculty from universities and colleges statewide. Research topics range from resource management (including flooding and water supply) to water quality (including wastewater treatment and aquifer restoration).

MANSHIP SCHOOL OF MASS COMMUNICATION

DEAN • Hamilton
OFFICE • 211 Journalism Bldg.
TELEPHONE • 225-578-2336
FAX • 225-578-2125
WEB SITE • www.manship.lsu.edu

Reilly Center for Media & Public Affairs

DIRECTOR • Moore
OFFICE • 222A Journalism Building
TELEPHONE • 225-578-2002; 225-578-2223
FAX • 225-578-2125
WEB SITE • www.lsu.edu/reillycenter

The *Reilly Center for Media & Public Affairs*, launched in 2000, is the focus of numerous projects and activities aimed at elevating the quality of civic discourse. The center is housed in the Manship School of Mass Communication, but collaborates with other academic units.

The center supports cutting-edge scholarship and research on all aspects of media and politics. Topics range over a wide variety of issues, including news coverage of government and business, the impact of technology on foreign news coverage, the role

of advocacy groups in reaching the electorate, public opinion analysis, and constituent building by public and private entities.

The center has a number of venues for making its research public and useful. It cooperates with LSU Press to publish an ongoing series of books. It also supports symposia, conferences, and a public policy fellows program for the discussion of mass communication and public affairs issues. The John Breaux Symposium is held annually, bringing in outstanding scholars, journalists, public officials, and business and civic leaders. Symposia focus on state and national issues of pressing contemporary importance. Symposia are often published as reports and distributed nationally. The center manages the Manship School Research Facility which houses the Public Policy Research Lab and the Media Effects Lab.

No degree is offered, but the center is tied to the Ph.D. program in mass communication and public affairs, which offers fellowships to support doctoral candidates who assist faculty and the center with research. Work in the center provides valuable experience for students, thereby enhancing the quality of their education. The center also brings in visiting scholars to collaborate on projects and work with students.

The center's public service arm directly assists media companies, industry, government, and nonprofit agencies by focusing the expertise of superior scholars on practical problems. Projects may include opinion surveys, communication plans, media training, and other special projects.

OTHER RESEARCH PARTNERSHIPS

LSU AGRICULTURAL CENTER

WEB SITE • www.lsuagcenter.com

As the research arm of the *LSU Agricultural Center*, the *Louisiana Agricultural Experiment Station* is a major partner in graduate education and research. Research in the major soil, climate, and agricultural production areas is conducted in campus departments and in research stations located throughout the state. Many Agricultural Experiment Station faculty hold joint teaching and research appointments in the College of Agriculture, College of Engineering, and the School of Veterinary Medicine. In addition, the Experiment Station provides a large number of graduate assistantships, and laboratories, equipment, and facilities of the station are made available to graduate students.

ARCTIC RESEARCH CONSORTIUM OF THE UNITED STATES (ARCUS)

WEB SITE • www.arcus.org

The mission of ARCUS is to strengthen and advance arctic research to meet national needs. ARCUS consists of institutions organized and operated for educational, professional, or scientific purposes. An institution is considered eligible for membership in ARCUS if it has made a definitive, substantial, and continuing commitment to a coherent research program

or course of studies leading to degrees in one or more of the disciplines associated with arctic research or related fields. These institutions have a common purpose of advancing science, promoting the application of their knowledge to national problems, and attacking in concert those scientific and technological questions that require the collaborative skills and resources of scientists, engineers, and others throughout the nation and world. For more information contact LSU Consortium Representative Dr. H. Jesse Walker at 225-578-6130.

AUDUBON CENTER FOR RESEARCH OF ENDANGERED SPECIES

DIRECTOR • Dresser
TELEPHONE • 504-581-4629
WEB SITE • www.auduboninstitute.org

The *Audubon Center for Research of Endangered Species* (ACRES), opened in 1996, is an ambitious and innovative initiative in species conservation. Located in New Orleans, ACRES includes a 36,000 square-foot facility designed to house scientists whose research programs include studies in reproductive physiology, endocrinology, genetics, embryo transfer, and the expansion of a "frozen zoo" to assure the future of endangered species through the banking of genetic materials.

The alliances between LSU and ACRES (joint programming, data pooling, collaborative research, and cooperative funding) enables interdisciplinary field-and-lab teams to conduct far-reaching research programs which range in scope from regional to international.

The knowledge gained through collaborative research between LSU and ACRES will help scientists and conservationists cope with threats to the most seriously endangered species by developing new reproductive technologies and reintroduction techniques necessary to ensure their long-term survival.

LOUISIANA UNIVERSITIES MARINE CONSORTIUM

DIRECTOR • Dagg
TELEPHONE • 985-581-2800
WEB SITE • www.lumcon.edu

Louisiana Universities Marine Consortium (LUMCON) was formed in 1979 to coordinate and stimulate Louisiana's activities in marine research and education. LUMCON provides coastal laboratory facilities to Louisiana universities and conducts research and educational programs in the marine sciences.

LUMCON's primary facilities are located at the DeFelice Marine Center in Cocodrie, approximately 85 miles southwest of New Orleans. This location, situated within the estuarine wetland complex of the Mississippi River delta plain between the Atchafalaya and Mississippi Rivers, provides ready access to the most productive estuaries in the U.S., to a variety of coastal environments, and to the open Gulf of Mexico.

LUMCON is governed by a six-member Executive Board comprised of chief executive officers of LSU, Nicholls State University,

and the University of Louisiana at Lafayette. This board reports to the Louisiana Board of Regents. For more information about LUMCON visit their Web site at www.lumcon.edu.

OAK RIDGE ASSOCIATED UNIVERSITIES

WEB SITE • www.orau.org

Since 1946, students and faculty of LSU have benefitted from LSU's membership in the Oak Ridge Associated Universities (ORAU). ORAU is a consortium of 85 colleges and universities and a contractor for the U.S. Department of Energy (DOE) located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship scholarship, and research appointments; and to organize research alliances among its members.

Through the *Oak Ridge Institute for Science and Education* (ORISE)—the DOE facility that ORAU operates, undergraduates, graduates, postgraduates, and faculty enjoy access to a multitude of opportunities for study and research. Students can participate in programs covering a wide variety of disciplines including business, earth sciences, epidemiology, engineering, physics, geological sciences, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry, and mathematics. Appointments and program lengths range from one month to four years. Many of these programs are especially designed to increase the numbers of underrepresented minority students pursuing degrees in science- and engineering-related disciplines. A comprehensive listing of these programs and other opportunities, their disciplines, and details on locations and benefits can be found in the *ORISE Catalog of Education and Training Programs*, which is available on the ORAU Web site, or by calling either of the contacts listed below.

ORAU's Office of Partnership Development seeks opportunities for partnerships and alliances among ORAU's members, private industry, and major federal facilities. Activities include faculty development programs, such as the Ralph E. Powe Junior Faculty Enhancement Awards, the Visiting Industrial Scholars Program, consortium research funding initiatives, faculty research, and support programs as well as services to chief research officers.

For more information about ORAU and its programs, contact Monnie E. Champion, ORAU Corporate Secretary, 865-576-3306; or visit the ORAU home page: www.orau.org.

ORGANIZATION FOR TROPICAL STUDIES

WEB SITE • www.ots.duke.edu

The *Organization for Tropical Studies* (OTS) is a nonprofit, scientific, academic con-sortium whose mission is to provide leadership in tropical biology by promoting education, research, and the wise use of natural resources in the tropics. Founded in 1963, OTS is now composed of 64 premier universities and institutions throughout the world, including LSU. Graduate students at LSU are eligible to participate in the renowned field courses in tropical biology in Brazil, Costa Rica, and Peru and to apply for tropical research fellowships through OTS. Undergraduate biology majors are eligible for the *OTS Semester Abroad*, an integrated program of environmental sciences and Latin American culture.

OTS offices are located at Duke University in the USA and in San Jose in Costa Rica. Three field stations in Costa Rica are located in tropical rain forest (La Selva), tropical dry forest (Palo Verde), and tropical montane forest (Las Cruces) environments. La Selva Biological Station, OTS's flagship facility, is a modern biological research laboratory in the midst of a 3,000-acre lowland rain forest preserve. OTS provides logistical support and offers the use of equipment and field stations for field research in tropical biology. Funds are available through OTS for qualified graduate students to initiate research projects.

Additional information regarding the program and course application forms are available from Dr. Bruce Williamson, Department of Biological Sciences, LSU, 508 Life Sciences Building and at btwill@lsu.edu; or from the Organization for Tropical Studies, North American Office, P.O. Box 90630, Durham, North Carolina 27708 and at www.ots.duke.edu.

PENNINGTON BIOMEDICAL RESEARCH CENTER

EXECUTIVE DIRECTOR • Bouchard
OFFICE • 6400 Perkins Road
TELEPHONE • 225-763-2500
FAX • 225-763-2525
WEB SITE • www.pbrc.edu

The *Pennington Biomedical Research Center* (PBRC) conducts research in nutrition and preventive medicine. Many of its full-time scientists hold adjunct appointments at various LSU campuses. Similarly, several faculty at LSU A&M, LSU Ag Center, and LSU Health Science Center in New Orleans and at teaching hospitals hold adjunct appointments at the PBRC.

The center has research programs in the areas of cancer, diabetes, epidemiology and disease prevention, genomics and molecular biology, neurobiology, neurodegeneration, nutrient sensing and cell signaling, obesity, physical activity and health, and stem cell and developmental biology. There are 19 core facilities which support over 50 laboratories within the research units of the center.

International Programs

LAKSHMAN VELUPILLAI
Associate Vice Chancellor

OFFICE • 107 Hatcher Hall
TELEPHONE • 225-578-9467
FAX • 225-578-6806
E-MAIL • lvelupillai@agcenter.lsu.edu

International Programs (IP) helps students and faculty to be internationally engaged. It strives to help students develop the international skills and perspectives needed to live and work in a global society. Activities of the IP are organized into four divisions: Academic Programs Abroad, Development and Outreach, International Services, and Business and Administration. The International Cultural Center, a student run center, is also administered by IP.

ACADEMIC PROGRAMS ABROAD

INTERIM DIRECTOR • Leder
OFFICE • 106 Hatcher Hall
TELEPHONE • 225-578-6801
FAX • 225-578-6806

Students participating in *Academic Programs Abroad* (APA) travel worldwide to study for a summer, semester, or academic year. Students earn credit toward LSU degrees and return to LSU to complete their degree. Study abroad is open to all majors.

Through overseas study, students are immersed in foreign languages and cultures, have access to course work unavailable on the home campus, develop personal independence and global awareness, and enjoy academic and travel opportunities that enrich their general education. Many students find that studying abroad gives them an advantage in the job market and in applying for graduate school. Others discover routes to international careers in business, government, law, and the arts.

Students select from a variety of options. Many join group programs led by LSU faculty, to such locations as London, Paris, Beijing, and Buenos Aires. Others participate in exchange and junior year abroad programs, which place students directly in overseas universities where they study alongside natives of the host countries. Others participate in national exchanges to over 180 U. S. universities in places such as New York, California, and Hawaii. Some students join programs offered by other U. S. schools or enroll directly at a foreign university.

Summer programs are open to all students with a 2.5 grade point average or better, regardless of classification. International semester or year-long exchanges are open to juniors with a 2.7 grade point average or better. National exchanges are open to sophomores who have a 2.5 grade point average or better.

Students receive academic credit for study abroad. In LSU faculty-led programs, students receive regular credit in LSU courses, just as they would on campus. In exchange programs and direct-enrollment programs, students earn the credits at the host institution and transfer them to LSU. Prior approval of course selection is required of all students who desire credit for overseas course work. During the period students are away on exchange, they are concurrently enrolled at LSU. *Only students who are enrolled at LSU the semester prior to the semester of study abroad are eligible for concurrent enrollment.*

Students scheduled for full-time studies abroad may use TOPS and most LSU and federal financial aid for their programs. They may also apply for the LSU Study Abroad Scholarship and other scholarships specifically for study abroad.

The best time for students to begin thinking about study abroad is during the freshman year. At this time, students can select courses to take abroad and those to complete at LSU. They can also prepare for any language or other skills necessary for the overseas experience.

Academic Programs Abroad also provides information on work and internship opportunities overseas.

Interested students are urged to contact Academic Programs Abroad, 106 Hatcher Hall, or call 335-578-6801 for information and an application.

INTERNATIONAL SERVICES

DIRECTOR • Rigby
OFFICE • 101 Hatcher Hall
TELEPHONE • 225-578-3191
FAX • 225-578-1413
E-MAIL • isograd@lsu.edu

International Services (IS) provides advisory services to international students regarding their educational, financial, immigration, personal, and social concerns. Similar services are available to international faculty and research scholars. International Services is responsible for approving clearance of F and J nonimmigrant students on financial and immigration bases. This office prepares documents necessary for F and J international students to achieve or maintain proper nonimmigrant student status in the U.S. and organizes an orientation program for all new international students. It is also responsible for U. S. government regulation compliance of Department of Homeland Security and U. S. Immigration.

All F and J nonimmigrant international students seeking permission to work on or off campus must receive approval or recommendation from this office.

The IS office assists with the coordination of the University's international student services and programs with community organizations, faculty and student groups, and governmental and private agencies. In this office, international students may apply for small, short-term emergency loans, and currently enrolled international undergraduate students enrolled at LSU for one year with exceptional grades may apply for a limited number of partial tuition waiver scholarships.

INTERNATIONAL CULTURAL CENTER

MANAGER • Hewitt
OFFICE • 3365 Dalrymple Drive
TELEPHONE • 225-342-3084
FAX • 225-342-0864
WEB SITE • www.lsu.edu/icc
E-MAIL • icc@lsu.edu

The *International Cultural Center (ICC)* is a cultural and activity center largely funded and governed by international students. Typical ICC programs include social events and excursions, workshops, music, satellite television delivery of live sports from around the world, and theater productions. Space is also available for short-term and emergency overnight accommodations for newly arrived international students and other international guests on a first-come, first-served basis. The ICC also provides pickup service for new international students at the airport or bus station, as well as assistance when needed in finding housing and obtaining a social security number.

With its computer mini-lab and new wireless connection to "LSU Secure" throughout the building, the ICC offers ideal study space until closing time at 10:00 p.m., Monday through Friday.

The ICC is also an occasional venue for rental by the general LSU and Baton Rouge community for events related to the ICC's mission of enabling international students to have a truly multidimensional experience at LSU and to promote international understanding.

DEVELOPMENT AND OUTREACH

DIRECTOR • Moody
OFFICE • Sugar Station Building
TELEPHONE • 225-578-6963
FAX • 225-578-6775
E-MAIL • mmoody@agcenter.lsu.edu
WEB SITE • www.lsu.edu/oid

Development and Outreach promotes internationally oriented research, projects, and curriculum abroad and on the campus, in order to give our University and our faculty an international presence and to make LSU students more competitive in the post-graduate world. The unit establishes international bilateral and multilateral cooperative agreements that serve as the vehicle for student, faculty, and research exchanges abroad.

Development and Outreach also provides LSU faculty with more diverse research opportunities while using LSU expertise to create two-way engagements and sustainable relationships abroad. Development and Outreach secures funding from governmental and non-governmental agencies to develop mutually beneficial outreach projects that support economic development in Louisiana and other parts of the world.

Continuing Education

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Executive Director

JOSEPH GREENBERG
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2148 Pleasant Hall
MAILING ADDRESS: 1225 Pleasant Hall
TELEPHONE • 225-578-3162
FAX • 225-578-4800
WEB SITE • www.outreach.lsu.edu

Vision

As a leading university provider of educational outreach and engagement, our vision is to help people achieve their goals and improve their quality of life, their organizations, and their communities.

Mission

The mission of LSU Continuing Education is to identify, create, and support lifelong learning opportunities through quality programs that are timely, capitalize on University expertise, and address educational needs with both credit and non-credit programs.

LSU Continuing Education serves over 36,000 registrants each year through a wide variety of credit and non-credit programs. Since 1924, CE has provided flexible, relevant educational programs to meet the needs of both traditional and nontraditional students whether on campus or across the globe. Last year, participants in our programs came from every parish in Louisiana, every state in the nation, and 28 countries.

From a world-class Management and Leadership Institute to programs designed for lifelong learners of all ages, LSU Continuing Education works to support, promote, and enhance LSU's Flagship Agenda through both face-to-face and distance delivery methods.

All programs offered through Continuing Education follow the criteria for evaluation established by the Southern Association for Colleges and Schools (SACS). Credit courses are listed on an LSU transcript along with on-campus courses. Many Professional Development courses award Continuing Education Units (CEUs). All courses are taught by LSU faculty or qualified subject matter experts.

To address the changing needs of lifelong learners, Continuing Education programs focus on four main areas: Credit Programs, Professional Development, Pre-College Programs, and Personal Enrichment.

CREDIT PROGRAMS

Continuing Education provides opportunities for nontraditional learners to enroll in LSU college credit courses. Through Independent & Distance Learning, one of the top five distance learning programs in the United States, students are able to earn credit for a wide range of credit courses at anytime, anywhere. Independent & Distance Learning serves registrants from every parish in Louisiana, every state in the U. S., and 34 countries. Intersession provides credit courses to LSU students in an intensive, condensed format. The Extended Learning program also works with LSU academic areas to offer credit courses to adults online and at their business locations, and facilitates graduate level distance-learning courses and programs throughout the state.

Independent & Distance Learning

DIRECTOR • Greenberg
OFFICE • 1225 Pleasant Hall
TELEPHONE • 225-578-3171; 800-234-5046
FAX • 225-578-3090
WEB SITE • www.outreach.lsu.edu/IDL
E-MAIL • iservices@outreach.lsu.edu

Independent & Distance Learning, one of the largest independent learning programs in the country, offers courses in both college and high school subjects taught by members of the University faculty and certified high school teachers. IDL courses attract over 13,000 enrollments annually, from individuals in every state and several countries.

College-level courses are substantially the same in scope and content as those taught on campus. Both paper-based correspondence

and online course delivery methods are offered. Enrollment in an independent learning course may be made at any time. These courses are of particular interest to college students who are unable to attend campus classes or who need the flexibility of self-paced enrollment. In addition, college-level courses are taken by high school seniors or graduates who want to earn college credit, as well as individuals working independently toward their professional and academic goals.

Further information concerning independent learning courses, requirements, and opportunities may be obtained from the *Independent & Distance Learning High School Bulletin*, and the *College Bulletin*, which are available from the IDL office or at www.outreach.lsu.edu/IDL.

Extended Learning & Intersession Programs

PROGRAM MANAGER • Evans
OFFICE • 1207 Pleasant Hall
TELEPHONE • 225-578-5090
FAX • 225-578-5305
WEB SITE • www.intersession.lsu.edu

Intersession Programs administers three intersession terms, providing additional opportunities between semesters for students to earn credits and make progress toward degree completion. These condensed terms are scheduled during the following time periods: after fall semester and before spring semester (Wintersession); after spring semester and before Summer A and B terms (Spring Intersession); after Summer A and B terms and before fall semester (Summer Intersession). Classes meet Monday through Saturday for approximately three hours daily during Intersession terms (see specific term for exact schedule of classes). Enrollment in courses offered during these condensed terms is open to currently enrolled LSU students in good standing and other students approved by the appropriate authority. Enrollment is also open to visiting students in good standing at their home institutions. Students may earn up to four hours of credit during one intersession term. Scheduling an additional intersession course beyond the four-hour maximum requires the permission of the dean's office in the student's college.

Scheduling for Intersession is completed through PAWS in accordance with the regular University registration calendar.

Programs available through *Extended Learning* include online and onsite graduate-level distance-learning courses and programs delivered statewide. Extended Learning provides student services and academic counseling to students in the program, making it possible for them to easily access services and meet requirements while at distant locations in the state.

Extended Learning, working with academic units in the University, facilitates the offering of several graduate degrees. A Master of Library Information Science degree is offered through compressed video at several

locations throughout the state. The Master of Arts in Liberal Arts is offered at Fort Polk, and the educational specialist certificate is offered in Shreveport. The School of Social Work offers the MSW degree at Natchitoches, Lake Charles, and Alexandria. Courses are taught onsite, via compressed video, or over the internet.

Master of Science and PhD of Human Resource Education & Workforce Development degrees are offered by the School of Human Resource Education and Workforce Development under the College of Agriculture. Most of the courses needed for a Master's degree and many of the courses required for a PhD with a concentration in Agricultural and Extension Education, and Youth Development (AEEYD) are available via distance learning. Courses are taught using a combination of compressed video and Web-based instruction.

Compressed video courses are available at the following LSU Agricultural Center locations: Acadia Extension Office (Crowley), Calcasieu Extension Office (Lake Charles), Calhoun Research Station (Calhoun), Camp Grant Walker (Pollock), Dean Lee Research Station (Alexandria), Jefferson Extension Office (Metairie), Red River Research Station (Bossier), Scott Research/Extension & Education Center (Winnsboro), Southeast Research Station (Franklinton), Terrebonne Extension Site (Houma), and West Carroll Extension Office (Oak Grove).

In addition, a program sponsored by the U. S. Army Corps of Engineers at the Waterways Experiment Station in Vicksburg, Mississippi, represents a consortium of LSU, Texas A&M, and Mississippi State University, with each school providing doctoral courses in various scientific disciplines.

PROFESSIONAL DEVELOPMENT

Serving the needs of working adults, Continuing Education's Professional Development programs deliver cutting-edge knowledge applicable to today's workforce, in convenient formats and locations.

The programs are designed to build on the strengths and expertise of the LSU faculty and their academic and research units for the purpose of helping participants become more effective in their professional roles. The vast majority of programs are presented by teams comprised of select LSU faculty and proven professionals from business, industry, academia, and leading consulting firms from across the nation. LSU Professional Development's programmatic activities increasingly serve as a major vehicle for knowledge and technology transfer.

Computer & Information Technology

PROGRAM MANAGER • Anthony
OFFICE • 1199 Pleasant Hall
TELEPHONE • 225-578-3313
FAX • 225-578-6324
WEB SITE • www.outreach.lsu.edu

LSU Computer & Information Technology provides non-credit training in computer operating systems, productivity software, programming languages, Web site

development, computer-aided design (CAD), and networking. Courses feature hands-on instruction in up-to-date computer labs. Customized and on-site training is available.

Expert instructors present an array of technical certification programs for professionals. Each brings an in-depth knowledge of the topic, excellent communication skills, and experience in the real world.

Management and Leadership Institute

PROGRAM MANAGER • Verma
OFFICE • 1196 Pleasant Hall
TELEPHONE • 225-578-4316
FAX • 225-578-6324
WEB SITE • www.outreach.lsu.edu

Programs in Continuing Education's *Management and Leadership Institute* feature some of the latest research in management and supervisory training, and are backed by Continuing Education's history of more than forty years of providing professional development in the areas of supervisory effectiveness and organizational leadership.

Recognizing that today's leaders must be able to manage individual employees as well as the overall business, these programs are a comprehensive personal and professional development experience covering a range of management competencies, including public speaking and finance.

Paralegal Studies

PROGRAM MANAGER • DesHotels
OFFICE • 1200 Pleasant Hall
TELEPHONE • 225-578-6760; 800-256-1530
FAX • 225-578-6761
WEB SITE • www.outreach.lsu.edu

The *Paralegal Studies Program* is approved by the American Bar Association and is an outgrowth of Continuing Education's paralegal course offerings begun in 1982. The program offers a noncredit certificate for individuals seeking careers as paralegals. A bachelor's degree is recommended for admittance to the program, but students with 45 hours of college credit are eligible for admission. The program features evening classes and can be completed in one year. The courses are taught by attorneys, judges, and practicing paralegals.

The Legal Secretary Certificate Program and Notary Public Preparatory Course are other programs in the paralegal department. There are no entrance requirements; however, students who are interested in becoming legal secretaries must have excellent keyboarding skills. Law classes, computer classes, a writing class, and an ethics class are part of the legal secretary certificate program.

The Notary Public Preparatory Course meets once a week for 10 weeks in the evening. It prepares students to take the state notary public exam administered by the Secretary of State's office.

PRE-COLLEGE PROGRAMS

ASSOCIATE DIRECTOR • Hawkes
OFFICE • 2165 Pleasant Hall
TELEPHONE • 225-578-3198

Pre-College & Youth Non-credit Programs

COORDINATOR • Carlson
OFFICE • 2519 Pleasant Hall
TELEPHONE • 225-578-6672
FAX • 225-578-4800
WEB SITE • www.outreach.lsu.edu/pre-college

Pre-college & Youth Programs conducts numerous programs for young people of pre-college age. Offerings include major summer programs, such as mini-courses for gifted and high achieving youth, Youth Academy, Camp Challenge, and various summer camps and courses.

Science & Engineering Fairs

COORDINATOR • Johnson
OFFICE • 2167 Pleasant Hall
TELEPHONE • 225-578-1067
FAX • 225-578-4800
WEB SITE • www.outreach.lsu.edu/lsef

The *Louisiana Science & Engineering Fair* and the *Region VII Science & Engineering Fair* are LSU-based educational programs that provide unique opportunities for public and private school students in grades six through twelve. Through development and presentation of science and engineering projects, students enhance their abilities to make observations; ask questions regarding scientific phenomena; formulate ideas regarding the solution to a program; develop and carefully follow procedures related to finding an answer or solution to a problem; and effectively present their works to society.

High School Credit Programs

PROGRAM MANAGER • Coleman
OFFICE • 1225 Pleasant Hall
TELEPHONE • 225-578-3171; 800-234-5047
FAX • 225-578-3524
WEB SITE • www.outreach.lsu.edu
E-MAIL • study@outreach.lsu.edu

High School Independent & Distance Learning

High school instruction through LSU Independent & Distance Learning offers high school students a program of study that can be followed at home at their own pace. High school credit courses may be undertaken by students to earn credit in courses not offered by local school systems, to supplement or make up required credits, or to enrich academic programs.

Independent & Distance Learning also offers a high school diploma option. Persons who are 18 or older and who have been out of high school for one full semester may complete their academic requirements and receive a diploma from University Laboratory School. In accordance with Louisiana Department of Education guidelines, graduation guidelines are those that were in effect the year the individual entered high school.

Further information concerning independent learning courses, requirements, and opportunities may be obtained from the *IDL High School Bulletin and Student Handbook* available from Independent & Distance Learning or at www.is.lsu.edu.

Honors High School Credit Program

The Honors High School Credit program offers ambitious middle and high school students the chance to earn a unit of honors high school credit in just six weeks during the summer. Excellent, enthusiastic, certified teachers provide instruction on the LSU campus. Courses are offered in math, science and several computer electives.

PERSONAL ENRICHMENT PROGRAMS

Osher Lifelong Learning Institute

COORDINATOR • Hamilton
OFFICE • 2161 Pleasant Hall
TELEPHONE • 225-578-4540

The first and only Osher Lifelong Learning Institute in Louisiana, OLLI at LSU houses the University's successful Lagniappe Studies Unlimited program. OLLI at LSU is one of 111 other institutes located on university and college campuses throughout the 47 states and the District of Columbia. The Osher Foundation funding supports educational programs for people over 50—many of whom are entering retirement—providing them with the opportunity to re-tool their skills for the future, explore new topics, discuss current events and actively engage with peers from all walks of life.

Lagniappe Studies Unlimited

COORDINATOR • Wells
OFFICE • 2168 Pleasant Hall
TELEPHONE • 225-578-6763
FAX • 225-578-7533
WEB SITE • www.outreach.lsu.edu

Lagniappe Studies Unlimited is Louisiana's first and only "learning in retirement" program. Founded within LSU Continuing Education in 1996, Lagniappe Studies is a member-directed educational organization for persons 50 years and older. The program has over 750 members and last year alone conducted nearly 80 courses attracting more than 2,500 participants.

Noncredit courses range from Spanish for Travelers and Advanced French, to Backstage at the Symphony and Digital Photography, offered at convenient off-campus locations during the day. Members participate as students and also have opportunities to teach courses and serve on committees. The program is affiliated with the Elderhostel Institute Network and the Bernard Osher Foundation.

Public Service

DIRECTOR • Maxcy
OFFICE • 2156 Pleasant Hall
TELEPHONE • 225-578-6263
FAX • 225-578-4800
WEB SITE • www.outreach.lsu.edu

In support of LSU's Flagship Agenda in ever-changing times, Continuing Education's Public Service Office strives to secure alternative funding sources to support new programs. Federal and private funding sources are targeted to initiate programs that meet identified needs and expand the engagement of Continuing Education's team of professionals to improve the quality of life for Louisiana citizens, their organizations and communities.

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Reserve Officers Training Corps

FREDERICK I. GUENDEL, JR.
Professor of Aerospace Studies
105 Military Science-Aerospace Studies
Building
TELEPHONE • 225-578-4407
FAX • 225-578-4537

JOHN A. WRIGHT
Professor of Military Science
106 Military Science-Aerospace Studies
Building
TELEPHONE • 225-578-2371
FAX • 225-578-3560

The Reserve Officers Training Corps program at LSU continues the military heritage that has been part of this institution since 1860.

The Army and Air Force ROTC programs are offered for men and women. Through a cross-enrollment agreement between LSU and Southern University, LSU students may also participate in Navy ROTC. Participation in these programs is optional. These programs develop selected college-educated students for positions of responsibility and leadership in the U.S. armed forces and offer students an educational experience not otherwise available at this University.

Military Science and *Aerospace Studies* are the titles of the Army and Air Force ROTC programs, respectively. Military science, aerospace studies, and naval science are recognized electives, and students may choose to pursue Army, Air Force, or Navy curricula. Prior to graduation, Army ROTC cadets must take courses in military history and pass a combat water survival test.

Both Army and Air Force ROTC conduct two- and four-year programs. The Air Force has also added a one-year program. Successful completion of any of one-, two-, or four-year program will result in the student being offered a commission in the appropriate service. In addition, scholarship programs that cover University fees, books, laboratory fees, and related academic expenses and include a monthly subsistence allowance are available for selected students. Students enrolled in the Army ROTC program may compete for scholarships of two-, three-, three-and-one-half-, or four-year duration. Students enrolled in Air Force ROTC may compete for scholarships of two, three, three and one half, or four years' duration. LSU supplements all ROTC scholarships with an honor award covering residence hall costs.

ELIGIBILITY

In order to be considered for enrollment in an ROTC program, a student:

- must be full-time;
- must be a U.S. citizen or an applicant for naturalization;
- must have good moral character as required by military regulations;
- (for the advanced program) must be physically qualified to participate as prescribed by the Department of Defense;
- must be at least 14 years of age upon enrollment in the Air Force ROTC program, at least 17 years of age upon enrollment in the Army ROTC program, and at least 17 years of age upon enrollment in the Naval ROTC program;
- must be under 30 years of age at the time of commissioning (selected cases may be waived to age 35); and
- must take and sign the Oath of Allegiance.

FOUR-YEAR PROGRAM

The four-year program is divided into two phases—the freshman/sophomore phase and the junior/senior phase. These two phases are officially called the *Basic* and *Advanced Course* by the Army; the Air Force designates them as the *General Military Course* and the *Professional Officer Course*. Students who have completed the freshman/sophomore phase may apply for the junior/senior phase. Selection for enrollment into the latter is made from those who have demonstrated that they possess the qualities necessary to qualify for a commission, including satisfactory performance on the Air Force Officer Qualifying Test for the Air Force program.

Veterans and students who had junior ROTC training while in high school may be granted placement credit for the freshman and sophomore phase and may enter the junior and senior phase if their application is approved by the Professor of Military Science or the Professor of Aerospace Studies.

MILITARY OBLIGATION

Except for ROTC scholarship cadets or contract cadets, LSU students do not incur a military obligation by enrolling in the Army ROTC Basic Course or the Air Force ROTC General Military Course.

TWO-YEAR PROGRAM

The two-year program extends the advantages of ROTC to junior-college graduates, transfer students, graduate students, and LSU students who did not enroll in the freshman/sophomore phase. Upon successful completion of a five-week summer training period, the student applying for the two-year program may enter the junior/senior phase.

CADET PAY

Students enrolled in the last two years of either ROTC program or who are under contract with the respective service will receive a monthly tax-free subsistence allowance during each academic year. During the required four- to seven-week training period (normally between the junior and senior years for Army ROTC and between the sophomore and junior years for Air Force ROTC), students will receive one-half the pay of a second lieutenant plus travel expenses.

ARMY ROTC SUMMER TRAINING

Army ROTC Advanced Course cadets attend a five-week camp between the junior and senior years of college. At this camp cadets receive training and evaluation in troop leadership, marksmanship, land navigation, small unit tactics, physical training, and adventure training. In addition to this camp, cadets have the opportunity to attend Airborne School, Air Assault School, Northern Warfare School, and Cadet Troop Leadership

Training.

AIR FORCE FIELD TRAINING

Air Force ROTC field training is offered during the summer months at Maxwell Air Force Base in Montgomery, Alabama. Students in the four-year program participate in four or five weeks of field training prior to enrollment in the Professional Officer Course. The major areas of study in the four-week field training program include junior officer training, aircraft and aircrew orientation, career orientation, survival training, base functions and Air Force environment, and physical training. The major areas of study included in the five-week field training program are essentially the same as those conducted at the four-week field training and in the General Military Course. Field training normally occurs between the sophomore and junior years.

ARMY SIMULTANEOUS MEMBERSHIP PROGRAM (SMP)

This program combines service in the Army National Guard or U.S. Army Reserve with enrollment in the Army ROTC program. It is open to eligible Guardsmen and Reservists who have attained sophomore academic standing. ROTC cadets also may enter this program after entering the Advanced Course. SMP participants will attend ROTC instruction and train with their military unit one weekend per month and two weeks in summer.

SMP participants will receive the ROTC subsistence allowance, plus the equivalent of a sergeant's pay for the monthly drill attendance and two weeks annual training. They will also receive the tuition exemption extended to all Louisiana residents in the Louisiana Army National Guard who maintain a 2.00 gpa. At the end of the Advanced ROTC program, these students will apply for commissions in the Active Army, Army National Guard, or the Army Reserve.

THE NAVAL RESERVE OFFICERS TRAINING CORPS

Through a cross-enrollment agreement between LSU and Southern University, LSU students are eligible to enroll in the Naval Reserve Officers Training Corps (NROTC) leading to a commission in the U.S. Navy or Marine Corps. Openings are available in the four-, three-, or two-year programs. NROTC is open to all students; naval science courses are taught on the Southern University campus. There is no additional cost to full-time LSU students to cross-enroll in the NROTC program. Students incur no obligation while participating in the freshman and sophomore years. NROTC scholarship appointments are available to college students enrolled in the program who demonstrate satisfactory academic performance and aptitude for commissioned service.

Midshipmen are required to complete two semesters of mathematics courses (college algebra or above) and two semesters of a physical science in addition to naval science courses. Scholarship students have the additional requirement of completing two semesters of calculus (MATH 1550 and 1552) and two semesters of physics (PHYS 2101 and 2102). Students who are in the second year of college, have completed one year of mathematics, and are in good academic standing are eligible to attend the Naval Science Institute (NSI) in Newport, Rhode Island. Successful completion of NSI, an academic and professional naval science program held for six weeks in the summer, qualifies students for enrollment in advanced NROTC courses and enables them to compete for a two-year NROTC scholarship. All costs for attending NSI are paid by the Navy, and students attending are under no obligation.

Naval ROTC offers a wide range of career opportunities including naval aviation (Navy and Marine Corps); submarine, surface, and special warfare (Navy); and combat arms and combat service support (Marine Corps).

Information on the naval science curriculum and a listing of naval science courses may be found in the Southern University catalog. Additional details may be obtained from the Professor of Naval Science/Commanding Officer, NROTC Unit, Southern University, P. O. Box 9214, Baton Rouge, Louisiana 70813; 225-771-4370; FAX 225-774-3604.

LSU–Southern University Cooperative Programs

LSU and Southern University have conducted cooperative programs for a number of years. A student exchange program began in 1970, and exchange of faculty and cooperation in research have also occurred. In recent years, the number and extent of cooperative efforts between the two institutions have greatly increased.

STUDENT EXCHANGE

LSU and SU students may take courses at the other institution under an expanded and simplified cross-registration program between the two universities. This program enables students to take courses not available at the institution where they matriculate. Both full-time and part-time students are eligible to participate. Full-time students pay no additional fees; part-time students pay fees based on the total number of hours for which they are registered. Cross-registration tuition exemptions do not apply to Continuing Education courses, or to the special fees attached to some courses.

Work taken at Southern University is recorded as transfer credit, as is all course work taken outside the LSU System.

Interested students can obtain information from the Office of the University Registrar at LSU, the Registrar's Office at SU, and the offices of academic deans at both institutions.

LIBRARY PRIVILEGES

Participants in the faculty and student exchange are allowed the same library privileges granted to members of the faculty and student body at the home institution. Students and faculty not participating in these exchanges also have access to the library at the other institution.

ACADEMIC PROGRAMS

Chemistry and Chemical Engineering

This program enables a student to earn a Bachelor of Science degree with a major in chemistry from Southern University and a Bachelor of Science in Chemical Engineering degree from LSU within a period of approximately five years. At least three-fourths of the hours required for the Southern University bachelor's degree must be earned at Southern University. The student may then be admitted to LSU to complete requirements for the Bachelor of Science in Chemical Engineering degree. Such students qualify for all benefits of the student exchange program.

Computer Science

When LSU began offering the PhD in computer science in 1983, an agreement of cooperation was signed between LSU and Southern University. This agreement specified articulation guidelines for the doctoral program, the master's program in system science, and SU's master's program in computer science.

The project, *Career-Oriented Research Workshops in Computer Science for Undergraduates*, funded by the NSF-EPSCOR Program, encourages beginning undergraduate students from SU and LSU to pursue careers in the field of computer science. One of the ways

this goal is accomplished is by exposing selected students to computer science via research workshops at LSU's Robotics Research Laboratory. Students from SU and LSU who have completed one of these workshops are encouraged to continue involvement in work-study programs with industry and academia.

Also, the Department of Computer Science, the National Center for Security Research and Training, and the Office of Strategic Initiatives at Louisiana State University in collaboration with Southern University and Louisiana Tech University have a new project awarded by NSF entitled, *Collaborative Project: Faculty Development—Multi University Research and Training in Information Assurance and Computer Security*. The focus of this research and training project is to increase the educational and pedagogical opportunities for academically talented faculty in information assurance and security. The focus of this research and training is to increase the number of U.S. citizens, including members of under-represented groups, who will advance their teaching and research in the emerging areas of information assurance and security. The targeted participants are 16 faculty scholars (approximately half minority and female) per year for two years. The selected Faculty Scholars participate in a series of faculty development activities that include a summer workshop, national lab/research center visits, academic year mini-grants, and a conference in information assurance and computer security.

Environmental Sciences

The Master of Science degree in environmental sciences, a cooperative, multi-disciplinary program between LSU and SU, requires a minimum of 30 semester hours of course work and six hours of thesis research. Four options are available: environmental toxicology, and environmental planning and management offered at LSU, and environmental biology and environmental chemistry offered at SU. A graduate student at either institution may register for any of the four options. Four core courses are common to all options and must be taken by all students. Different areas of concentration permit the design of individual and specialized job-oriented programs.

Mechanical and Petroleum Engineering

SU students enrolled in the mechanical engineering curriculum may elect a petroleum engineering option. Such students take six credit hours of specified chemistry courses at SU and 12 hours of specified petroleum engineering courses at LSU.

Naval Science

Through a cross-enrollment agreement between LSU and SU, LSU students are eligible to enroll in the SU Naval Reserve Officers Training Corps leading to a commission in the U.S. Navy or Marine Corps. Naval ROTC is open to all students, and many naval science courses are taught on the LSU campus. For additional information, see the "Reserve Officers Training Corps" section of this catalog.

Courses of Instruction

The following is a listing of all courses of instruction offered by departments at LSU. This listing was up-to-date and as correct as possible at the time of publication of this catalog.

Since this catalog was prepared well in advance of its effective date, some courses may have been added, others may have been dropped, and/or changes in content may have been made.

The following are important notes concerning courses:

- General education courses are designated by stars (★) placed before the course numbers.
- Class minima are specified in PS-37, *Minimum Class Size*:
 - « Below 4000..... 15
 - « Between 4000-4999 10
 - « 5000 and above..... 5
- No credit is given for a course unless the student has been duly registered in that course.
- The amount of credit given for the satisfactory completion of a course is based on the number of lectures each week for one semester:
 - « one credit represents at least one hour of lecture a week for one semester;
 - « two hours of laboratory (in some cases, three) are the equivalent of one hour of lecture.
- When a course consists entirely or partly of laboratory, that fact is stated in the description. *When not otherwise specified, the course consists entirely of lectures.*
- The number of credit hours that a course carries per semester is listed in parentheses following the course title. If the number listed is variable, i.e., (2-4), *the amount of credit that the student is to receive must be stated at the time of registration.*
- Indication of variable credit does not mean that a course may be repeated for credit. If a course can be repeated for credit, that information is included in the course description.
- Listing of a course does not necessarily mean that it will be offered every year. Some departments indicate in the course description the semester in which a course is usually offered. (See *Key to Course Information* on the next page.) If no information is given, students should contact the department to determine when the course is to be offered.
- The phrases *also offered as...*, *see...*, or *same as...*, which appear in some course descriptions, refer to honors courses or to cross-listed courses that are available through more than one department. In each of these instances, only one of the courses may be taken for credit.

COURSE NUMBERING SYSTEM

An explanation of the first digit of the four-digit course numbering system follows. The meaning of the second, third, and fourth digits varies by department. See "Year Classification of Students" in the "Undergraduate Degree Requirements and Regulations" section of this catalog for an explanation of the criteria for classification as a freshman, sophomore, etc.

0001-0999 • Offered by the University to strengthen students' facility in certain basic skills; not for degree credit.

1000-1999 • For undergraduate students, primarily freshmen; *for undergraduate credit only*. Ordinarily open to all students; in some instances upper-division students may not take these courses for degree credit.

2000-2999 • For undergraduate students, sophomore level or above; *for undergraduate credit only*.

3000-3999 • For advanced undergraduate students, junior- and senior-level; *for undergraduate credit only*. These courses constitute the advanced portion of an undergraduate program leading to the bachelor's degree. A student with fewer than 60 hours of credit may enroll in 3000-level courses if they meet the enrollment requirements of the college whose departments offer the courses.

4000-4999 • For advanced undergraduate students (who have completed a minimum of 60 semester hours) and students in graduate and professional schools and colleges; *for undergraduate or graduate credit*. Undergraduates with 30 or more semester hours who are making timely progress toward a degree may be admitted to 4000-level courses. Such students must have a 3.50 gpa or higher, the appropriate prerequisites, consent of the instructor, and permission of the dean of the student's undergraduate college.

5000-5999 • For students in *post-baccalaureate professional programs (architecture, law, and veterinary medicine)*. A student in the Graduate School may take these courses for credit with approval of the student's major department.

6000-6999 • Exclusively *for teachers* at the elementary, secondary, and junior college levels.

7000-7999 • For students in the Graduate School; *for graduate credit only except as follows*. Undergraduates with 75 or more semester hours who are making timely progress toward a degree may be admitted to 7000-level courses. Such students must have a 3.50 or higher gpa, the appropriate prerequisites, consent of the instructor, and permission of the dean of the student's undergraduate college. Credit so earned will apply only toward undergraduate degree requirements, except for students enrolled in an accelerated master's degree program.

8000-8999 • Research courses exclusively for graduate students, primarily for students working toward the master's degree; *for graduate credit only*. The number 8000 designates thesis research.

9000-9999 • Research courses exclusively for graduate students, primarily for advanced graduate students working toward the doctoral degree; *for graduate credit only*. The number 9000 designates dissertation research.

COURSE DESIGNATIONS AND RUBRICS		
DESIGNATION	RUBRIC	DEPARTMENT
Accounting	ACCT	Accounting
Aerospace Studies	ASST	Aerospace Studies
African & African American Studies	AAAS	Arts & Sciences (College of)
Agricultural Economics	AGEC	Agricultural Economics & Agribusiness
Agriculture	AGRI	Agriculture (College of)
Agronomy	AGRO	Agronomy
Animal Science	ANSC	Animal Science (School of)
Anthropology	ANTH	Geography & Anthropology
Arabic	ARAB	Foreign Languages & Literatures
Architecture	ARCH	Architecture (School of)
Art	ART	Art (School of)
Art History	ARTH	Art (School of)
Astronomy	ASTR	Physics & Astronomy
Basic Sciences	BASC	Basic Sciences (College of)
Biological Engineering	BE	Biological & Agricultural Engineering
Biological Sciences	BIOL	Biological Sciences
Business Administration	BADM	Business Administration (E. J. Ourso College of)
Business Communication	BCOM	Management (Rucks Department of)
Business Law	BLAW	Finance
Chemical Engineering	CHE	Chemical Engineering
Chemistry	CHEM	Chemistry
Chinese	CHIN	Foreign Languages & Literatures
Civil Engineering	CE	Civil & Environmental Engineering
Classical Studies	CLST	Foreign Languages & Literatures
Communication Disorders	COMD	Communication Sciences & Disorders
Communication Studies	CMST	Communication Studies
Comparative Biomedical Sciences	CBS	Comparative Biomedical Sciences
Comparative Literature	CPLT	Comparative Literature (Interdepartmental Program in)
Computer Science	CSC	Computer Science
Construction Management	CMST	Construction Management & Industrial Engineering
Curriculum & Instruction	EDCI	Educational Theory, Policy & Practice
Dairy Science	DARY	Dairy Science
Disaster Science and Management	DSM	Arts & Sciences (College of)
Economics	ECON	Economics
Education	EDUC	Education (College of)
Educational Leadership, Research & Counseling	ELRC	Educational Theory, Policy & Practice
Electrical Engineering	EE	Electrical & Computer Engineering
Engineering	ENGR	Engineering (College of)
English	ENGL	English
Entomology	ENTM	Entomology

COURSE DESIGNATIONS AND RUBRICS		
DESIGNATION	RUBRIC	DEPARTMENT
Environmental Engineering	EVEG	Civil & Environmental Engineering
Environmental Management Systems	EMS	Agronomy
Environmental Sciences	ENVS	Environmental Sciences
Experimental Statistics	EXST	Experimental Statistics
Film & Media Arts	FMA	Arts & Sciences (College of)
Finance	FIN	Finance
Food Science	FDSC	Food Science
French	FREN	French Studies
Geography	GEOG	Geography & Anthropology
Geology	GEOL	Geology & Geophysics
German	GERM	Foreign Languages & Literature
Greek	GREK	Foreign Languages & Literature
Hebrew	HEBR	Foreign Languages & Literature
History	HIST	History
Honors	HNRS	Honors College
Horticulture	HORT	Horticulture
Human Ecology	HUEC	Human Ecology (School of)
Human Resource Education	HRE	Human Resource Education & Workforce Development (School of)
Industrial Engineering	IE	Construction Management & Industrial Engineering
Information Systems & Decision Sciences	ISDS	Information Systems & Decision Sciences
Interior Design	ID	Interior Design
International Studies	INTL	Arts & Sciences (College of)
Italian	ITAL	Foreign Languages & Literature
Japanese	JAPN	Foreign Languages & Literature
Kinesiology	KIN	Kinesiology
Landscape Architecture	LA	Landscape Architecture (School of)
Latin	LATN	Foreign Languages & Literature
Liberal Arts	LIBA	Arts & Sciences (College of)
Library & Information Science	LIS	Library & Information Science (School of)
Life Course and Aging	LCA	Arts & Sciences (College of)
Linguistics	LING	Linguistics (Interdepartmental Program in)
Management	MGT	Management (Rucks Department of)
Marketing	MKT	Marketing
Mass Communication	MC	Mass Communication (Manship School of)
Mathematics	MATH	Mathematics
Mechanical Engineering	ME	Mechanical Engineering
Medical Physics	MEDP	Physics & Astronomy
Military Science	MILS	Military Science
Music	MUS	Music (School of)

COURSE DESIGNATIONS AND RUBRICS		
DESIGNATION	RUBRIC	DEPARTMENT
Music Education	MUED	Music (School of)
Nuclear Science	NS	Physics & Astronomy
Oceanography & Coastal Sciences	OCS	Oceanography & Coastal Sciences
Pathobiological Sciences	PBS	Pathobiological Sciences
Petroleum Engineering	PETE	Petroleum Engineering
Philosophy	PHIL	Philosophy & Religious Studies
Physical Science	PHSC	Physics & Astronomy
Physics	PHYS	Physics & Astronomy
Plant Health	PLHL	Plant Pathology & Crop Physiology
Political Science	POLI	Political Science
Portuguese	PORT	Foreign Languages & Literature
Poultry Science	PLSC	Poultry Science
Psychology	PSYC	Psychology
Public Administration	PADM	Public Administration (Institute)
Religious Studies	REL	Philosophy & Religious Studies
Renewable Natural Resources	RNR	Renewable Natural Resources (School of)
Russian	RUSS	Foreign Languages & Literatures
Social Work	SW	Social Work (School of)
Sociology	SOCL	Sociology
Spanish	SPAN	Foreign Languages & Literatures
Swahili	SWAH	Foreign Languages & Literatures
Systems Science	SYSC	Computer Science
Theatre	THTR	Theatre
University	UNIV	Academic Affairs (Office of)
University College	UC	University College
University Studies	UNST	Arts & Sciences (College of)
Veterinary Clinical Sciences	VCS	Veterinary Clinical Sciences
Veterinary Medicine	VMED	Veterinary Medicine (School of)
Veterinary Science	VETS	Veterinary Science
Women's & Gender Studies	WGS	Arts & Sciences (College of)

KEY TO COURSE INFORMATION	
★	General Education Course
ACCT	Course rubric
F	Course offered in fall
S	Course offered in spring
Su	Course offered in summer
E	Course offered in even-numbered years (calendar years)
Y	Course offered yearly
O	Course offered in odd-numbered years (calendar years)
V	Course offered irregularly
F,S,Su	Course offered in fall, spring, and summer

ACCOUNTING • ACCT

2000 Survey of Accounting (3) *Credit will not be given for both this course and ACCT 2001 or 2002. Students in non-business curricula are advised to enroll in ACCT 2000 if they are given the option of ACCT 2000 or ACCT 2001, unless they plan to pursue a business degree at a subsequent date. All students in the E. J. Ourso College of Business are required to take ACCT 2001. Introduction to the meaning of the values presented in financial statements; management accounting concepts and internal decision making; fundamentals of individual income taxes.*

2001 Introductory Financial Accounting (3) *Prereq.: MATH 1021 or equivalent. An honors course, ACCT 2002, is also available. Credit will not be given for both this course and ACCT 2000 or ACCT 2002. Required of all students in the E. J. Ourso College of Business. Students in nonbusiness curricula are advised to enroll in ACCT 2000 if they are given the option of ACCT 2000 or ACCT 2001, unless they plan to pursue a business degree at a subsequent date.*

Financial accounting with emphasis on knowledge required for completion of the accounting cycle, including income measurement and financial statement preparation; accounting for current and plant assets, current and long-term liabilities, stockholders' equity, and cash flows.

2002 HONORS: Introductory Financial Accounting (3) *Same as ACCT 2001, with special honors emphasis for qualified students. Credit will not be given for this course and ACCT 2000 or ACCT 2001.*

2101 Introductory Managerial Accounting (3) *Prereq.: ACCT 2000 or 2001 or equivalent. An honors course, ACCT 2102, is also available. Credit will not be given for both this course and ACCT 2102. Principles and methods of accounting primarily concerned with data gathering and presentation for purposes of internal management evaluation and decision making.*

2102 HONORS: Introductory Managerial Accounting (3) *Same as ACCT 2101, with special honors emphasis for qualified students. Credit will not be given for this course and ACCT 2101.*

3001 Intermediate Accounting—Part I (3) *Prereq.: grade of "C" or above in ACCT 2101; MATH 1431. College of Business students or permission of department. An honors course, ACCT 3002, is also available. Credit will not be given for both this course and ACCT 2021 or ACCT 3002. Accounting principles underlying preparation of financial statements; their application in measurement and reporting of selected balance-sheet items and related revenue and expense recognition.*

3002 HONORS: Intermediate Accounting—Part I (3) *Same as ACCT 3001, with special honors emphasis for qualified students. Credit will not be given for this course and ACCT 3001.*

3021 Intermediate Accounting—Part II (3) *Prereq.: grade of "C" or above in ACCT 3001. Continuation of ACCT 3001. Accounting for liabilities, income taxes, pensions, leases, stockholders' equity, earnings per share, accounting changes and corrections of errors, and income and balance sheet presentations.*

3121 Cost Analysis and Control (3) *Prereq.: grade of "C" or above in ACCT 3001. Nature, objectives, basic systems, and procedures of cost accounting and control for manufacturing firms; cost-volume-profit relationships; standard costs and variance analysis; direct costing; relevant costs; activity-based costing.*

3122 Accounting Information Systems (3) *Prereq.: grade of "C" or above in ACCT 3001 and ISDS 1100 or ISDS 1101 or ISDS 1102. Majors only or permission of department. Analysis and design of standard accounting systems; emphasis on computerized systems and internal control issues.*

3201 Fundamental Tax Problems and Tax Planning for Individuals (3) *Not open to accounting majors. Not intended to satisfy the requirements to sit for the CPA exam. For students with little or no previous work in accounting. Credit will not be given for both this course and ACCT 3221.*

General course in taxation; emphasis on aspects of taxation affecting the individual; federal and state income, estate, inheritance, gift, excise, and payroll taxes.

3221 Income Tax Accounting I (3) *Prereq.: registration in or grade of "C" or above in ACCT 3001. Credit will not be given for both this course and ACCT 3201. Fundamentals of federal income taxation with respect to individuals and other entities, income inclusions and exclusions, and statutory deductions in arriving at tax liability.*

3222 Auditing (3) *Prereq.: grade of "C" or above in ACCT 3021 and 3122. Theoretical and practical development of the independent audit function; generally accepted auditing standards; collection and evaluation of audit evidence; understanding internal control; risk assessment; transaction cycles; and reporting.*

3233 Internal Auditing I (3) *Internal auditing standards, ethics, concepts, audit techniques, and reporting practices.*

4021 Cases in Accounting Policy (3) *Prereq.: accounting major with senior standing. Case approach; integrates financial accounting, systems, auditing, income tax, and management uses of accounting information; emphasis on financial reporting to owners, the financial community, regulatory agencies, and the general public; relationship of accounting to the law.*

4022 Advanced Accounting (3) *Prereq.: grade of "C" or above in ACCT 3021. Completion of the core financial accounting sequence; business combinations, consolidated financial statements, segment reporting, foreign operations, and Securities and Exchange Commission procedures.*

4121 Advanced Cost Analysis (3) *Prereq.: grade of "C" or above in ACCT 3121. Measurement, interpretation, planning, and control of manufacturing and distribution costs; budgets and budgetary control; comparison of costs of business alternatives.*

4221 Income Tax Accounting II (3) *Prereq.: grade of "C" or above in ACCT 3221; MS in accounting students or permission of department. Credit will not be given for both this course and ACCT 7203. Fundamentals of federal income taxation, with respect to partners, partnerships, corporations, and shareholders.*

4225 Research in Federal Income Taxation (3) *Prereq.: registration in or grade of "C" or above in ACCT 3221. MS in accounting students or permission of department. Credit will not be given for this course and ACCT 7210. Techniques and procedures involved in tax planning and research.*

4231 Internship in Accounting (3) *Prereq.: permission of instructor and department chair required. Grade of "C" or above in ACCT 3021. Credit will not be given for this course and ACCT 4333 or 7231 or 7333. Pass-fail grading. At least 20 hours per week (3 credits) of learning experience in accounting under the general supervision of a faculty member and direct supervision of a professional in accounting. Grading based on the faculty member's evaluation, a written report by the professional supervisor, and a written report by the student.*

4232 Advanced Auditing (3) *Prereq.: grade of "C" or above in ACCT 3222; MS in accounting students or permission of department. Independent auditor's legal and ethical obligations to society; responsibility for the detection and reporting of fraud; statistical sampling concepts and applications; extensions of the auditor's function including operational auditing, compliance auditing, and reporting on other types of financial and nonfinancial information.*

4233 Case Studies in Auditing (3) *Prereq.: grade of "C" or above in ACCT 3233. Case studies in operational, compliance, and financial audits.*

4234 Internal Auditing II (3) *Prereq.: grade of "C" or above in ACCT 3233. Operation, organization, and quality control audits; organization theory.*

4235 Fraud Auditing and Forensic Accounting (3) *Prereq.: grade of "C" or above in ACCT 3001; MS in accounting students or permission of department. Credit will not be given for this course and ACCT 7235. Proactive and reactive fraud auditing including audit committee and liability related issues; investigative decision making for prevention, detection, investigation, and reporting of fraud.*

4236 Environmental and Safety Auditing (3) *Prereq.: grade of "C" or above in ACCT 3233. Compliance and legal issues relative to environmental laws and safety regulations; emphasis on current laws and compliance auditing methodology.*

4244 EDP Auditing (3) *Prereq.: grade of "C" or above in ACCT 3222 or 3233; MS in Accounting students or permission of department. Credit will not be given for this course and ACCT 7244 or ISDS 4244. Electronic data processing (EDP) control, audit applications, and generalized audit software systems.*

4333 Internship in Internal Auditing (3) *Prereq.: permission of instructor and department chair required. Credit will not be given for this course and ACCT 4231 or 7231 or 7333. Pass-fail grading. At least 20 hrs. per week of learning experience in internal auditing under the general supervision of a faculty member and direct supervision of a professional in internal auditing. Grading based on the faculty member's evaluation, a written report by the professional supervisor, and a written report by the student.*

4421 Governmental and Not-for-Profit Accounting (3) *Prereq.: grade of "C" or above in ACCT 3001. Credit will not be given for this course and ACCT 7421. Accounting, budgeting, fiscal processes, and financial records of local, state, and federal governmental bodies and of private nonprofit institutions.*

4501 Petroleum Accounting (3) *Prereq.: grade of "C" or above in ACCT 3021 and 3121; MS in accounting students or permission of department. Accounting for oil and gas exploration and production; accounting for oil and gas leases, exploration costs, undeveloped properties, drilling and development operations, production, and oil and gas revenues.*

7021 Advanced Theory of Accounts (3) *Prereq.: ACCT 3021 and consent of instructor; or ACCT 4022. MS in accounting students or permission of instructor. Corporate reporting strategies and practices by managers; preparation of financial statements; interpretation of corporate financial reports.*

7122 Budgeting, Cost Analysis, and Control (3) *Prereq.: ACCT 3121. Use of external accounting systems for decision-making and control.*

7201 Tax Aspects of Business Entities (3) *Prereq.: ACCT 3021 or equivalent. Basic concepts of business entities, including corporations, partnerships, and S corporations; tax consequences of the formation and operation of a business entity, and distributions to the owners.*

7202 Income Taxation of Equity Exchanges and Redemptions (3) *Prereq.: ACCT 7201. Income tax consequences of the sales and exchanges of equity interests, the redemptions of equity interests, and business divisions and liquidations.*

7203 Taxation of Corporations and Shareholders (3) *Prereq.: ACCT 3221 or equivalent. Credit will not be given for both this course and ACCT 4221. Basic tax concepts of corporations, including creation, operation, ownership changes, acquisitions, liquidations, reorganizations, and consolidated tax returns.*

7210 Tax Research, Planning and Business Decision Making (3) *Prereq.: ACCT 3221 or equivalent. Credit will not be given for both this course and ACCT 4225.*

Fundamental tax research methodology based on the Internal Revenue Code, regulations and rulings, judicial interpretations, annotated and topical tax services, computerized tax research methods, and techniques of communicating research results.

7222 Auditing Theory and Standards (3) *Prereq.: ACCT 3222; MS in accounting students or permission of instructor. A comprehensive analysis of the theory and practice of independent auditing.*

7231 Internship in Accounting (3) *Prereq.: permission of instructor and department chair required. Credit will not be given for this course and ACCT 4231 or 4333 or 7333. Pass-fail grading. At least 20 hours per week (3 credits) of learning experience in accounting under the general supervision of a faculty member and direct supervision of a professional in accounting. Grading based on the faculty member's evaluation, a written report by the professional supervisor, and a written report by the student.*

7232 Case Studies in Internal Auditing (3) *Prereq.: ACCT 7233. Primarily for MBA and MS students. Performance, compliance, prudence, and fraud audits.*

7233 Graduate Internal Auditing (3) *Prereq.: consent of instructor. Primarily for MBA and MS students. Theory of internal auditing; efficiency, effectiveness, and economy audits.*

7234 Operational Auditing (3) *Prereq.: ACCT 7233. Primarily for MBA and MS students. Operational audit methodology for management audits, functional audits, risk analysis, and auditable unit analysis.*

7235 Fraud Auditing (3) *Prereq.: ACCT 3001 or equivalent. MS in accounting students or permission of department. Credit will not be given for this course and ACCT 4235. Study of risk and controls relative to the deterrence, prevention, and detection of beneficial and detrimental fraud.*

7244 Systems Auditing (3) *Prereq.: ACCT 3222 or 3233, or permission of instructor. Credit will not be given for this course and ACCT 4244 or ISDS 4244. Selected topics in the control and audit of computer systems.*

7250 Current Topics in Federal Income Taxation (3) *Prereq.: ACCT 3221 or equivalent. May be taken for a max. of 6 hrs. of credit. Tax research and planning in current major interest areas of tax law.*

7255 Fundamentals of Federal Income Tax (3) *Prereq.: ACCT 3221 or equivalent. Relationship among statutes, case law, congressional committee reports, and administrative pronouncements.*

7256 Internal Revenue Service Practice and Procedure (3) *MS in accounting students or permission of department. Practices and procedures of the Internal Revenue Service; client representation.*

7270 Statement and Report Presentation and Analysis (3) *MS in accounting students or permission of department.*

7301 Financial Information Systems (3) *Prereq.: ACCT 3122 or equivalent. MS in accounting students or permission of department. Basic knowledge of computers and databases. Financial information systems, with emphasis on the analysis and design of a system and its use in financial planning, control, and reporting.*

7310 Tax Aspects of Personal Financial Planning (3) *Prereq.: ACCT 3221. Basic concepts of estate and gift taxation and income taxes as they affect personal tax planning; emphasis on wealth accumulation.*

7333 Internship in Internal Auditing (3) *Prereq.: permission of instructor and department chair required. Credit will not be given for this course and ACCT 4231 or 4333 or 7231. Pass-fail grading. At least 20 hrs per week of learning experience in internal auditing under the general supervision of a faculty member and direct supervision of a professional in internal auditing. Grading based on the faculty member's evaluation and a written report by the professional supervisor, and a written report by the student.*

7401 Ethics for Professional Accountants (3) *Prereq.: MS in accounting students or permission of department. Case approach to understanding the ethical and regulatory environment of the practice of professional accounting.*

7421 Public Sector Accounting and Reporting (3) *Prereq.: ACCT 3001. MS in accounting students or permission of department. Credit will not be given for this course and ACCT 4421. Public sector management competencies for executive directors, managers, accountants, and consultants for government and nonprofit organizations; topics include financial reporting, regulation, managerial, auditing, taxation, and information systems issues in governmental and nonprofit entities.*

7601 International Accounting (3) *MS in accounting students or permission of department. Accounting principles, auditing environments, managerial objectives, and financial reporting requirements applicable to multinational corporations; causes of international accounting problems.*

8900 Pre-dissertation Research (1-9) *May be repeated for credit. Pass-fail grading. Permission of instructor and department chair required.*

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

9001 Accounting Research I (3) *For doctoral students only. Research methodologies in accounting and a survey of the accounting research literature.*

9002 Accounting Research II (3) *For doctoral students only. Theory and evidence relating to internal decision making and control, financial accounting, and auditing.*

9003 Accounting Research III (3) *For doctoral students only. Continuation of ACCT 9002. Theory and evidence relating to internal decision making and control, financial accounting, and auditing.*

9004 Accounting Research IV (3) *For doctoral students only. May be taken for a max. of 6 hrs. of credit. Seminar in current accounting research topics.*

AEROSPACE STUDIES • ASST

1001, 1002 The Foundations of the United States Air Force (1,1) F,S *Coreq.: ASST 1011, 1012. Fundamentals of leadership, effective communication, organizational elements, and weapons systems of today's Air Force.*

1011, 1012 Leadership Laboratory I (1,1) F,S *Coreq.: ASST 1001, 1002. 2 hrs. lab. Pass-fail grading. Applied leadership in drill and ceremony, physical fitness, and military protocol.*

2001, 2002 The Evolution of U.S.A.F. Aerospace Power (1,1) F,S *Coreq.: ASST 2011, 2012. Historical changes in the nature of warfare as a result of air power; effective communication skills in the Air Force.*

2011, 2012 Leadership Laboratory II (1,1) F,S *Coreq.: ASST 2001, 2002. 2 hrs. lab. Pass-fail grading. Intermediate leadership training through drill and ceremony, physical fitness, team building, and professional development.*

3001, 3002 Air Force Leadership Studies (3,3) F,S *Prereq.: permission of instructor. Coreq.: ASST 3011, 3012. Skills required by the successful leader; individual motivational and behavioral processes; leadership, communication, and group dynamics; use of analytical aids in planning and organizing; total quality management; ethics, management of change, organizational power, politics, and managerial strategy.*

3011, 3012 Leadership Laboratory III (1,1) F,S *Coreq.: ASST 3001, 3002. 3 hrs. lab. Pass-fail grading. Experiences designed to develop leadership potential; study of Air Force customs and courtesies; drill and ceremonies; career opportunities; and the life and work of an Air Force junior officer.*

4001, 4002 National Security Affairs/Preparation for Active Duty (3,3) F,S *Prereq.: permission of instructor. Coreq.: ASST 4011, 4012. Organization and implementation of national security; evolution of strategy; management of conflict; and civil-military interaction; military profession/officership and the military justice system.*

4011, 4012 Leadership Laboratory IV (1,1) F,S *Coreq.: ASST 4001, 4002. 3 hrs. leadership lab. Pass-fail grading. Advanced development of leadership skills through planning and leading activities; study of Air Force customs and courtesies; drill and ceremonies; career opportunities; and the life and work of an Air Force junior officer.*

Leadership Lab (0) F,S *One hour per week throughout student's involvement in AFROTC. Experiences designed to develop leadership potential; study of Air Force customs and courtesies; drill and ceremonies; career opportunities; and the*

life and work of an Air Force junior officer.

AFRICAN & AFRICAN AMERICAN STUDIES

• AAAS

General education courses are marked with stars (★).

1001 Elementary Swahili Language and Culture I (4) *See SWAH 1001.*

★ 1002 Elementary Swahili Language and Culture II (4) *See SWAH 1002.*

★ 2000 Introduction to African & African American Studies (3) *Dimensions of African & African American thought and practice in contemporary and historical perspective.*

★ 2003 Intermediate Swahili Language and Culture III (4) *See SWAH 2003.*

★ 2004 Intermediate Swahili Language and Culture IV (4) *See SWAH 2004.*

2050 Contemporary Africa (3) *African social and political institutions in transition; challenges of democratization and development in the current international context.*

2410 Black Popular Culture (3) *Explores participation by black peoples in the creation and critique of popular culture through media such as film, music and television and terms of topics such as representation and sexuality.*

2511 Race Relations (3) *See SOCL 2511.*

3024 African Diaspora Intellectual Thought (3) *Survey of critical ideas and theories by select diaspora scholars and writers. Emphasizes the intellectual tensions and deliberations that undergird attempts to theorize and resolve issues involving the status of black people in the world.*

3044 Black Rhetorical Traditions (3) *Survey of the development of black communication styles ranging from the sermonic to the academic. Examining the black world's most effective verbal and written communicators and the tension between orality and literacy.*

3120 Topics in History of Africa and the African Diaspora (3) *May be taken for a max. of 6 sem. hrs. of credit when topics vary. This course surveys historical moments in the life of African and/or African diaspora peoples.*

3122 Topics in Pre-Colonial Africa (3) *May be taken for a max. of 6 sem. hrs. of credit when topics vary. Surveys African empires and civilizations from ancient times to colonial period. Emphasizes culture, religion and/or political influence and practices.*

3341 African American English (3) *Survey of major issues related to historical and contemporary development of African American speech, focusing on linguistic and social features.*

3425 Black Women in America (3) *Surveys intersection of race and gender in the U.S. Through historical and contemporary lenses, course examines commonalities, differences, and struggles that mark black women's subjectivity.*

3901 Directed Readings and Research in African and African-American Studies (1-3) *May be taken for a max. of six sem. hrs. credit when topics vary. Student must register with a faculty member in the AAAS discipline before registration to select the area of reading or research. Topic must not substitute for regularly offered courses.*

3902 Special Topics in African & African American Studies (1-3) *May be taken for a max. of six semester hrs. credit when topics vary.*

4020 Senior Seminar (3) *Prereq.: permission of instructor. Capstone for the minor and concentration; planning and execution of a major research project demonstrating the interdisciplinary processes used by those working in the field of African American studies to develop their arguments and interpretations.*

4124 Studies in African Diaspora Religions (3) *See REL 4124.*

4322 Studies in African Literature (3) *Also offered as ENGL 4322. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Critical analysis of major figures and texts of fiction, drama and poetry.*

4323 Studies in Caribbean Literature (3) *Also offered as ENGL 4323. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Critical analysis of major figures and texts of fiction, drama and poetry.*

AGRICULTURAL ECONOMICS • AGECE

General education courses are marked with stars (★).

1003 Introduction to Agricultural Business (3) F *Nature and scope of agribusiness; application of management and marketing concepts to selected agribusiness problems; exploring agribusiness management as a profession.*

★ 2003 Introduction to Agricultural Economics (3) F,S *Role of agriculture in the general economy; economic principles applied to agricultural production, marketing,*

consumption, and policy problems.

3003 Economic Analysis in Agricultural Business (3) F *Prereq.: grade of "C" or above in AGECE 2003 and ECON 2030 or ECON 2000 and ECON 2010 or equivalent; MATH 1431. 2 hrs lecture; 2 hrs. lab. Applications of graphical, mathematical, and computer-based microeconomic analysis to problems in the production and marketing of food and agricultural products.*

3213 Agribusiness Commodity and Food Products Marketing (3) S *Prereq.: grade of "C" or above in AGECE 2003 and ECON 2030 or ECON 2000 and ECON 2010 or equivalent. An overview of the agricultural commodity and food marketing system; marketing, management, and economic principles are applied to the formulation and implementation of marketing plans for agricultural commodities and branded food products; futures market trading principles.*

3303 Farm Management (3) F-O *Prereq.: AGECE 2003 or equivalent. Fundamental economic and business principles applied to a farm business; comprehensive and integrated treatment of management concepts for successful operation of a farm business.*

3413 Agricultural Business Management Decisions (3) F *Prereq.: grade of "C" or above in AGECE 2003 and ECON 2030 or ECON 2000 and ECON 2010 or equivalent. Identification of typical decisions of agricultural business firms; development of concepts, procedures, and analyses that facilitate planning, organizing, directing, coordinating, and controlling functions within agricultural business firms.*

3503 Natural Resource Economics (3) S *Prereq.: AGECE 2003 or equivalent. Economic rationale for collective, public action in allocation of natural resources in agriculture; emphasis on economic efficiency, property rights, resource use, legal concepts, institutions, and project evaluation.*

3700 Internship (1-3) *Prereq.: AGECE 2003 or equivalent and approval of department head. May be taken for a max. of 3 sem. hrs. of credit. Supervised career-oriented experience with a business or organization in the food and fiber system.*

3803 Agricultural Law (3) F-O *Principles of law and their application to agricultural business firms and institutions; legal processes and relationships relevant to agriculture; Louisiana Civil Code and statutes; federal law, including bankruptcy code; analysis and review of cases, documents, and processes.*

4203 Intermediate Food and Fiber Products Marketing (3) F-E *Prereq.: AGECE 3003 or equivalent. Industrial organization analysis applied to the food and fiber system; emphasis on structural problems and their control by competition, antitrust, and government.*

4213 Economics of Milk Marketing Systems (3) S-O *Prereq.: AGECE 2003 or equivalent. Analysis of the milk production and marketing system; market channels, characteristics, institutions, and government regulations in pricing and marketing milk.*

4273 Agricultural Price Analysis (3) S *Prereq.: grade of "C" or above in AGECE 2003 and ECON 2030 or ECON 2000 and ECON 2010 or equivalent; MATH 1431; and EXST 2201 or ISDS 2001. Economic processes of price discovery and price determination in agricultural input and output markets; emphasis on methods of price analysis and their application to decision processes; analysis of cyclical, trend, and seasonal movements in prices.*

4403 Agricultural Finance (3) F *Prereq.: grade of "C" or above in ACCT 2000 or 2001 or equivalent; grade of "C" or above in AGECE 2003 and ECON 2030 or ECON 2000 and ECON 2010 or equivalent. Capital acquisition and use in the agricultural sector; cost and availability of credit; emphasis on financial management concepts for managing growth, leverage, liquidity, risk, and capital investment in agricultural business.*

4433 Agricultural Business Planning, Management, and Policy (3) S *Prereq.: grade of "C" or above in AGECE 2003 and ECON 2030 or ECON 2000 and ECON 2010 or equivalent; senior standing; AGECE 3003, 3213, 3413; MKT 3401; MGT 3200; and BLAW 3200 or 3201. Integration of management, marketing, and financial concepts for successful planning and implementation of agricultural business decisions; feasibility analysis, marketing policy, personnel policy, marketing mix, pricing decisions, market segmentation, marketing strategy, and financial policy.*

4443 Farm and Rural Land Appraisal (3) F-E *Prereq.: AGECE 2003 or equivalent. Not for graduate AGECE degree credit. Theory, methods, and procedures of real estate appraisal applied to rural property; trends in rural real estate values; factors influencing rural real estate values; approaches used in rural real estate valuation.*

4603 Agricultural Policy (3) F *Prereq.: grade of "C" or above in AGECE 2003 and ECON 2030 or ECON 2000 and ECON 2010 or equivalent. Role of agriculture in the national economy; how agricultural policy decisions affect*

the general public; emphasis on economic impacts of policies on producers and consumers of agricultural products; effects of other nations' policies on American agriculture.

4613 Agricultural Trade (3) S-O Prereq.: *AGEC 3003 or equivalent.* Structure, trade, and practices in exporting and importing regions and nations; policies of major agricultural trading nations and institutions; aid, development relationships, and current development trade policy.

4623 Rural Resource and Community Development (3) S-E Prereq.: *AGEC 3003 or permission of instructor.* Characteristics of developed and undeveloped rural areas; analysis of economic and related problems and potential for development; public policy issues concerning rural development.

4700 Problems in Agricultural Economics (1-3) Prereq.: *approval of department head. May be taken for a max. of 6 sem. hrs. of credit when topics vary.* Independent study under the direction of a faculty member or faculty committee.

7103 Advanced Statistical Methods in Agriculture (3) S Prereq.: *AGEC 7803 or concurrent registration.* Application of advanced statistical tools to problems in agricultural economics; emphasis on the general linear model, including diagnostics, applications, and interpretation.

7113 Agribusiness Research Applications (3) F Introduction to and overview of agribusiness research strategies; design of agribusiness research projects; preparation for data collection; collection of evidence; analysis of evidence; composition of research reports; applications to agribusiness market analysis, agribusiness planning and management, and agribusiness forecasting.

7123 Operations Research Methods in Agricultural Economics (3) F Application of operations research methods to economic problems in agricultural production, marketing, and resource use; linear and nonlinear programming; integer programming; network analysis; dynamic programming; queuing; simulation.

7203 Advanced Agricultural Marketing Theory (3) F-O Prereq.: *ECON 7700 or concurrent enrollment.* Basic and applied analytical procedures in marketing research emphasizing quantitative methods; firm theory applied to marketing.

7303 Agricultural Production Economics (3) S-E Prereq.: *ECON 7700 or concurrent enrollment.* Production principles applied to use of agricultural resources; analysis and interpretation of research data; theory of the farm firm, including costs, uncertainty, and expectations.

7503 Natural Resource Economics (3) F-E Prereq.: *ECON 7700 or concurrent enrollment.* Economic concepts and institutional factors relating to utilization of natural resources; emphasis on conservation, property rights, resource policy, resource valuations.

7603 Advanced Agricultural Policy (3) S-E Prereq.: *ECON 7700 or concurrent enrollment.* Development of agricultural policy; emphasis on objectives, procedures, accomplishments, and consequences of policy on agriculture and rural areas.

7613 International Agricultural Trade (3) S-O Prereq.: *ECON 7700 or concurrent enrollment.* International economic trade theory; special reference to trade in agricultural products.

7623 Rural Development Economics (3) F-O Prereq.: *ECON 7610.* Theoretical concepts in international and domestic rural development; empirical methods used in analysis of economic structure and growth; modeling public policy issues concerning international and domestic rural development.

7700 Internship in Agribusiness Administration (3) F,S,Su Prereq.: *prior approval of student's graduate committee. Open only to agricultural economics master's students. May be taken for a max. of 3 hrs. credit. 300 hrs. of learning experience. General supervision by a faculty member; direct supervision by an agribusiness professional. Pass/fail grading based on a written evaluation by the professional supervisor, a written report by the student, and the faculty member's evaluation.*

7703 Independent Study (1-3) F,S,Su Prereq.: *graduate committee approval prior to enrollment. May be taken for a max. of 6 sem. hrs. when topics vary.* Independent study of relevant subject matter areas in agricultural economics.

7710 Advanced Topics in Agricultural Economics (1-3) F,S,Su Prereq.: *consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary.* New and specialized topics in agricultural economics.

7803 Agricultural Economic Applications (3) S Prereq.: *ECON 7700.* Applications of economic theory to issues in agricultural production, consumption of agricultural goods, and natural resource management.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

AGRICULTURE • AGRI

General education courses are marked with stars (★).

1001 Introduction to Agriculture (1) F Enrollment in this course is limited to freshmen in the College of Agriculture or by permission of department. Opportunities and educational requirements in all fields of agriculture, and careers in agriculture.

★ 1005 Science and Society (3) Principles of biology applied in a sociological context; relationships among scientific inquiry, ethics, social values, and public policies for the beginning science and nonscience student.

2001 Special Topics in Agriculture (1-3) Prereq.: *permission of department. May be repeated for a max. of 6 sem. hrs. credit.* Faculty directed agriculture seminar designed to aid students in becoming aware of the issues facing them as they pursue leadership roles in agriculture fields.

2900 Directed Studies in Agricultural Leadership Development (3) Prereq.: *HRE 2723 and permission of department.* Faculty directed leadership development practicum in an agricultural-related activity or program intended to integrate academic learning with practice.

AGRONOMY • AGRO

General education courses are marked with stars (★).

★ 1001 Introduction to Managed Plant Systems in the Modern World (3) S 2 hrs. lecture; 2 hrs. lab. Survey of plant kingdom; anatomy, growth, and development of plants; ecosystem structure, sustainable agriculture and animal/plant systems; plant nutrition, food additives, and food safety; plant breeding for improved food and fiber; biotechnology and its role in modern agriculture.

2011 Analysis of Environmental Issues (3) See EMS 2011.

2051 Soil Science (4) Prereq.: *CHEM 1002 or 1212 or equivalent. 3 hrs. lecture; 2 hrs. lab. Also offered as EMS 2051.* Principles of soil science; properties of soils related to plant growth and the environment.

2086 Introduction to Turfgrass Management (3) See HORT 2086.

3000 Principles of Crop Production (3) F Prereq.: *BIOL 1402 or equivalent.* Crop production practices relative to major crops grown in Louisiana and the U.S.; seed bed preparation, planting, weed and pest control; harvest and processing practices related to each major crop group.

3010 Research Problems (3) F,S,Su Prereq.: *consent of instructor. May be taken for a max. of 6 sem. hrs. of credit.* Independent research under a faculty member, culminating in an oral and written report.

3011 Fall Crop Production Laboratory (1) F Prereq.: *credit or registration in AGRO 3000.* Field and laboratory research designed to provide an understanding of the growth and practices involved in production of soybeans, cotton, and sugarcane.

3012 Spring Crop Production Laboratory (1) S Prereq.: *AGRO 3000.* Field laboratory research designed to provide an understanding of the growth and practices involved in the production of winter small grains.

3013 Summer Crop Production Laboratory (1) Su Prereq.: *AGRO 3000.* Field and laboratory research designed to provide an understanding of the growth and practices involved in the production of rice, corn, and sorghum.

3040 Soil Conservation (2) F Prereq.: *AGRO 2051. Also offered as EMS 3045.* Causes and effects of soil erosion and sedimentation; their effects on the quality of the environment; methods of reducing erosion and soil environmental pollution.

3090 Agronomic Internship (3) F,S,Su Prereq.: *overall gpa of 2.50 and written consent of instructor. May be taken for a max. of 6 sem. hrs. of credit.* Work experience in crop, soil, or environmental quality related areas culminating in acceptable written reports and a seminar presentation.

4005 Forage Ecology and Management (3) S Forage crop physiology, adaptation, production, utilization, and management; impact on people, animals, and the environment.

4052 Soil Fertility and Soil Management (4) S Prereq.: *AGRO 2051. 3 hrs. lecture; 2 hrs. lab.* Factors affecting plant growth and utilization of essential elements; mechanisms of nutrient uptake; diagnosis of deficiencies; use of lime and fertilizers; potential nutrient losses.

4055 Chemical Properties of Soil (4) F Prereq.: *AGRO 2051. 3 hrs. lecture; 3 hrs. lab. Also offered as EMS 4055.* Chemical and mineralogical properties of soils; their effect on nonpoint source pollution from agriculture; effects of non-hazardous amendments on soil properties.

4056 Microbial Ecology and Nutrient Cycling in Soils (4) S Prereq.: *AGRO 2051 and BIOL 2051. 3 hrs. lecture; 3 hrs. lab. Also offered as BIOL 4256 and EMS 4056.* Microorganisms in terrestrial environments and biogenic processes

influencing C, N, S, and P cycling; role of microorganisms in biological nitrogen fixation, plant nutrient availability, formation of soil humus, and decomposition of organic and inorganic materials; impact of microbial processes on environmental quality.

4058 Soil Morphology and Classification (4) F 2 hrs. lecture; 4 hrs. lab (field and mapping). Genesis, profile morphology, processes related to classification and soil taxonomy; relationships of soil process and classification to environmental quality.

4064 Principles of Plant Breeding (4) F Prereq.: *AGRI 2072 or equivalent. 3 hrs. lecture; 2 hrs. lab. Also offered as HORT 4064.* Methods of plant genetic improvement: hybridization, genetic manipulation, and variety development; selection for insect, disease, and environmental stress resistance; genetic engineering and biotechnology.

4070 Weed Science and the Environment (3) F Prereq.: *BIOL 1001, 1002, CHEM 1001, 1002; or equivalent. 2 hrs. lecture; 2 hrs. lab.* Weed biology and economic importance of weeds in the diverse agriculture of Louisiana; weed management programs, characteristics of important herbicides, mechanisms of herbicidal action, fate of herbicides in the environment, and pesticide application, labeling, and safety.

4071 Weed Biology and Ecology (3) F-O Prereq.: *BIOL 1001, 1002, or equivalent. 2 hrs. lecture; 2 hrs. lab.* Study of general plant ecological principles, reproduction, dormancy, interference, allelopathy, competition, herbicide resistance, and the impact of weed control mechanisms on weed and crop communities.

4077 Environmental Soil Physics (3) Prereq.: *AGRO 2051. Also offered as EMS 4077.* The physical soil system; the soil components and their physical interactions; processes involving water flow in saturated and unsaturated soils, air, and heat; fate and transport of applied chemicals in the soil profile and processes governing the mobility of contaminants.

4078 Land Use Planning and Land Management (3) S Prereq.: *AGRO 3040 or consent of instructor. 2 hrs. lecture; 2 hrs. lab.* Land use planning and management based on chemical, mineralogical, and physical properties of soils; includes applications of soils, plants, hydrology, and remote sensing datasets for advanced GIS analysis; areas of use and management include crops, pasture, forest and woodland, metropolitan, transportation, waste disposal, wetlands, and disturbed lands.

4080 Advanced Crop Production and Management (3) S-O Prereq.: *AGRO 1021 and BIOL 3060 or equivalent.* Effect of cultural practices on physiological/ecological interactions affecting crop growth, development, and yield.

4090 Agronomic Problem Solving (3) S-E Prereq.: *AGRO 2051 or equivalent; BIOL 3060 or AGRO 4080; AGRO 3000 or equivalent.* Analysis and solution of specific agronomic problems; emphasis on researching literature, group discussion, and development of answers to hypothetical management questions.

4091 Special Topics in Crop Science (1-3) Prereq.: *written consent of instructor. May be repeated for credit; a total of 6 sem. hrs. may be earned in AGRO 4091 and 4092 combined.*

4092 Special Topics in Soil Science (1-3) Prereq.: *written consent of instructor. May be repeated for credit; a total of 6 sem. hrs. may be earned in AGRO 4091 and 4092 combined.*

6011 Topics in Plant, Environmental and Soil Sciences for Teachers (3) See EMS 6011.

7001 Agronomy Seminar (1) May be repeated for credit. 1 hr. seminar; reports.

7040 Research Methods in Plant Science (3) S-E Prereq.: *EXST 7005; or equivalent; field research experience.* Research activities and methodology used to conduct field research in plant science and pest management disciplines from initial planning through publication of results; areas of emphasis include: research proposal preparation and protocol development; selection of experimental design and implementation of research; data analysis, interpretation, and presentation; and manuscript preparation.

7041 Plant-Herbicide Physiology (3) F-E Prereq.: *AGRO 4070 or equivalent. 2 hrs. lec.; 3 hrs. lab. Lab project includes several techniques used in plant-herbicide physiology research.* Physiological and physical interactions of herbicides with plants; emphasis on the specific mode of action, entry, movement, metabolism, and selectivity mechanisms of each chemical family of herbicides.

7042 Soil-Pesticide Interactions (3) F-E Prereq.: *AGRO 2051 and AGRO 4070 or equivalent.* Chemical, physical, and biological properties of soils as they affect performance and dissipation of pesticides; fate of pesticides in the environment.

7051 Advanced Soil Fertility and Plant Nutrition (4) S-E Prereq.: *AGRO 4052 and BIOL 3060 or equivalent. 3*

hrs. lecture; 2 hrs. lab. Principles of bioavailability and acquisition of mineral nutrients by crop plants; interactions of plant roots with the soil environment; fertilizer use efficiency.

7052 Micronutrients in Soils and Crops (4) S-O 3 hrs. lecture; 2 hrs. lab. Theory and current literature on the micronutrients (boron, copper, zinc, manganese, iron, molybdenum, chlorine, cobalt) and their influence on growth of crop plants.

7055 Advanced Soil Chemistry (3) F-O Prereq.: AGRO 4055, MATH 1552, and one semester of physical chemistry. Theory of physico-chemical properties of soils; emphasis on soil solution chemistry and soil environmental properties.

7056 Current Topics in Soil Microbiology (3) F-O Prereq.: AGRO 4056 or equivalent. 2 hrs. lecture; 2 hrs. lab. Role of soil microbial processes in maintaining environmental quality; fate and behavior of introduced microorganisms; methods of investigation; development of a laboratory consistent with students' interests.

7057 Advanced Soil Physics (4) F 3 hrs. lecture; 2 hrs. lab. Also offered as EMS 7057. Physical properties of the soil matrix, soil-water retention, and processes governing water, gas, solute, and heat fluxes in the soil profile.

7058 Advanced Pedology (3) S-O Theory and current literature on pedogenic processes responsible for the physical, chemical, and mineralogical, properties found in soil environments.

7066 Agronomic Crop Breeding Techniques (1) F,Su 2 hrs. lab. May be repeated in the alternate semester for a max. of 2 hrs. of credit. Practical experience in hybridization of agronomic and horticultural crops; objectives, methodologies, and rationale of specific breeding programs; selection procedures; computerized record keeping and data management.

7068 Soil Mineralogy (3) F-O Prereq.: GEOL 2082 or AGRO 4055 or equivalent. 2 hrs. lecture; 3 hrs. lab. Variety, distribution, and alteration of major minerals in soils; their physico-chemical properties and reactions; their significance to agriculture and the environment.

7070 Advanced Plant Breeding (4) S-E Prereq.: AGRO 4064 and EXST 7014; or equivalent. 3 hrs. lecture; 2 hrs. lab. Also offered as HORT 7070. Advanced methods of plant breeding; emphasis on breeding for insect, pathogen, and abiotic stress resistance; breeding strategies and theory; resource allocation and evaluation of breeding methodologies.

7071 Advanced Plant Genetics (4) S-O See HORT 7071.

7074 Quantitative Genetics in Plant Improvement (3) F-E Prereq.: HORT 7063 or AGRO 7065 and EXST 7022. Also offered as HORT 7074. Genotypic and environmental values, their effects and interactions, homeostasis, stability; variances, covariances, combining ability, genetic advance, selection indices, molecular markers for quantitative trait loci.

7165 Biogeochemistry of Wetland Soils and Sediments S (3) Same as OCS 7165.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8901 Research in Crop Science (3-6) Prereq.: consent of department.

8902 Research in Soil Science (3-6) Prereq.: consent of department.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

ANIMAL SCIENCE • ANSC

1011 Introduction to Animal Science (3) F,S Science and production of beef cattle, sheep, swine, and horses; their role in American agriculture.

2001 Farm Unit Internship (1) F,S,Su Prereq.: ANSC 1011 and consent of department head. 3 hrs. work experience. May be taken for a max. of 5 sem. hrs. of credit, one each in beef, horse, sheep, swine, and meat units. Pass-fail grading. Supervised work experience with animal behavior, vocational management skills, and livestock handling.

2060 Companion Animal Management (3) Care, feeding, breeding, behavior, and management of companion animals; emphasis on dogs and cats; opportunities in the pet-related fields and industries.

2133 Growth and Development of Livestock (3) S 2 hrs. lecture; 2 hrs. lab. Cell, tissue, and body growth, development, and composition; patterns of tissue deposition in livestock; control and modification of normal and abnormal growth; evaluation and measurement of composition of beef, sheep, swine, and horses.

3033 Elements of Live Animal and Carcass Evaluation (3) F 1 hr. lecture; 4 hrs. lab. Basic principles and techniques involved in evaluation of meat animals and their carcasses.

3034 Advanced Live Animal and Carcass Evaluation (3) S Prereq.: ANSC 3033. 1 hr. lecture; 4 hrs. lab.

3051 Animal Science Problems (1-6) F,S,Su Prereq.: consent of department head. May be taken for a max. of 6 sem. hrs. of credit. Directed individual study of a problem in

biotechnology, nutrition, meats, reproduction, breeding and genetics, herd health, or marketing of farm animals.

3053 Meats (3) F 2 hrs. lecture; 2 hrs. lab. Livestock and meat industry relationship; live animal and carcass comparison, slaughtering, processing, identification, and utilization of meat and meat products.

3060 Companion Animal Health Maintenance and Disease (3) F Prereq.: ANSC 2060, BIOL 1201 and 1202, VETS 2000. Canine and feline health maintenance programs, diagnostic tests and tools used in animal health professions, etiology, clinical findings, diagnosis, prevention and treatment of common companion animal diseases and disorders, zoonotic disease transmission, and prevention.

3070 Small Animal Anatomy and Physiology (3) S Prereq.: ANSC 2060, BIOL 1201 and 1202. Anatomy and physiology of small companion animals and exotic species.

4001 Parasite Effects on Animal Performance (2) F Prereq.: ANSC 4009 or equivalent. 1 hr. lecture; 2 hrs. lab. Endo- and ecto-parasites that affect performance of domestic animals and birds.

4009 Animal Nutrition (3) F Prereq.: CHEM 2060 or equivalent. Basic principles of nutrition including chemical composition of feedstuffs, digestion, metabolism, and functions and values of nutrients.

4018 Principles of Animal Genetics (4) F Prereq.: DARY 2072 or BIOL 2153 and EXST 2201; or equivalent. 3 hrs. lecture; 2 hrs. lab. Concepts of animal breeding and genetics as they relate to farm livestock.

4040 Quality Assurance in the Food Industry (4) S See DARY 4040.

4045 Reproductive Physiology of Farm Animals (3) F See DARY 4045.

4050 Animal Biotechnology (3) F Prereq.: at least 8 hrs. of biological sciences. Recent developments in animal biotechnology; development of methods to increase the efficiency of growth, reproduction, and lactation; improvement of resistance to disease and stress.

4060 Contemporary Issues in the Animal Sciences (3) Prereq.: ANSC 1011 or equivalent. Discussion and evaluation of contemporary issues and policies related to animal biology and agriculture; development of reasoning and interpersonal skills; preparation of subject matter for distribution to the public.

4081 Swine Production (3) S-E Prereq.: credit or registration in ANSC 4009 or DARY 3010 or equivalent. 2 hrs. lecture; 2 hrs. lab. Graduate students in animal, dairy, and poultry sciences or animal and dairy sciences may not take more than one of the following for graduate credit: ANSC 4081, 4084, 4086, or 4088. Management practices of swine; reproduction, nutrition, diseases and other aspects of production.

4084 Beef Cattle Production (3) S Prereq.: DARY 3010 or equivalent. 2 hrs. lecture; 2 hrs. lab. Graduate students in animal, dairy, and poultry sciences or animal and dairy sciences may not take more than one of the following for graduate credit: ANSC 4081, 4084, 4086, or 4088. Management practices of beef cattle; reproduction, breeding, feeding, marketing, herd health, and other aspects of production in the south.

4086 Small Ruminant Production (3) S-O Prereq.: DARY 3010 or equivalent. 2 hrs. lecture; 2 hrs. lab. Graduate students in animal, dairy, and poultry sciences or animal and dairy sciences may not take more than one of the following for graduate credit: ANSC 4081, 4084, 4086, or 4088. Theory and practice of management, breeding, and feeding of sheep and goats for production under southern conditions.

4088 Horse Production (3) S Prereq.: ANSC 1011; 2 hrs. lecture; 2 hrs. lab. Graduate students in animal, dairy, and poultry sciences or animal and dairy sciences may not take more than one of the following for graduate credit: ANSC 4081, 4084, 4086, or 4088. Theory and practice of raising horses; conformation and selection; nutrition, reproduction, breeding, and production in the south.

4092 Animal Science Proseminar (1) F,S Nutrition, animal breeding and production, and meat processing and preservation.

4094 Meat Technology (3) S-E Prereq.: ANSC 3053; and BIOL 2083 or equivalent. 2 hrs. lecture; 2 hrs. lab.

4095 Reproductive Physiology and Management of Zoo, Laboratory, and Companion Animals (4) S-E Prereq.: basic course in biology or zoology; and ANSC 4045 or equivalent. 3 hrs. lecture; 2 hrs. lab. Field trips are required. Reproductive biology of zoo, laboratory, and companion animals, with emphasis on breeding management.

7001 Experimental Methods (2) F Prereq.: credit or registration in EXST 7004 or equivalent. Scientific methods applied to animal science.

7006 Advanced Animal Genetics (3) F-O Prereq.: DARY 7004 or equivalent. Application of genetic principles and theory to farm livestock populations.

7050 Advanced Animal Physiology and Laboratory Techniques (4) F-E Prereq.: consent of instructor. 3 hrs. lecture; 2 hrs. lab. Physiological processes relating to

domestic animal homeostasis and their interaction with production; current laboratory techniques.

7051 Advanced Physiology of Reproduction (3) S-O Prereq.: ANSC 4045 or DARY 4045. Processes of reproduction in farm animals.

7052 Biotechnology of Gamete and Embryo Physiology and Micromanipulation (4) S (even-numbered years) Prereq.: ANSC 4045 or equivalent. 3 hrs. lecture; 2 hrs. lab. Procedures for manipulation of mammalian gametes *in vitro* and general biotechnology techniques; emphasis on application to biological research.

7061 Research in Animal Science (1-6) F,S,Su Prereq.: consent of department head. May be repeated for credit; max. credit of 6 hrs. for MS degree and 9 hrs. for PhD degree. Research in animal nutrition, breeding, and production; physiology of reproduction; meat technology.

7091 Seminar (1) F,S May be taken for a max. of 4 hrs. of credit.

7900 Special Topics in Animal Science (1-6) F,S,Su Prereq.: consent of department head. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Special topics of interest in animal science.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

ANTHROPOLOGY • ANTH

General education courses are marked with stars (★).

★ **1001 Introduction to Physical Anthropology and Prehistory (3)** Origin and evolution of people; evolution and its physiological bases; human prehistory; human diversity; origin and development of human culture through the rise of civilization.

★ **1003 Introduction to Cultural and Social Anthropology (3)** Diversity of human cultures; nature of culture, social organization, subsistence patterns, economics, law, politics, religion, language, and other institutions of culture viewed in cross-cultural perspective.

★ **2015 Introduction to Archaeology (3)** Archaeological goals, methods, techniques, and interpretations; particular prehistoric cultural sequences or projects; relationship of archaeology with other social, life, and earth sciences.

2016 Field Methods in Archaeology (3-6) Prereq.: ANTH 2015 or equivalent. May be taken for a max. of 6 sem. hrs. of credit. Techniques of survey, mapping, excavation, and recording; participation in one or more archaeological excavations.

★ **2050 World Archaeology (3)** Survey of human culture history from the stone age to the present; spread of humanity around the globe; major cultural developments including hunting and gathering, origins of agriculture, discovery and spread of metalworking, rise of ancient civilizations, and development of the modern world.

★ **2051 Introduction to World Ethnography (3)** Sex roles, economic pursuits, values, beliefs, families, and other institutions of selected nonwestern peoples; implications for American culture.

★ **2423 Introduction to Folklore (3) See ENGL 2423.**

3004 Archaeology and the Bible (3) See REL 3004.

3015 The Archaeology of Ancient Greece (3) See CLST 3015.

3060 Introduction to Anthropological Linguistics (3) Cultural variation in language and its uses; problems of language classification and areal linguistics; practice in phonemic and morphemic analysis of nonwestern languages.

3401 The Study of Folklore (3) Also offered as ENGL 3401. History of the study of folklore; methods of collection, interpretation, and analysis of folklore materials; myth, folktales, legend, folk song, ballads, folk humor, festival, and folk speech; psychological, contextual, and structural analysis of oral literature; specific reference to the heritage of Louisiana and the South.

3909 Undergraduate Seminar in Anthropology (3) May be taken for a max. of 9 hrs. of credit when topics vary.

4002 South Asian Society, Polity, and Culture (3) See INTL 4002.

4003 Indian Civilization of Middle and South America (3) Ancient Maya, Aztec, and Inca civilizations; modern Indian groups in Latin America.

4004 The North American Indians (3) Origin, distribution, language, and culture of the aboriginal population.

4008 Ancient Civilizations of Middle America (3) Ancient settlement, development of agriculture, rise and fall of ancient civilizations in Middle America including Olmec, Maya, and Aztecs.

4010 Human Osteology (3) Prereq.: Permission of instructor. Evolutionary biology and functional anatomy of the human skeleton.

4012 Archaeology of Death (3) Archaeological approaches to the study of historic cemeteries and ancient

burials.

4014 Forensic Anthropology (3) Fundamental concepts and application of techniques in forensic anthropology.

4015 North American Archaeology (3)

4016 Old World Archaeology (3) Cultural developments in prehistory ranging from the earliest evidence of humans to the foundations of civilization.

4017 Louisiana Archaeology (3) Prereq.: ANTH 4015 or equivalent. Two overnight field trips. Archaeological data relative to the Indian cultures dating from the end of the Pleistocene period to the early historic era.

4018 Historical Archaeology (3) Also offered as HIST 4151. Broad range of archaeological goals, methods, and interpretations unique to the study of the historic past; colonial and plantation archaeology in the southeastern U.S.

4019 Geoarchaeology (4) See GEOL 4019.

4020 Method and Theory in Archaeology (3) Prereq.: ANTH 1001 or 1003, and ANTH 2015; or equivalent. Empirical method and theory in archaeological research emphasizing the logic of scientific argument; history of American archaeology, survey of modern archaeological interpretations, types of explanation, logic of archaeological classification, and formation of research designs.

4021 Advanced Field Methods in Archaeology (3-6) Prereq.: ANTH 2015 and 2016 or equivalent and at least one upper-division or graduate course in archaeology. May be taken for a max. of 6 sem. hrs. credit when topics vary. Advanced techniques of surveying, mapping, excavation, soil sampling, and recording.

4022 Ancient Civilizations of South America (3) Survey of South American prehistory and the development of human civilizations. Archaeological perspective used to explore the various ways of life and cultural achievements in the various regions of the continent from the Amazon lowlands to the Andean highlands and the Pacific desert coast.

4023 Latin American Cultures (3) Spanish-American cultures in Latin America; their relationship to current societal changes.

4031 Comparative Religions (3) Also offered as REL 4031. Religious systems in different levels of sociocultural evolution.

4032 Religion, Gender, and Society (3) See REL 4032.

4040 Physical Anthropology (3) Prereq.: ANTH 1001, or BIOL 1002 or BIOL 1202. Evolutionary theory, human variation, fossil record of human evolution, and primate behavior.

4050 Black Music in America (3) Cultural and historical survey of musical genres created and developed by black Americans.

4051 Africa (3) Races and cultures of Negroid Africa.

4053 African-American Cultures (3) Cultures of African-Americans in the western hemisphere; their origins, development, and present distinctiveness.

4060 Language and Culture (3) Prereq.: ANTH 3060 or COMD 2050 or equivalent. Also offered as LING 4060. Relationships between various aspects of language and culture.

4064 Pidgin and Creole Languages (3) Prereq.: ANTH 4060 or equivalent. Also offered as FREN 4064 and LING 4064. Linguistic, sociolinguistic, and anthropological study of new languages that emerge in contact situations, particularly among peoples of different races and cultures; languages of the slave trade and European commercial expansion from the 15th through 18th centuries.

4070 Medicine, Bodies, and Power (3) Examines bodily practice, social theory, and cultural analysis of the body in health, illness, and healing. Cross-cultural perspectives and ethnography are considered in relation to forms of social power.

4074 Place and Culture (3) Also offered as GEOG 4074. Consideration of place and culture as two core concepts in geography and anthropology.

4081 Human Evolution (3) The biological and cultural evolution of the human species.

4082 Social and Cultural Anthropology (3) For graduate students with little or no anthropology background. Culture, society, and language in primitive and complex settings.

4083 Quaternary Paleocology (3) See GEOG 4083.

4085 History of Anthropological Theory (3) Major theories in all branches of anthropology; emphasis on cultural and social anthropology.

4086 Human-Environment Interactions (3) See GEOG 4086.

4087 Gender, Place, and Culture (3) Also offered as GEOG 4087 and WGS 4087.

4090 Ethnographic Methodology (3) Theories and techniques of ethnography; emphasis on utilization of informants.

4440 Vernacular Architecture and Material Culture (3) Also offered as ARCH 4440. Subject matter and instructor may vary; additional details available from department. World vernacular architecture, including indigenous and folk buildings; other forms of material culture.

4470 Folklore of the African Diaspora (3) African,

Caribbean, and African-American cultures from the viewpoint of the diaspora.

4475 American Folklore (3) See ENGL 4475.

4909 Undergraduate Seminar in Anthropology (3) Prereq.: written consent of instructor. May be taken for a max. of 9 sem. hrs. when topics vary.

4997 Special Topics in Anthropology (3) Permission of instructor. May be taken for a max. of 6 sem. hrs. when topics vary.

4998 Independent Reading and Research in Anthropology (1-6) Prereq.: written consent of instructor. May be taken for a max. of 6 sem. hrs. An honors course, ANTH 4999, is also available. Supervised reading or research selected by qualified advanced students.

4999 HONORS: Independent Reading and Research in Anthropology (1-6) Same as ANTH 4998, with special honors emphasis for qualified students.

7032 Comparative Studies in World Costume (3) See HUEC 7032.

7060 Conversation and Discourse (3) Prereq.: completion of one course in linguistics. Also offered as LING 7060. Analysis of language in use; conversation, narrative, culturally specific genres; emphasis on discourse structures in naturally occurring context.

7074 Poetics of Place (3) Prereq.: ANTH/GEOG 4074 or permission of instructor. Also offered as GEOG 7074. Combination of the observational method of social science with the literary insights of poetry and fiction; understanding of how places where humans live out their lives convey a variety of meanings beyond that of the strictly utilitarian.

7081 Conceptual Issues in Human Evolution (3) Prereq.: Permission of instructor. May be repeated for a max. of 6 sem. hrs. credit when topics vary. Consideration of the various conceptual issues on human evolution.

7105 Seminar in Historical Archaeology (3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary.

7108 Mesoamerican Archaeology Seminar (3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary.

7200 Human Fertility (3) Biological, behavioral, and demographic aspects of human reproduction.

7760 Readings in Creolization (3) A seminar on linguistic, literary, historical, and anthropological creolization and creolized cultures.

7766 Readings in the Caribbean and Louisiana (3) Seminar on the theoretical interpretation of Caribbean and Louisiana cultures.

7901 Introduction to Graduate Study (1) Same as GEOG 7901. Techniques and methods of the profession for incoming graduate students.

7906 Nature of Culture (3)

7909 Selected Topics in Anthropology (3) Permission of instructor. May be taken for a max. of 9 hrs. of credit when topics vary. Also offered as LING 7909.

7954 Anthropology of Complex Societies (3) Anthropological assumptions of theory and technique; problems generated by applying these assumptions to contemporary Africa, India, Latin America, and Anglo-America.

7962 Field Methods in Linguistics (3) Prereq.: at least one upper-division or graduate linguistics course. 2 hrs. lecture; 1 hr. individual consultation. Also offered as LING 7962. Recording and analyzing a living nonEuropean language and using a native-speaking informant.

7999 Research in Anthropology (1-6) Prereq.: written consent of instructor. May be repeated for credit. Total credit earned in ANTH 4998 and 7999 cannot exceed 9 sem. hrs. Also offered as LING 7999. Individual supervision of advanced research and field work in anthropology.

8000 Thesis Research (1-12 per sem.) Permission of instructor. "S/U" grading.

ARABIC • ARAB

Native speakers of Arabic will not receive credit for courses marked with an asterisk (*).

General education courses are marked with stars (★).

***1101 Beginning Arabic (4)** Supplementary work in language laboratory. Introduction to alphabet, vocabulary, and grammar; elementary language study with oral, written, and reading practice.

★ ***1102 Beginning Arabic (4)** Prereq.: ARAB 1101 or equivalent. Supplementary work in language laboratory. Continuation of ARAB 1101. Elementary language study with oral, written, and reading practice.

2001 Arabic Culture (3) Taught in English; knowledge of Arabic not required. Introduction to Arabic history and the varieties in Arabic Culture.

★ ***2101 Intermediate Arabic (4)** Prereq.: ARAB 1102. Continuation of the study of Arabic. Supplementary work in language laboratory. Development of writing, reading, and

speaking skills.

★***2102 Intermediate Arabic (4)** Prereq.: ARAB 2101. Continuation of the study of Arabic. Supplementary work in language laboratory. Development of writing, reading, and speaking skills.

3101 Advanced Arabic I (3) Prereq.: ARAB 2102 or equivalent. Introduces authentic classical and modern Arabic texts; continuing development of reading, writing, speaking, and listening.

3102 Advanced Arabic II (3) Prereq.: ARAB 3101 or equivalent. Introduces authentic classical and modern Arabic texts, especially poetry; continuing development of reading, writing, speaking, and listening.

ARCHITECTURE • ARCH

General education courses are marked with stars (★).

1001 Architectural Design I (6) Prereq.: permission of department. 12 hrs. studio. Emphasis on two-dimensional representation of three-dimensional forms; development of basic skills in architectural design drawing and modeling.

1002 Architectural Design II (6) Prereq.: ARCH 1001. 12 hrs. studio. An Honors course, ARCH 1102 is also available. Emphasis on the organization of spaces, form and process, and development of skills in architectural design drawing and modeling.

1102 HONORS: Architectural Design II (6) Prereq.: ARCH 1001. 12 hrs. studio. Same as ARCH 1002, with special emphasis for qualified Honor students.

2001 Architectural Design III (6) Prereq.: ARCH 1002 or ARCH 1102; coreq.: ARCH 2003. 12 hrs. studio. An Honors course, ARCH 2101 is also available. Emphasis on abstract and theoretical organizational concepts; space, form, function, and resolution of materials and structural systems.

2002 Architectural Design IV (6) Prereq.: ARCH 2001 or ARCH 2101; coreq.: ARCH 2006. 12 hrs. studio. An Honors course, ARCH 2102 is also available. Required field trip. Students are responsible for paying travel expenses associated with the course. Emphasis on process, materials theory, site inventory, and analysis and impact of regionalism.

2003 Architectural Techniques (3) Prereq.: ARCH 1002; coreq.: ARCH 2001. Exploration of drawing, modeling, and digital applications to the design process; specific techniques will vary based on projects assigned in ARCH 2001.

2006 Architectural Topics (3) Prereq.: ARCH 2003; coreq.: ARCH 2002. Use of case studies to contrast the meanings of buildings designed in urban or rural environments.

2101 HONORS: Architectural Design III (6) Prereq.: ARCH 1002 or 1102; coreq.: ARCH 2003; 12 hrs. studio. Same as ARCH 2001, with special emphasis for qualified Honor students.

2102 HONORS: Architectural Design IV (6) Prereq.: ARCH 2001 or 2101; coreq.: ARCH 2006. 12 hrs. studio. Same as ARCH 2002, with special emphasis for qualified Honor students.

2145 Louisiana and Gulf Coast Building Culture (3) History and development of Louisiana and gulf coastal architecture from the 17th century to the present.

★ **2401 Appreciation of Architecture (3)** Not open to architecture majors. Architectural concepts and principles; architectural vocabulary, style, symbolic form characteristics, spatial character, and refinements.

2402 Introduction to Structural Forms (3) S Prereq.: enrollment in professional program in architecture or interior design. Nonmathematical survey of structural elements and systems; their integration in the environmental design study of forces and force systems; state of stress; deformation; properties of shapes.

3000 Supervised Independent Study and Research (1-3) Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. of credit with consent of school director. Investigation of areas of interest not covered in other departmental courses.

3001 Architectural Design V (6) Prereq.: approval for advancement to upper division in architecture. 12 hrs. studio. An Honors course, ARCH 3101 is also available. Required field trip. Students are responsible for paying travel expenses associated with the course. Emphasis on programming, site analysis and planning, functional planning, and resolution of structural and architectural systems.

3002 Architectural Design VI (6) Prereq.: ARCH 3001 or ARCH 3101, 3007. 12 hrs. studio. An Honors course, ARCH 3102 is also available. Emphasis on planning buildings while incorporating studies in the technologies of materials, structure, environmental controls, lighting, and acoustics.

3003 Architectural Structures I (3) Prereq.: approval for advancement to upper division in architecture. Building structural mechanics, statics, strength of materials, and theories of structures.

3004 Architectural Structures II (3) Prereq.: ARCH 3003. Design and application of timber and steel structures in architecture.

★ **3005 History of Architecture I (3)** The development of architectural and spatial forms as they relate to changing perceptions of self, society, and the natural world. From prehistory to the 13th century.

★ **3006 History of Architecture II (3)** Prereq.: ARCH 3005. The development of architectural and spatial forms as they relate to changing perceptions of self, society, and the natural world from the Italian Renaissance through modern times.

3007 Architectural Systems (3) Prereq.: approval for advancement to upper division in architecture. Detailed treatment of construction materials and systems, with emphasis on large scale application of enclosure systems and steel and concrete structures.

3008 Environmental Control Systems (3) Prereq.: approval for advancement to upper division in architecture. Principles and practices of selection and design of mechanical systems, including lighting, electrical distributions, acoustics, plumbing, vertical transportation, and fire suppression.

3101 HONORS: Architectural Design V (6) Prereq.: approval for advancement to upper division in architecture. 12 hrs. studio. Required field trip. Students are responsible for paying travel expenses associated with the course. Same as ARCH 3001, with special emphasis for qualified Honors students.

3102 HONORS: Architectural Design VI (6) Prereq.: ARCH 3001 or 3101, 3007. 12 hrs. studio. Same as ARCH 3002, with special emphasis for qualified Honors students.

3457 Hands on Materials (3) V Prereq.: ARCH 2154. 6 hrs. studio. Design and physical manipulation, construction, and/or fabrication of devices or components made primarily (but not necessarily exclusively) of steel.

4001 Architectural Design VII (6) Prereq.: ARCH 3002 or ARCH 3102. 12 hrs. studio. Service-learning course. An Honors course, ARCH 4101 is also available. Emphasis on the advancement of sustainable communities through analysis, building design, and the study of socially responsible approaches to development and building practice.

4002 Architectural Design VIII (6) Prereq.: ARCH 4001 or ARCH 4101. 12 hrs. studio. An Honors course, ARCH 4102 is also available. Required field trip. Students are responsible for paying travel expenses associated with the course. Emphasis on the design of single or multiple buildings in urban environments.

4003 Intensive Design Studio (6) Su Prereq.: admission to the MArch program. 12 hrs. studio. Introduction to design, analysis, and the development of basic architectural skills.

4007 History of Architecture III (3) Prereq.: ARCH 3006. Majors only, or by permission of department. Development of architectural and spatial forms as they relate to changing perceptions of self, society, and the natural world in the 20th century.

4031 Architectural Structures III (3) Prereq.: ARCH 3003. Design and application of concrete structures in architecture.

4032 Advanced Architectural Technology (3) Prereq.: ARCH 3008. Seminar relating to topics of architectural technologies including, but not limited to building structures, environmental concerns, electronic transfer of information.

4033 Fundamentals of Architectural Technology (2) Su Prereq.: admission to the MArch program or consent of instructor. A survey of the fundamental theories and techniques of mathematical and physical science related to the application of architectural technology.

4041 Issues in Sustainability (3) Examination of issues in sustainability as they relate to the practice of architecture.

4051 Advanced 20th Century Architectural History (3) Prereq.: ARCH 3005, 3006. Topics in 20th century architectural history and theory; writing component.

4052 Advanced Architectural History (3) Prereq.: ARCH 3005, 3006. Topics on architectural history and theory.

4062 Urban Design and Planning (3) Fundamentals of urban morphology in relation to historical, social, political, and economic systems.

4072 Community Design Studies (3) Study of community design and community-based practice with emphasis on contemporary participatory action research and techniques.

4090 Restoration Studies (3) Theory and methodology of architectural restoration; tools and techniques of restoration.

4101 HONORS: Architectural Design VII (6) Prereq.: ARCH 3002 or 3102. 12 hrs. studio. Same as ARCH 4001, with special emphasis for qualified Honor students.

4102 HONORS: Architectural Design VIII (6) Prereq.: ARCH 4001 or 4101. 12 hrs. studio. Required field trip. Students are responsible for paying travel expenses associated with the course. Same as ARCH 4002, with special emphasis for qualified Honors students.

4155 Recording Historic Structures (3) Prereq.: permission of department. 1 hr. lecture; 2 hrs. lab. Hands-on field and laboratory experience in current methods of documenting historic buildings, including hand methods, photography, and photogrammetry.

4165 Applied Principles of Conservation (3) Prereq.: permission of department. 1 hr. lecture; 4 hrs. lab. Laboratory work will be at the LSU Rural Life Museum.

Hands on work with traditional construction materials, tools, and methods: masonry, timber, bousillage, and others.

4221 Selected Topics in Architecture (3) V May be taken for a max. of 12 hrs. of credit with school approval. Studies in various subjects related to architecture.

4353 Principles and Practices of Land Development (3) Environmental, physical, and financial aspects of land development.

4440 Vernacular Architecture and Material Culture (3) See ANTH 4440.

4441 Aesthetics of Architecture (3) Prereq.: consent of instructor. Development of aesthetic theory through architectural literature.

4474 Passive Solar Energy Applications for Buildings (3) Design and application of passive solar systems for space heating and cooling of buildings.

4700 Research Methods (3) Major research methods in architecture; hypothesis formulation and testing, data gathering and analysis.

4991 Advanced Computer Applications in Design (3) F,S Prereq.: permission of department. 1 hr. lecture; 2 hrs. lab. Development and application of computer-based image processing and information management skills.

4993 Advanced Computer Aided Architectural Graphics (3) F,S Prereq.: consent of instructor. The development and application of advanced computer-based architectural design and communication skills.

5001 Comprehensive Architectural Design (6) Prereq.: ARCH 4002 or ARCH 4102. 12 hrs. studio. An Honors course, ARCH 5101 is also available. Emphasis on the comprehensive design of a single building integrating material selection, mechanical, acoustical, structural, lighting, and two- and three-dimensional studies.

5002 Architectural Design Concentration (6) Prereq.: ARCH 4002. 12 hrs. studio. Emphasis on architectural problems developed around faculty expertise and emerging opportunities in the profession.

5003 Advanced Architectural Topics (3) Seminar relating to various topics in architecture; writing component.

5004 Concentration Seminar (3) Various topics relating to architectural problems encountered in ARCH 5002.

5005 Advanced Architectural Techniques (3) I hr. lecture; 4 hrs. studio. Preparation and correlation of working drawings, specifications, and project manuals, from design development drawing.

5006 Professional Practice (3) Exploration and analysis of project acquisition, contract negotiations, governmental regulations, personnel, office management, and the architect's societal role.

5008 Community Design Practicum (6) Prereq.: ARCH 3002 or 3102, LA 3002, or permission of department. Minimum 280 hours of supervised experience. Supervised learning experience in the Office of Community Design and Development or approved off-campus site with emphasis on pre-professional services for community-based projects

5101 HONORS: Comprehensive Architectural Design (6) Prereq.: ARCH 4002 or 4102. 12 hrs. studio. Same as ARCH 5001, with special emphasis for qualified Honors students.

7001 Graduate Design Studio I (6) F Prereq.: ARCH 4003 or equivalent. 12 hrs. studio. The use of space and form in relation to concept in the exploration of basic architectural elements.

7002 Graduate Design Studio II (6) S Prereq.: ARCH 7001. 12 hrs. studio. Emphasis on the design of buildings in a variety of physical settings.

7003 Graduate Design Studio III (6) F Prereq.: ARCH 7002. 12 hrs. studio. Emphasis on architectural programming and the design of buildings incorporating technologies of materials and various architectural systems.

7004 Graduate Design Studio IV (6) F Prereq.: ARCH 7003. 12 hrs. studio. Emphasis on the design of buildings incorporating technologies of environmental systems.

7005 Graduate Design Studio V (6) F Prereq.: ARCH 7004. 12 hrs. studio. Introduction to contextual building design in an urban setting with emphasis on site and context analysis and community planning in a collaborative working environment.

7006 Graduate Design Studio VI (6) Prereq.: ARCH 7005. 12 hrs. studio. Credit will not be given for both this course and ARCH 8000. Emphasis on the synthesis of all issues addressed in previous studios in the comprehensive design of buildings.

7040 Structural Concepts and Forms (3) Relationship between the schematic properties of prototypical building forms and basic types of total system behavior.

7050 Project Planning/Management (3) Relationship of the construction process and project planning to building projects of various scales and complexities.

7080 Building Energy Systems (3) Prereq.: ARCH 3171 and 3173 or equivalent. Building energy performance and human interaction.

7600 Seminar in Architecture (3) May be taken for a max. of 9 hrs. of credit when topics vary. Selected topics in architecture.

7900 Architectural Studies/Research (3) Prereq.: written consent of School of Architecture Graduate Committee. May be taken for a max. of 6 sem. hrs. of credit. Selected readings and/or research under the supervision of graduate faculty.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading. Credit will not be given for both this course and ARCH 7006.

ART • ART

Registration for all multiple-credit courses taken for over three credits in a given semester will require the prior permission of the instructor. Multiple credit courses are designated with an asterisk (*) following the course number.

General education courses are marked with stars (★).

GENERAL COURSES

★ **1001 Introduction to Fine Arts (3)** Fundamental problems and concepts of art in the fields of design, sculpture, graphics, painting, and ceramics, as related to home, community, religion, commerce, and industry.

1008 Introduction to Two-Dimensional Composition (3) 6 hrs. studio. Credit will not be given for both this course and ART 1011. An introduction to two-dimensional art and design practices using a variety of materials and techniques.

1009 Introduction to Three-Dimensional Art (3) 6 hrs. studio. Credit will not be given for both this course and ART 1012. Introduction to fundamental concepts of three-dimensional art; projects will explore line, plane, spatial organization, surface, and volume using a variety of materials and techniques.

1010 Introduction to Drawing (3) 6 hrs. lab. Credit will not be given for both this course and ART 1847. Drawing from observation and invented images; various drawing materials, methods, and subjects are explored as a mean to develop perceptual ability and descriptive drawing skills; drawing concepts including composition, line, perspective, shape, space, and value.

1011 Two-Dimensional Design (3) Prereq.: majors and interior design majors only. 4 hrs. lab; 1 hr. lecture. Studio projects in visual literacy; fundamentals of the structure of two-dimensional works of art; principles of organization and elements of art; role of the visual arts in society.

1012 Three-Dimensional Design (3) Prereq.: majors only. 6 hrs. studio. Credit will not be given for both this course and ART 1009. Introduction to the fundamental concepts of three-dimensional art. Projects will explore line, plane, spatial organization, surface, and volume; using a variety of materials and techniques.

1013 Studio Art Abroad (3) 6 hrs. studio. Studio art fundamentals within the specific medium of faculty members participating in Academic Programs Abroad.

4020 Special Topics in Studio (3) Prereq.: consent of department. May be taken for a max. of 6 hrs. of credit when topics vary. 6 hrs. studio. Directed studies with a visiting artist.

4030 Independent Study in Studio Art (3) Prereq.: permission of instructor. Proposal and execution of an individual creative research project under the direction of a studio art faculty member.

4044 Gender Aesthetics: Art Theory and Criticism (3) May be taken for a max. of 6 hrs. of credit. Interdisciplinary study of art, writing, and gender; emphasis on the interaction of art and writing about art as it reflects gender.

4080 Performance Art (3) Prereq.: completion of studio art fundamental courses and permission of instructor. 6 hrs. studio. Multi-disciplinary "live" art studio problems utilizing a diverse range of media such as drawing and painting, sound and movement, and poetry; lectures and discussions on the history of performance art.

7042 Visiting Artist Seminar (3) May be taken for a max. of 9 hrs. of credit. Seminar with visiting artist; contemporary art, criticism, individual and group projects.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

CERAMICS

1661 Introduction to Ceramics I (3) Prereq.: majors/minors only, ART 1009 or 1012 or consent of instructor. 6 hrs. studio. Exploration of hand-building

techniques, surface applications, and kiln firing.

1662 Introduction to Ceramics II (3) Prereq.: ART 1009 or 1012 or consent of instructor. 6 hrs. studio. Problems in ceramic forming techniques, mixing of clays and glazes and kiln firing.

2661 Intermediate Ceramics (3) Prereq.: ART 1661, 1662, and permission of instructor. 6 hrs. studio. May be taken for a max. of 9 sem. hrs. of credit. An Honors course, ART 2662 is also available. Studio techniques and issues in ceramics; continued investigation of hand-building and wheel-throwing.

2662 HONORS: Intermediate Ceramics (3) Prereq.: ART 1661, 1662, and permission of instructor. 6 hrs. studio. May be taken for a max. of 9 sem. hrs. of credit. Same as 2661 with special emphasis for qualified Honors students.

4641 Special Studies in Ceramics (3) Prereq.: 1661 or 1662 or permission of instructor. 6 hrs. of studio. May be taken for a max. of 9 sem. hrs. of credit. Advanced studio work in predetermined area of specialization with emphasis on formulation of clay bodies, glazes and practice of kiln operation, building, and maintenance.

4661 Advanced Ceramics (3) Prereq.: ART 2661 or permission of instructor. 6 hrs. studio. May be taken for a max. of 9 sem. hrs. of credit. Studio problems in ceramics.

4691 Senior Project (3) Prereq.: 12 sem. hrs. of credit in ART 4661. 6 hrs. studio. May be taken for a max. of 6 hrs. of credit. This course is not offered during the summer term. Proposal and execution of a ceramics project under the direction of a major professor.

7600 Graduate Ceramics (3,6) 6 or 12 hrs. studio each. May be taken for a max. of 36 sem. hrs. of credit.

DIGITAL ART

2050 Digital Art I (3) Prereq.: majors/minors only, ART 1008 or 1011. 2 hrs. lecture/2 hrs. studio. Introduction to digital applications in art.

2055 Digital Art II (3) Prereq.: ART 2050 or permission of instructor. 2 hrs. lecture; 2 hrs. lab. Introductory work in digital animation and multimedia applications.

4050 Digital Art III (3) Prereq.: ART 2055 or equivalent. 6 hrs. studio. Primarily for students majoring in art. Intermediate work in digital animation.

4055 Digital Art IV (3) Prereq.: ART 4050 or equivalent. 6 hrs. studio. Primarily for students majoring in art. Advanced work in digital imaging, video, and animation.

GRAPHIC DESIGN

1551 Basic Design (3) Prereq.: majors/minors only, ART 1008 or 1011. 6 hrs. studio. Basic design projects that investigate form and the delineation of space within a two-dimensional field; emphasis on hand skills and traditional design media.

2544 Letter Forms (3) Prereq.: ART 1011 and permission of instructor. 6 hrs. studio. An Honors course, ART 2545 is also available. Drawn letter form studies; traditional and contemporary variations.

2545 HONORS: Letter Forms (3) Prereq.: ART 1011 and permission of instructor. 6 hrs. studio. Same as ART 2544, with special emphasis for qualified Honors students.

2551 Typography for Visual Communications (3) Prereq.: consent of instructor and ART 1011. 2 hrs. lecture; 2 hrs. lab. Historical overview of type and letter forms; introduction to professional typography in print and digital environments; primary focus will be applications to contemporary communications.

2552 Color Design (3) Prereq.: ART 1011 and permission of instructor. 6 hrs. studio. Color as a functional design element of perception and visual communication.

2554 Graphic Design I (3) Prereq.: ART 1011 and permission of instructor. 6 hrs. studio. An Honors course, ART 2555, is also available. Professional procedures for solving design problems from first ideas through finished presentations; emphasis on the integration of letter forms and graphics.

2555 HONORS: Graphic Design I (6) Prereq.: ART 1011 and permission of instructor. 6 hrs. studio. Same as ART 2554, with special emphasis for qualified Honors students.

2564 Graphic Abstraction (3) Prereq.: ART 1011 and permission of instructor. 6 hrs. studio. Simplification of pictorial images as graphic elements.

4059 Digital Media Capstone (3) Prereq.: At least 15 hours credit towards the Digital Media-Arts minor. 2 hrs. lecture, 2 hrs. lab. Credit will not be given for both EE 4859 and ART 4059. Culminating capstone project experience requiring interdisciplinary teams to prototype a digital media work or application.

4514 Experimental Design (3) Prereq.: consent of instructor based on review of student's portfolio. 6 hrs. studio. Advanced experimental work in a predetermined area of graphic design.

4526 Prepress Production Techniques (3) Prereq.: consent of instructor. 6 hrs. studio. Studio techniques related to production problems in the graphic design profession; typesetting methods; primary printing processes, mechanical and digital systems.

4527 Applied Typography (3) Prereq.: consent of instructor. 6 hrs. studio. Developing and understanding typographic skills through functional and aesthetic use of type and its application within the digital environment.

4541 Special Studies in Graphic Design (3) Prereq.: consent of instructor based on review of student's portfolio. 6 hrs. studio. May be taken for a max. of 9 sem. hrs. of credit. Advanced work in a predetermined area of specialization.

4544 Advanced Production Techniques (3) Prereq.: consent of instructor. 6 hrs. studio. Advanced techniques and practical experience with graphic arts equipment.

4550 Digital Imaging for Visual Communications (3) Prereq.: consent of instructor and ART 2551 or equivalent. 2 hrs. lecture; 2 hrs. lab. Basic exploration of digital photographic technology and its application in communications; topics include: scanning, image processing and manipulation, digital filtering, and imaging peripherals; emphasis on emerging technology and preparing images for multimedia applications.

4551 Graphic Design II (3) Prereq.: consent of instructor. 6 hrs. studio. Problems in design related to the professional design field; methods of reproduction, exhibition techniques, and digital applications.

4555 Graphic Design III (3) Prereq.: consent of instructor. 6 hrs. studio. Principles of visual communication through graphic design; problems in design theory and application.

4560 Interactive Media for Visual Communications (3) Prereq.: consent of instructor and ART 4550 or equivalent. 2 hrs. lecture; 2 hrs. lab. Basic application of interactive digital technology: design and application of Internet-based communications, hypermedia language, virtual reality, sound and visual synchronization, communications standards, emerging technologies, and multimedia; special focus on the study and application of interactive multimedia theory.

4561 Survey of Graphic Design (3) Prereq.: consent of instructor. Overview of graphic design, covering its development from its inception to the present; its relationship to other arts; and the cultural influences and technological advances that have shaped its present role in the field of visual communications.

4564 Senior Graphic Design (3) Prereq.: consent of instructor. 6 hrs. studio. May not be taken concurrently with ART 4555. This course is not offered during the summer term. Design projects investigating problems of visual communication; individual and group projects with professional-level presentations.

4567 Interactive Multimedia Design (3) Prereq.: consent of instructor. 6 hrs. studio. May be taken for a max. of 6 hrs. of credit. Application of interactive computer graphics technology for art and design; design

and application of CD-ROM, video disks, Internet-based communication, hypermedia language, virtual reality, sound and visual synchronization, communication standards, emerging technologies, and multimedia; emphasis on study and application of interactive multimedia design theory.

4574 Graphic Design Synthesis (3) Prereq.: consent of instructor based on review of student's portfolio. 6 hrs. studio. May be taken for a max. of 6 sem. hrs. of credit. Project or internship approved by graphic design faculty committee.

4576 Digital Imaging Techniques (3) Prereq.: consent of instructor. 6 hrs. studio. May be taken for a max. of 6 sem. hrs. of credit. Digital imaging technology and its application in art and design areas; scanning, image processing, and manipulation, digital filtering, and imaging peripherals; emphasis on digital imaging aesthetics, emerging technology, and preparing images for printed and multimedia applications.

7500* Graduate Graphic Design (3,6) 6 or 12 hrs. studio each. May be taken for a max. of 36 sem. hrs. of credit.

7553, 7554, 7555, 7556 Graduate Research in Design (3 each) Prereq.: consent of instructor. 6 hrs. studio each.

JEWELRY/METALSMITHING

2655 Basic Jewelry/Metalsmithing (3) 6 hrs. studio. Piercing, construction, cold connection, soldering, forming, and stone setting; studio problems in bronze, copper, and sterling silver.

2656* Intermediate Jewelry/Metalsmithing (3,6) Prereq.: ART 2655 or consent of instructor. 6, 12 hrs. studio. May be taken for a max. of 9 hrs. of credit. Intermediate studio work in jewelry/metalsmithing involving model making and the casting processes.

4651* Special Studies in Jewelry/Metalsmithing (3,6) Prereq.: consent of instructor based on review of student's portfolio. 6, 12 hrs. studio. May be taken for a max. of 15 hrs.

of credit. Studio work in predetermined area of specialization with emphasis on a single technique, material or aesthetic research in art jewelry and metalsmithing.

4655* Advanced Jewelry/Metalsmithing (3,6) Prereq.: consent of instructor based on review of student's portfolio. 6, 12 hrs. studio. May be taken for a max. of 15 hrs. of credit. Advanced studio work in one specific process such as: forging, forming, reproduction processes, advanced construction techniques, CAD/CAM, mechanisms, clasps, chain construction. Emphasis on historical and contemporary aesthetic in art jewelry and metalsmithing.

PAINTING AND DRAWING

1847 Drawing and Composition (3) Prereq.: majors and Interior Design majors only. 6 hrs. studio. Credit will not be given for both this course and ART 1010. Basic principles of observation; emphasis on graphic analysis and delineation of spatial structure.

1848 Beginning Figure Drawing (3) Prereq.: majors/minors only, ART 1010 or 1847. 6 hrs. studio. Studies from the live model; introduction of graphic representation, structure, and form.

1849 Introduction to Painting (3) Prereq.: majors/minors only, ART 1008 or 1011, ART 1010 or 1847. 6 hrs. studio. Basic studio practice and theory in painting; traditional and modern materials and terminology; value and color experiences involving simple forms and space.

2800 HONORS: Painting II (3) Prereq.: ART 1848 and 1849 and permission of instructor. 6 hrs. studio. Same as ART 2881, with special emphasis for qualified Honors students.

2879 Figure Drawing II (3) Prereq.: ART 1848. 6 hrs. studio. Continuing studies in life drawing.

2880 Intermediate Drawing (3) Prereq.: ART 1847 and 1848. 6 hrs. studio. Imaginative Composition utilizing the figure, still-life, and landscape forms.

2881 Painting II (3) Prereq.: ART 1848 and 1849. 6 hrs. studio. May be taken for a max. of 6 sem. hrs. of credit. An Honors course, ART 2800 is also available. Studio problems in painting directed toward conceptual attitudes, analysis of structure, and color in composition; individual criticism, class discussion.

2882 Abstract Painting (3) Prereq.: ART 1847, 1848, and 1849. 6 hrs. studio. Studio approaches to abstraction; individual criticism, class discussion.

2883 Water Media Painting (3) Prereq.: ART 1010 or 1847, and 1848. 6 hrs. studio. Objects and landscape; composition in water-soluble media on paper.

4800 Senior Project Painting (3) Prereq.: ART 4881 and 4889. 6 hrs. studio. May be taken for a max. of 6 sem. hrs. of credit. Proposal and execution of a painting project under the direction of a major professor.

4841* Special Studies in Painting and Drawing (3) Prereq.: consent of instructor based on review of student's portfolio. 6 hrs. of studio. May be taken for a max. of 9 sem. hrs. of credit. Advanced studio work in a predetermined area of specialization.

4880 Figure Painting (3) Prereq.: ART 2881. 6 hrs. studio. May be taken for a max. of 9 sem. hrs. of credit. Studies from the life model.

4881 Painting III (3) Prereq.: ART 2881. 6 hrs. studio. May be taken for a max. of 9 sem. hrs. of credit.

Contemporary concepts in painting; individual criticism, class discussion.

4882 Advanced Water Media Painting (3) Prereq.: ART 2883. 6 hrs. studio. May be taken for a max. of 12 sem. hrs. of credit. Advanced studio work in water-soluble media on paper.

4884 Painting IV (3) Prereq.: ART 4881. 6 hrs. studio. May be taken for a max. of 6 sem. hrs. of credit. Research into advanced visual schema through self-initiated studio problems.

4886 Landscape Painting (3) Prereq.: ART 2881. 6 hrs. studio. On-location and studio development of the landscape.

4887 Advanced Figure Drawing III (3) Prereq.: ART 2879 or equivalent. 6 hrs. studio. May be taken for a max. of 9 sem. hrs. of credit. Study of the human figure using various media.

4889 Advanced Drawing Workshop (3) Prereq.: 9 sem. hrs. of drawing. 6 hrs. studio. May be taken for a max. of 9 sem. hrs. of credit. Directed studies for the advanced student.

7800* Graduate Painting (3,6) 6 or 12 hrs. May be taken for a max. of 36 sem. hrs. of credit.

7881 Painting Seminar (3) Prereq.: students currently enrolled in the graduate painting program. 3 hrs. seminar. Pass/fail grading. May be taken for a max. of 18 sem. hrs. of credit. Discussion of formal and conceptual issues related to the medium.

PHOTOGRAPHY

- 2995 Basic Photography (3)** Prereq.: majors/minors only, ART 1008 or 1011. 6 hrs. studio. Basic concepts and techniques of black and white photography; emphasis on photography as a visual art.
- 2996 Intermediate Photography (3)** Prereq.: ART 2995 and permission of instructor. 6 hrs. studio. An Honors course, ART 2997, is also available. Continued investigation of basic photographic principles, utilizing specific subject areas drawn from major themes in visual art.
- 2997 HONORS: Intermediate Photography (3)** Prereq.: ART 2995 and permission of instructor. 6 hrs. studio. Same as ART 2996, with special emphasis for qualified Honors students.
- 3992 Introduction to Digital Photography (3)** Prereq.: ART 2996 or 2997 and permission of instructor. 6 hrs. studio. Introduction to digital photographic tools and techniques.
- 3994 Advanced Photography (3)** Prereq.: ART 2996 and permission of instructor. 6 hrs. studio. Technical investigation of contemporary materials; critical testing of equipment, films, and printing papers; emphasis on process control as an expressive tool.
- 3995 Introduction to Digital Art (3)** Prereq.: ART 3994, 3996, and permission of instructor. 6 hrs. studio. Introduction to digital photographic tools and techniques.
- 3996 Color Photography I (3)** Prereq.: ART 2996 and permission of instructor. 6 hrs. studio. Introduction to color theory, color perception, and contemporary color printing materials; emphasis on color print portfolio.
- 4941 Special Studies in Photography (3)** Prereq.: ART 3992, or 3994, or 3996 and permission of instructor. 6 hrs. studio. May be taken for a max. of 12 sem. hrs. of credit. Individual creative research in a predetermined area of specialization.
- 4992 Concepts in Advanced Digital Photography (3)** Prereq.: ART 3992. 6 hrs. studio. Continued explorations of emerging concepts in digital photography.
- 4994 Large Format Photography (3)** Prereq.: ART 3994 and permission of instructor. 6 hrs. studio. Fundamentals of the view camera.
- 4996 Color Photography II (3)** Prereq.: Art 3996 and permission of instructor. 6 hrs. studio. May be taken for a max. of 9 sem. hrs. of credit. Continued investigation of color photography; color negative materials and printing processes.
- 4997 Advanced Photographic Processes (3)** Prereq.: ART 3992, or 3994, or 3996, and permission of instructor. 6 hrs. studio. Exploration of alternative photographic processes; emphasis on historical printmaking techniques.
- 4998 Senior Project: Photography (3)** Prereq.: permission of instructor. 6 hrs. studio. To be taken in the last full semester of the senior year. This course is not offered during the summer term. Proposal for and execution of an independent photography project under the direction of a major professor.
- 7900* Graduate Photography (3,6)** Prereq.: permission of instructor. May be taken for a max. of 36 sem. hrs. 6 or 12 hrs. of studio. Emphasis on personal vision and contemporary issues in photography.

PRINTMAKING

- 1360 Introduction to Printmaking (3)** Prereq.: ART 1011 and 1847. 6 hrs. studio. Basic concepts, materials, and processes in printmaking.
- 2332 Silkscreen Printing (3)** Prereq.: ART 1360. 6 hrs. studio. Basic silkscreen techniques using stencils, hand-drawn and photomechanical applications, and digital transparencies.
- 2342 Papermaking (3)** Prereq.: ART 1011. 6 hrs. studio. Introduction to the art and technology of making paper by hand.
- 2352 Relief Printmaking (3)** Prereq.: ART 1010 or 1847. 6 hrs. studio. May be taken for a max. of 9 hrs. of credit. Investigation of relief printing techniques.
- 2360 Intermediate Printmaking (3)** Prereq.: ART 1360. 6 hrs. studio. May be repeated for a max. of 6 sem. hrs. of credit. An Honors course, ART 2361, is also available. Comprehensive investigation of printmaking concepts, materials, and techniques; emphasis on color printing.
- 2361 HONORS: Intermediate Printmaking (3)** Prereq.: ART 1360 and permission of instructor. 6 hrs. studio. May be repeated for a max. of 6 sem. hrs. of credit. Same as ART 2360, with special emphasis for qualified Honors students.
- 2363 Intaglio (3)** Prereq.: ART 1360. 6 hrs. studio. Intaglio printmaking processes, including drypoint, soft ground, line etching and aquatint methods.
- 2371 Lithography (3)** Prereq.: ART 1360. 6 hrs. studio. May be repeated for a max. of 6 sem. hrs. of credit. Planographic processes in lithography emphasizing drawing with crayon, wash, and transfer methods.
- 2381 Book Arts (3)** Prereq.: ART 1360. 6 hrs. studio. Basic theory, design, and production in the book arts.

- 2382 Intermediate Book Arts (3)** Prereq.: ART 1381. 6 hrs. studio. May be taken for a max. of 9 hrs. of credit. Continued investigation of the book arts; emphasis on personal development in a variety of structures.
- 2392 Digital Printmaking (3)** Prereq.: ART 2360. 6 hrs. studio. May be taken for a max. of 6 sem. hrs. of credit. Exploration of personal imagery by means of digital and photomechanical application for contemporary printmaking.
- 4300 Senior Project: Printmaking (3)** Prereq.: 9 hrs. of 4000-level printmaking courses and senior status. 6 hrs. studio. May be taken for a max. of 6 hrs. of credit. This course is not offered during the summer term. Proposal and execution of a printmaking project under the direction of a major professor.
- 4341 Advanced Papermaking (3, 6)** Prereq.: ART 2342, or permission of instructor. 6 or 12 hrs. studio. May be taken for a max. of 6 sem. hrs. of credit. Advanced studies in papermaking, with a focus on developing an individual creative direction.
- 4360 Advanced Printmaking (3)** Prereq.: ART 2360. 6 hrs. studio. May be taken for a max. of 6 sem. hrs. of credit. Advanced concepts, materials, and processes in printmaking with a focus on the development of individual ideas and expression.
- 4366* Special Studies in Printmaking (3,6)** Prereq.: consent of instructor. 6 or 12 hrs. studio. May be taken for a max. of 12 sem. hrs. of credit. Individual creative research in a predetermined area of specialization.
- 4380 Monotype and Monoprint (3)** Prereq.: ART 1847 and 1360 or permission of instructor. 6 hrs. studio. May be taken for a max. of 6 sem. hrs. of credit. Creative image development using monotype and monoprint processes, with a focus on making unique prints.
- 4381 Advanced Book Arts (3 or 6)** Prereq.: ART 2382. 6 or 12 hrs. studio. May be taken for a max. of 6 sem. hrs. of credit. Advanced exploration, design, and production in the book arts; emphasis on self-initiated book art problems.
- 4383 Letterpress Printmaking (3)** Prereq.: ART 2381 or permission of instructor. 6 hrs. studio. May be taken for a max. 6 sem. hrs. of credit. Fundamental concepts, design, and processes using digital and traditional letterpress printing technologies.
- 4390 Large Format Printmaking (3)** Prereq.: ART 4360 or permission of instructor. 6 hrs. studio. May be repeated for a max. of 6 sem. hrs. of credit. Advanced work in printmaking emphasizing multiple color and mixed media applications for creating large-scale prints.
- 4391 Digital & Alternative Print Media (3)** Prereq.: ART 2392 and 4360. May be taken for a max. of 6 sem. hrs. credit. Advanced investigation of digital, photomechanical, and alternative processes in printmaking.
- 7300* Graduate Printmaking (3,6)** 6 or 12 hrs. May be taken for a max. of 36 sem. hrs. of credit.

SCULPTURE

- 1762 Sculpture I (3)** Prereq.: majors/minors only, ART 1009 or 1012. 6 hrs. studio. Introduction to a variety of materials and techniques used in contemporary sculpture. Students will explore contemporary and historical concepts and terminology for working in three-dimensional space.
- 2761 Intermediate Sculpture (3)** Prereq.: ART 1661, 1762. 6 hrs. studio. Studies in sculpture involving various materials and methods. May include metal fabrication, metal casting, and mixed media.
- 4741* Special Studies in Sculpture (3,6)** Prereq.: consent of instructor based on review of student's portfolio. 6 or 12 hrs. studio. May be taken for a max. of 9 sem. hrs. of credit. Advanced studio work in predetermined area of specialization.
- 4761 Advanced Sculpture (3)** Prereq.: ART 2761 and 2655 or 2661. 6 hrs. studio. May be taken for a max. of 12 sem. hrs. of credit. Studies with various materials and methods, course content may include kinetics, installation, mixed media, nature-based art.
- 4762 Senior Project: Sculpture (3)** Prereq.: 6 sem. hrs. of credit from ART 4761. 6 hrs. studio. To be taken in the last semester of the senior year. Independent study requiring the proposal and execution of a sculpture project, under the direction of a major professor.
- 7700* Graduate Sculpture (3,6)** 6 or 12 hrs. May be taken for a max. of 36 sem. hrs. of credit.

ART HISTORY • ARTH

General education courses are marked with stars (★).

- ★ **1440 Historical Survey of the Arts (3)** Prehistoric, Near-Eastern, Greek, Roman, and medieval art.
- ★ **1441 Historical Survey of the Arts (3)** Renaissance to modern art.
- ★ **2401 Art of the Ancient Near East and Egypt (3)** Development of art and architecture in the ancient Near East

- and Egypt over three millennia; influences of one culture on another and subsequent contributions to Western art.
- ★ **2411 Survey of Asian Art (3)** The arts of China, India, and Japan in relation to religious and philosophical beliefs that affected their production.
- 2469 Italian Renaissance Art (3)** Italian painting, sculpture, and architecture from 1400 to 1600.
- ★ **2470 Survey of 20th Century Art (3)** Modern art.
- 2480 Introduction to Museum Studies (3)** Introduction to art and history museums, their missions and functions; practical aspects and philosophical issues related to museums.
- 4401 History of Prints (3)** History of prints from the 15th century to the present.
- 4404 The Art of Rome (3)** Development of architecture, sculpture, and painting from Rome's early beginnings (600-200 B.C.) to the end of the 4th century.
- 4405 Early Christian and Byzantine Art (3)** Painting, sculpture, and architecture of the Christian era through 12th century Byzantium.
- 4406 Romanesque Art (3)** Architecture, sculpture, manuscripts, and painting from the 9th through the 12th centuries in France, Germany, and England.
- 4409 Early Greek Art (3)** Greek art to the time of the Persian Wars.
- 4410 Later Greek Art (3)** Greek art from the time of Themistocles to the age of Augustus.
- 4412 Gothic Art (3)** Architecture, sculpture, and painting of Northern Europe from 1150 to 1450.
- 4413 Early Netherlandish and German Painting (3)** Painting in the Netherlands and Germany in the 15th and 16th century.
- 4420 Studies in Art History (3)** May be repeated for credit when topics vary. Advanced work in a predetermined area of specialization.
- 4422 History of Modern Design (3)** Aesthetic theory and stylistic evolution of decorative arts from mid-19th century to the present; emphasis on crafts, architectural decoration, furniture, interior design, and industrial design; Victorian period, arts and crafts movement, art nouveau, Bauhaus, and international style.
- 4423 Early Renaissance Painting in Italy (3)** The origins and early development of Italian Renaissance painting in Florence and Siena.
- 4424 High Renaissance and Mannerist Painting in Italy (3)** The climax and aftermath of Italian Renaissance painting in Florence, Rome, and Venice.
- 4425 Renaissance Sculpture in Italy (3)** The origins and development of Italian Renaissance sculpture; its function, patronage, and significance within its social and cultural context.
- 4427 Northern Baroque Painting (3)** Dutch, Flemish, and French painting of the 17th century.
- 4429 Southern Baroque Art (3)** Painting, sculpture, and architecture of the 17th century in Italy and Spain.
- 4433 18th Century European Art (3)** European art from the age of absolutism to the beginning of the Napoleonic era, including Rococo art, the influence of Enlightenment thought, the rediscovery of classical antiquity, Neoclassicism, and the impact of the French Revolution on the visual arts.
- 4441 Chinese Painting (3)** History of Chinese painting from prehistoric times through the 20th century.
- 4442 Japanese Art (3)** History of Japanese painting, sculpture, architecture, and ceramics from prehistoric times through the early 20th century.
- 4443 Indian Art (3)** History of Indian painting, sculpture, and architecture from prehistoric times through the 16th century.
- 4444 Southeast Asian Art (3)** History of architecture, sculpture, ceramics, and painting in Burma, Thailand, Cambodia, Indonesia, Vietnam, and Laos from the prehistoric times through the 19th century.
- 4450 19th Century European Painting (3)** History of painting in European countries from the French Revolution (1789) to 1900; emphasis on neoclassicism, romanticism, realism, impressionism, post-impressionism, and symbolism.
- 4451 Early 20th Century European Art (3)** History of painting and sculpture in European countries from 1900 to 1960; emphasis on Fauvism, Cubism, geometric abstraction, Futurism, Dada and Surrealism, German Expressionism, British figurative art, and the School of Paris.
- 4464 American Art to 1900 (3)** North American painting, architecture, and sculpture from the colonial beginnings to 1900; emphasis on painting.
- 4465 American Art: 1900-1960 (3)** Study of American painters and sculptors between 1900 and 1960; from the Impressionists to the Abstract Expressionists; emphasis on

the artists' connections to social, political, and cultural developments.

4466 Survey of Contemporary Art (3) Major movements in art from World War II through the 1980s; the wane of modernism and the rise of postmodernism; focus on America and Europe, but Latin American and non-Western art also considered.

4467 Latin American Art (3) Pre-Hispanic, colonial, and contemporary architecture, painting, sculpture, and related arts throughout Latin America.

4468 Issues in Contemporary Art (3) Principal issues confronting contemporary artists and the sources and theories behind the issues.

4469 Art of the American South: 1560-1861 (3) History of architecture, painting, sculpture, and decorative arts made in the states below the Mason-Dixon Line.

4470 History of Photography (3) History of photography from its inception in the 1830s until the present; technological development of the medium and its inherent aesthetics; interrelationships between photography and more traditional media.

4480 Video Art and Theory (3) Sources and origins of artists' video from the late 1960s to the present day; consideration of theoretical, political, and technological aspects; survey of single-channel, projected, installation, and Internet formats for video art display.

4482 Digital Art History (3) Survey of art and technology focusing on the development of computer art and digital, interactive, and network-based art forms from the 1950s to the present.

4484 New Media Art Theory (3) A reading intensive course that introduces students to issues and theories of new media art.

4490 Independent Study in Art History (1-3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary.

4499 Undergraduate Seminar (3) Prereq.: ARTH 1440, 1441, and any four additional art history courses; only open to art history majors of junior and senior standing. Intensive reading, writing, and classroom discussion; introduction to art-historical research and methodologies.

7400 Art Theory and Criticism (3) Critics; building of art collections from ancient to modern times.

7410 Colloquium in Art Historical Methods (1) An introduction to the historical development of the discipline of art history and art historical methodology.

7420 Special Topics in Art History (3) Prereq.: graduate standing in art or consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary. Advanced topics in art history.

7441, 7442 Graduate Research Seminar in History of Art (3,3) Each course may be taken for a max. of 6 hrs. of credit when topics vary; no more than 3 hrs. per semester.

7490 Independent Study in Art History (1-3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary.

ASTRONOMY • ASTR

General education courses are marked with stars (★).

★ **1101 The Solar System (3)** Prereq.: MATH 1021 or an ACT math score of at least 21. Fundamental principles of the solar system.

★ **1102 Stellar Astronomy (3)** Prereq.: MATH 1021 or an ACT math score of at least 21. Fundamental principles of stellar astronomy.

1108 Astronomy Laboratory (1) 2 hrs. lab. Prereq.: credit or registration in ASTR 1101. Visual observation of positions of celestial bodies with application to star charts and globes; visual and photographic observations will be made using telescopes; provides student with practical observing experience.

1109 Astronomy Laboratory (1) 2 hrs. lab. Prereq.: credit or registration in ASTR 1102. Analysis of light from terrestrial and celestial sources; visual and photographic observations of stars and nebulae; training in the use of smaller telescopes and larger telescopes with multimedia technologies.

2001 Current Topics in Astronomy and Astrophysics (3) S Prereq.: ASTR 1101, 1102. Primarily for nonscience students. Topics of current interest in astronomy; recent topics include extraterrestrial intelligence, black holes, exploration of the solar system.

4221, 4222 Introductory Astrophysics (3,3) V Prereq.: PHYS 1202 or 2102 or consent of instructor. ASTR 4221 is prerequisite for 4222. Sun, stars, and stellar systems; results and problems of modern astrophysical research.

4261 Modern Observational Techniques (3) V Prereq.: ASTR 1101, 1102 and MATH 1552. 1 hr. lecture; 6 hrs. lab. Modern astronomical observations and reductions; the telescope, astronomical photography, spectroscopic and

photoelectric observations and reductions.

4750 Special Topics in Observational Astronomy (3) V May be taken twice for credit when topics vary. One topic scheduled each time course is offered; current topics include astronomical spectroscopy and astronomical photometry.

4997 Problems in Astronomy (1-3) Prereq.: consent of instructor. May be taken for a max. of 3 sem. hrs. of credit. Individual reading and theoretical and/or experimental work on advanced problems.

6101 Astronomy for Teachers (4) Su, V For teachers and students in the College of Education. Cannot be taken for degree credit by physics majors. General astronomy including the solar system, stellar astronomy, and stellar systems.

6108 Astronomy Laboratory for Teachers (1-3) Su V For in-service teachers and graduate students in the College of Education. May not be taken for credit by physics majors. May be taken for a max. of 9 hrs. of credit. 2-6 hrs. lab. Visual observation techniques including the use of star charts and globe; visual and photographic observation of celestial objects such as the sun, moon, stars, and nebulae using small reflectors as well as large telescopes through multimedia technologies.

7741, 7742 Stellar Astrophysics (3,3) F, S ASTR 7741 is prerequisite for 7742. Also offered as PHYS 7741, 7742. Application of physical principles to study of stars; spectroscopy, stellar atmospheres, stellar structure, and stellar evolution.

7751, 7752 Galactic Astrophysics (3,3) F, S ASTR 7751 is prerequisite for ASTR 7752. Also offered as PHYS 7751, 7752. Application of physical principles to study of galaxies; interstellar medium, galactic structure and stellar motions, galaxies, and cosmology.

7777 Seminar in Astronomy and Astrophysics (1-6) V May be taken for a max. of 6 sem. hrs. of credit. Also offered as PHYS 7777.

7783 Topics in Astronomy and Astrophysics (3) V May be taken for a max. of 6 hrs. of credit. Also offered as PHYS 7783.

BASIC SCIENCES • BASC

2010 Inquiry Approaches to Math and Science Teaching (1) Introduction to the theory and practice of inquiry-based math and science instruction; design and execution of lesson plans in elementary school under guidance of course instructor and mentoring elementary school teacher.

2011 Inquiry-Based Math and Science Lesson Design (1) Prereq.: BASC 2010. Design and teach lesson plans in middle school under guidance of course instructor and mentoring middle school teacher.

6001 Topics in Physical Science for Elementary School Teachers (3) Su only May be taken for a max. of 12 hrs. of credit when topics vary.

6002 Topics in Biological Science for Elementary School Teachers (3) Prereq.: 8 sem. hrs. of introductory biology. May be taken for a max. of 9 hrs. of credit when topics vary.

6003 Topics in Environmental Science for Elementary School Teachers (3) Su only May be taken for a max. of 9 hrs. of credit when topics vary.

7000 Methods of Instruction in College Life Science Laboratories (1) F Pass-fail grading. Philosophy and practice of life science laboratory education at the college level.

BIOLOGICAL ENGINEERING • BE

1250 Introduction to Engineering Methods (2) F 6 hrs. lab. Fundamentals of engineering design; presentation of an engineering design; graphical expression of engineering design using computer-aided drafting.

1252 Biology in Engineering (2) S Prereq.: credit or registration in BIOL 1201. 1 hr. lecture; 3 hrs. lab. Effect of variability and constraints of biological systems on engineering problem solving and design; engineering units; engineering report writing; oral report presentation; laboratory demonstration of biological engineering analysis.

2307 Elements of Landscape Construction (3) F, S Prereq.: MATH 1015 or 1022. 2 hrs. lecture; 3 hrs. lab. Theory and use of tape, level, transit, plane table, and compass; principles of area and volume calculations, land slope, drainage grades, legal land descriptions, and topographic mapping.

2350 Experimental Methods for Engineers (3) S Prereq.: BE 2352. 2 hrs. lecture; 3 hrs. lab. Introduction to experimental methods, technical report writing, and instrumentation for engineering applications; measurement of temperature, pressure, flow, strain, and vibration in biological products; microprocessor data loggers and computer data acquisition systems.

2352 Quantitative Biology in Engineering (3) F Prereq.: BE 1252. 2 hrs. lecture; 3 hrs. lab. Characterization of biological phenomena in engineering design; relationships among parameters using linear and nonlinear statistical

expressions; case studies of engineering design solutions.

3249 Engineering Practice I (3) Su only Prereq.: consent of instructor. Pass-fail grading. A minimum of six weeks full-time employment in an industry participating in the summer program. Selected engineering problems in an industrial environment.

3250 Engineering Practice II (3) Su only Prereq.: consent of instructor. Pass-fail grading. A minimum of six weeks full-time employment in an industry participating in the summer program. Selected engineering problems in an industrial environment.

3290 Professionalism for Biological Engineers (2) Prereq.: Grad of "C" or better in CE 2450. Ethical standards, technical communication, goal setting, professionalism and professional organizations, safety and risk, team dynamics, and proposal preparation.

3320 Mechanical Design for Biological Engineers (3) Prereq.: CE 3400; credit or registration in CE 2460 or ME 3133. 2 hrs. lecture; 3 hrs. lab. Term project in mechanical design. Philosophy of mechanical design for biological engineering; materials for construction; frame design; power transmission.

3340 Process Design in Biological Engineering (3) S Prereq.: CE 2200 and credit or registration in ME 3333. 2 hrs. lecture; 3 hrs. lab. Application of engineering and science concepts to design unit operations and processes relevant to biological engineering.

3371 Irrigation Fundamentals and Management (3) Prereq.: consent of instructor. For majors in agriculture, design, and natural sciences. Cannot be used to fulfill College of Engineering requirements. Turf, landscaping, and other horticultural applications of irrigation; design of irrigation systems from water source to application and uptake by plants; covers typical irrigation application techniques from sprinkler to micro; friction loss in system components; irrigation scheduling; and auditing/troubleshooting irrigation system performance.

3381 Nonpoint Source Pollution Engineering (3) Prereq.: BE 2352 and EVEG 3110. 2 hrs. lecture; 3 hrs. lab. Water quality criteria and regulations for the agricultural community; production, treatment, and disposal of agricultural and food processing wastes; management of agricultural nutrients; nonpoint source pollution; bi-product utilization; land application; wetland restoration; stream sampling and analysis; re-aeration studies and modeling.

3989 Special Projects in Biological Engineering (1-4) F, S, Su Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit. Library research, experimental and/or theoretical investigation, and written report in form of engineering report.

4290 Senior Engineering Design and Professionalism (2) F Prereq.: BE 3290. Students work in teams to develop a detailed design to address a technical problem that the team chose in BE 3290. Activities include developing measurable design objectives and a product design specification, creating multiple design solutions, evaluating design solutions, and communicating a detailed design.

4292 Senior Engineering Design Laboratory (2) S Prereq.: BE 4290. 6 hrs. lab. Engineering principles used to complete the project set forth in the design outline submitted in BE 4290; design project completion.

4303 Engineering Properties of Biological Materials (3) V Prereq.: MATH 2065 and credit or registration in CE 3400. 2 hrs. lecture; 3 hrs. lab. Engineering properties, including rheology, friction, mechanical damage, texture, and thermal, optical, and electrical properties.

4323 Biomechanics for Engineers (3) V Prereq.: CE 2450. 2 hrs. lecture; 3 hrs. lab. Also offered as IE 4465. Mechanical behavior of the human musculoskeletal system and component tissue when physical work is performed; engineering mechanics applied to the activities; fundamental knowledge of human anatomy and physiology; workplace design.

4332 Molecular Methods in Biological Engineering (3) V Prereq.: BIOL 2083, BE 2350, and credit or registration in BE 4303. Fundamentals of the theory and applications of quantitative molecular techniques used in biological engineering research and design.

4340 Food and Bioprocess Engineering (3) V Prereq.: BE 2352; credit or registration in BE 3340. 2 hrs. lecture; 3 hrs. lab. Design and analysis of systems for processing biological materials, with emphasis on food; topics include biotechnology, fluid flow, thermodynamics, and transport phenomena in food and bioprocessing; unit operations, including freezing, extraction, drying, and aseptic processing.

4341 Biological Reactor Systems Design (3) S Prereq.: BIOL 2051 and BE 4352. 2 hrs. lecture; 3 hrs. lab. Microbial and biochemical principles used in design of biological reactors for biotransformation; metabolic output and cellular production; design of batch and continuous flow reactors utilizing microbial kinetic models; attached

and suspended growth systems and eucaryotic and procaryotic cells.

4342 Sugar Process Engineering (3) Prereq.: EE 2950, CE 2200 or ME 3834 or CHE 3101, ME 2334 or 3333 or CHE 3172. Processes used in the manufacture of raw and refined sugar; application of scientific and engineering principles to unit operations of evaporation, crystallization, extraction, solids handling and drying, centrifuging, clarification, and steam and power generation.

4347 Sugar Factory Design (3) Prereq.: credit or registration in BE 4342. 2 hrs. lecture; 3 hrs. lab. P and I diagrams for sugar processes and instrumentation/control strategies; detailed process design of heat transfer equipment, fluid flow systems including non-Newtonian flow, prime mover requirements, steam and power use, and reticulation, materials handling systems, utility systems, and materials of construction.

4352 Transport Phenomena in Biological Engineering (3) S Prereq.: BE 2352, BIOL 2051; credit or registration in CE 2200 and ME 3333. Mass balances with consideration of chemical and biological reaction kinetics; energy balance and principles of conduction, convection, and radiation including 3-D diffusion, transient heat transfer, and convection analysis; energy transfer in engineering design and analysis; principle of mass transfer.

4360 Mobile Fluid Power Control (3) Prereq.: ME 3834 or equivalent. 2 hrs. lecture; 3 hrs. lab. Theory and design of hydraulic systems and basic components; power steering, hydrostatic transmissions, electrohydraulic servovalves, manual and automatic control applications.

4362 Agricultural Precision Systems (3) 2 hrs. lecture; 3 hrs. lab. Principles and applications of geospatial technologies supporting precision agriculture/farming and planning for natural resource data management.

4380 Aquacultural Engineering (3) F Prereq.: senior standing. Engineering principles applied to aquacultural systems; water chemistry; fluid mechanics; aquacultural pumping plants; fish pond design; recirculating aquacultural systems; water filtration; disinfection; aeration and degassing.

4383 Natural Resource Engineering (3) F Prereq.: CE 2200. Engineering analysis and design of natural resource control systems, including open channels, vegetated waterways, terraces, water control structures, spillways, reservoirs, flood control, surface water quality, and wetlands.

4989 Independent Study in Biological Engineering (1-4) F,S,Su Prereq.: senior standing. Written engineering report required. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Biological engineering practice; library research, experimental and/or theoretical investigation.

7304 Advanced Natural Resource Engineering (3) V Prereq.: BE 4383. Advanced topics in statistical hydrology, flow theory, evapotranspiration, transport of pollutants, drainage, irrigation, erosion, sediment transport, and sedimentation applied to rural fields and watersheds.

7306 Agricultural Systems Engineering (3) V Prereq.: BE 4292 or equivalent. Applications of systems approaches to engineering problems in agriculture; queuing theory; modeling and simulation; linear programming; decision support systems and expert systems.

7340 Advanced Food Engineering and Biotechnology (3) V Prereq.: BE 4340. Design and modeling of food and bioprocessing systems; application of advanced thermodynamic principles and transport phenomena with emphasis on numerical techniques in the design, analysis, and modeling of food systems; focus on current research topics in food engineering and food biotechnology.

7350 Advanced Instrumentation and Control for Biological Systems (3) V Prereq.: BE 2350 and MATH 2065. 2 hrs. lecture; 3 hrs. lab. Theory of measurement and feedback integrated with applied design work with biological systems; focus areas include: aquaculture, precision farming, environmental applications, bioprocess, and biomedical measurement and control concepts.

7352 Advanced Transport Phenomena in Biological Engineering (3) V Prereq.: BE 4352. Transient heat and mass transfer in biological materials and systems; mathematics describing active and passive cellular transport; emphasis on numerical solution techniques for heat and mass flow in nonideal, heterogeneous systems, including kinetic and thermodynamic considerations.

7361 Biological Reactor Systems for Agricultural Waste Treatment (3) V Prereq.: BE 4341. Design of biological reactor systems for treatment of agricultural wastes; utilizing and developing kinetic models for suspended and attached-growth cultures; characterization of agricultural wastes and wastewaters; consideration of nutrient recovery, pathogen survival, odor reduction, and by-product recovery goals.

7381 Advanced Aquacultural Engineering (3) V Prereq.: BE 4380. Advanced topics in aquacultural aeration, oxygenation, disinfection of aquacultural systems, and aquacultural

wastewater characterization; integration with traditional agricultural production.

7500 Seminar (1) Prereq.: graduate standing in engineering. Only 1 sem. hr. of credit will be allowed toward the degree. Pass-fail grading.

7909 Advanced Topics in Biological Engineering (1-4) F,S,Su Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary. One or more phases of advanced biological engineering practice.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

BIOLOGICAL SCIENCES • BIOL

General education courses are marked with stars (★).

★ **1001 General Biology (3) F,S,Su** Credit will not be given for this course and BIOL 1201. For nonscience majors. Not for degree credit for a student majoring in a biological science. General concepts in cell biology, genetics, ecology, and evolution.

★ **1002 General Biology (3) F,S,Su** Prereq.: BIOL 1001 or 1201. Credit will not be given for this course and BIOL 1202. For nonscience majors. Not for degree credit for a student majoring in a biological science. Diversity, interactions, and life histories of microorganisms, fungi, plants, and animals.

1005 Introductory Biology Laboratory (2) F,S,Su Prereq.: credit in BIOL 1001 and credit or registration in BIOL 1002; 1 hr. lecture; 3 hrs. lab. Credit not allowed for students who have had BIOL 1207, 1208 or 1209. Basic principles of biology including cell biology, genetics, ecology, evolution, diversity, and systems physiology.

★ **1011 Microorganisms and Man (3)** Credit will not be given for both this course and BIOL 2051. Not open to biological science majors. Microorganisms and their relationship to people; microbial form and function; role of bacteria in health and disease, ecology, and industry from food production to genetic engineering.

1012 Microorganisms and Man Laboratory (1) Prereq.: credit or registration in BIOL 1011. 3 hrs. lab. Credit will not be given for both this course and BIOL 2051. Not open to biological science majors. Basic laboratory skills for handling and observing microorganisms; demonstration of features of microorganisms discussed in BIOL 1011.

★ **1201 Biology for Science Majors I (3)** Prereq.: minimum ACT composite of 23 or "C" or better in CHEM 1201.

Primarily for students in science, agriculture, or education. Credit will not be given for both this course and BIOL 1001. General concepts in cellular structure, cellular metabolism, cellular communication, and genetics.

★ **1202 Biology for Science Majors II (3)** Prereq.: BIOL 1201. Primarily for students in science, agriculture, or education. Credit will not be given for this course and BIOL 1002. General concepts in evolution, ecology, and the function of organisms.

1207 HONORS: Biology Laboratory for Science Majors (1) F Prereq.: credit or registration in BIOL 1201 and admission to the Honors College. Credit will not be given for this course and BIOL 1005 or 1208. 3 hrs. lab. Topics include biochemistry, enzymes, cell structures, osmosis, cellular respiration, photosynthesis, cell division, genetics, and ecology.

1208 Biology Laboratory for Science Majors I (1) Prereq.: credit or registration in BIOL 1201. Credit will not be given for this course and BIOL 1005 or 1207. 3 hrs. lab. Primarily for students majoring in science, agriculture, or education.

1209 Biology Laboratory for Science Majors II (1) Prereq.: credit in BIOL 1208, credit or registration in BIOL 1202. Credit will not be given for this course and BIOL 1005. Primarily for students majoring in science, agriculture, or education.

★ **1503 HONORS: Biology for Science Majors II (4)** Prereq.: BIOL 1201 and 1207 or 1208 and consent of instructor. 3 hrs. lecture; 3 hrs. lab. Credit will not be given for this course and BIOL 1002 and 1005 or 1202 and 1209. Similar content as BIOL 1202 and 1209 with special emphasis on selected topics for qualified students.

2051 General Microbiology (4) F,S,Su Prereq.: BIOL 1202, 1209 and CHEM 1202. 3 hrs. lecture; 3 hrs. lab. Credit will not be given for both this course and BIOL 1011 or 1012.

Structure and function of microbial cells and their relationship to people and the environment.

2083 The Elements of Biochemistry (3) F,S Prereq.: CHEM 2060. Not for degree credit for students in the College of Basic Sciences. Nature and physiological uses of natural substances of interest to education, agriculture, and home economics majors.

2153 Principles of Genetics (4) F,S Prereq.: BIOL 1202, 1209, and enrollment or credit in CHEM 1202. Fundamental laws of heredity.

2160 Human Physiology (3) F,S,Su BIOL 1001 or 1201 recommended. May not be taken for credit by a student majoring in a biological science or premedical students. Elements of human physiology; controls and functions of the

various organ systems.

2280 Introduction to Research in Biological Sciences (1) Prereq.: 6 sem. hrs. of biological sciences and consent of the instructor. Pass-fail grading. Introduction to research with faculty in the Department of Biological Sciences.

2500 Natural History of the Vertebrates (4) Prereq.: BIOL 1201, 1208, and 4 hrs. of additional biological sciences with laboratory. 2 hrs. lecture; 6 hrs. lab/field work. Diversity, ecology, and evolution of the fishes, amphibians, reptiles, birds, and mammals; emphasis on Louisiana species.

2510 Introduction to Marine Zoology (4) Su Prereq.: BIOL 1202 and 1209; permission of department. 12 hrs. lab. Five weeks at Louisiana Universities' Marine Consortium (LUMCON). For degrees in biological science this counts only as an approved elective. Field and laboratory survey of marine animals, particularly those of the Louisiana Gulf Coast; classification, morphology, physiology, and ecology.

2900 Careers in Life Sciences (1) Prereq.: credit or registration in BIOL 1202, open to Biological Sciences, Biochemistry and Microbiology majors only. A one hour writing workshop outside class is required. Career opportunities in all fields of the biological sciences.

3001 Science Teaching in Secondary School I: The Learner (1) Prereq.: registration in EDCI 3001 or equivalent and credit in either BIOL 2051 or 2153, or CHEM 2001 or 2261, or PHYS 2203 or 2221. Also offered as CHEM 3001 and PHYS 3001. Monitored and evaluated science tutoring experiences in a local middle school or high school under the guidance of the course instructor and a mentoring teacher.

3002 Science Teaching in Secondary School II: Technology in Science Education (1) Prereq.: registration in EDCI 3002 or equivalent and credit in EDCI 3001 and BIOL 3001, or CHEM 3001, or PHYS 3001. Also offered as CHEM 3002 and PHYS 3002. Introduction to the integration of technology in demonstrations, and small and large group classroom activities, with a focus on inquiry-based approaches.

3040 Evolution (3) Prereq.: BIOL 2153. EXST 2201 recommended. Principles and processes in evolutionary biology.

3041 Evolution Laboratory (1) Prereq.: credit or concurrent enrollment in BIOL 3040. Lab to accompany lecture BIOL 3040.

3060 Introductory Plant Physiology (4) Prereq.: BIOL 1202 and 1209; CHEM 2060, 2261, or 2461. 3 hrs. lecture; 3 hrs. lab. Also offered as PLHL 3060. Life processes of plants emphasizing growth and development, metabolism, transport, and water relations.

3090 Cell Biology (3) Prereq.: BIOL 2153 and CHEM 2262. Molecular description of cell structure and function.

3116 Microbiology Laboratory (3) F,S Prereq.: BIOL 2051. 6 hrs. lab. Laboratory course illustrating experimental microbiology in ecology, taxonomy, physiology, and genetics.

3152 Comparative Anatomy of the Vertebrates (4) F,S Prereq.: BIOL 2153. BIOL 3090 recommended. 2 hrs. lecture; 6 hrs. lab. Macroevolution, biomechanics and functional anatomy of vertebrates; lab dissection of selected vertebrates.

3156 Developmental Zoology (4) Prereq.: BIOL 3090. 3 hrs. lecture; 3 hrs. lab. Combination of classical descriptive embryology and contemporary experimental theories focusing on the mechanisms of development in vertebrates and invertebrates.

3900 Undergraduate Seminar in Biological Sciences (1) Prereq.: junior standing and consent of the instructor. Oral presentation of independent laboratory or library research on selected topics in biological sciences.

3999 Undergraduate Research in Biological Sciences (1-3) F,S,Su Prereq.: Permission of department. May be taken for a max. of 6 sem. hrs. of credit. Individual research on problems in the biological sciences.

4001 Physical Chemistry (3) S Prereq.: CHEM 2262, PHYS 2002, and MATH 1552. Theoretical chemistry; emphasis on solutions, equilibria, and topics of interest to students in biological sciences.

4002 Insect Biology (3) See ENTM 4002.

4003 Science Teaching in Secondary School III: Instructional Strategies in the Sciences (1) Prereq.: credit in EDCI 2500 and BASC 2011. Also offered as CHEM 4003. Model whole-classroom instructional strategies that depart from the lecture style (cooperative learning or open-ended problem exploration); design and presentation of a science lesson using such a strategy; laboratory safety program management.

4004 Seminar in Teaching Secondary School Science (3) Prereq.: credit or registration in EDCI 4004 or equivalent, credit or registration in EDCI 4005 or equivalent, and credit in BIOL 4003, or CHEM 4003, or PHYS 4003. Also offered as CHEM 4004 and PHYS 4004.

- 4005 Science Research Methods (3)** Prereq.: credit for EDCI 2500 and credit or registration in EDCI 3550. Also offered as CHEM 4005 and PHYS 4005; permission of the department. Not for graduate credit. This course focuses on the tools that scientists use to solve scientific problems, including use of experiments to answer scientific questions, experimental design, use of statistics, and mathematical modeling of scientific phenomena. This course includes the oral presentation of scientific work and a minimum of 10 hours of work in area middle and high schools.
- 4015 Conservation Biology (4)** Prereq.: 11 sem. hrs. biological sciences; genetics recommended. See ENTM 4015.
- 4016 Introduction to Insect Physiology (3)** Prereq.: 12 hrs. of entomology or biological sciences; 1 yr. of organic chemistry or biochemistry. 2 hrs. lecture; 3 hrs. lab. Also offered as ENTM 4016.
- 4017 Laboratory in Conservation Biology (2)** 2 hrs laboratory. Coreq.: BIOL/ENTM 4015 or equivalent. Same as ENTM 4017. Laboratory to accompany BIOL/ENTM 4015. Practical application of principles of conservation biology, field study of major threats to an importance of biological diversity; human responsibilities as global land stewards. Field study will be conducted as exercises to learn how to ask scientific questions, formulate a study, collect data, analyze data, and write scientific papers. Two all-day field trips on Saturdays.
- 4020 Taxonomy and Ecology of Wetland Plants (4)** Prereq.: BIOL 1202 and 1209. 3 hrs. lecture; 3 hrs. lab; extended field trips. Also offered as RNR 4020. Field service fee. Taxonomy, ecology, distribution, and economic significance of wetland plants in Louisiana.
- 4024 Plant Anatomy (4)** Prereq.: BIOL 1202 and 1209. 2 hrs. lecture; 4 hrs. lab. Structure and development of vascular plants; emphasis on seed plants.
- 4034 Morphology of Vascular Plants (4)** Prereq.: BIOL 1202 and 1209. 2 hrs. lecture; 4 hrs. lab. Field service fee. Phylogenetic survey of plant form and development among vascular plants from ferns and related forms through gymnosperms and angiosperms.
- 4041 Plant Taxonomy (4)** Prereq.: BIOL 1202 and 1209. 2 hrs. lecture; 4 hrs. lab. Principles of identification, classification, and nomenclature; their application to select groups of vascular plants.
- 4042 Projects in Plant Taxonomy (3)** Prereq.: BIOL 4041 or equivalent. 1 hr. conference; 4 hrs. lab. Individual instruction; student responsible for selecting a plant taxonomy project related to interests.
- 4052 Phycology (4)** Prereq.: BIOL 1202 and 1209. 2 hrs. lecture; 4 hrs. lab. Also offered as OCS 4052. Field service fee. Freshwater and marine algae, including morphology, biology, ecological role, and economic significance.
- 4053 Fungal Biology (3)** Prereq.: BIOL 1202. Description of fungal-human interactions, including ecosystem function, research models, medicine, agriculture, forestry, industry, and culture.
- 4054 Introductory Mycology (4)** Prereq.: BIOL 1202 and 1209 or equivalent. 3 hrs. lecture; 3 hrs. lab. Same as PLHL 4054. Developmental morphology, taxonomy, and adaptive strategies of fungi; interactions of fungi with plants and animals.
- 4055 Flora of Louisiana (4)** Prereq.: BIOL 1202 and 1209. 2 hrs. lecture; 4 hrs. lab. Two Saturday field trips. Major plant groups and communities of Louisiana and the Gulf region; field and laboratory identification, natural history, ecology, environmental issues relating to natural vegetation, and conservation of natural areas.
- 4056 Lichenology and Bryology (4)** Prereq.: BIOL 1202 and 1209. 2 hrs. lecture; 4 hrs. lab. Field service fee. Lichen and bryophyte morphology, physiology, ecology, and systematics; practice in identification.
- 4084 Geomicrobiology (3)** Prereq.: GEOL 3032 or BIOL 2051 or consent of instructor. See GEOL 4084.
- 4087 Basic Biochemistry (4)** F,S,Su Prereq.: BIOL 2153 and CHEM 2262 or 2462. Credit will not be given for BIOL 4087 and either BIOL 4093 or 4094. Cellular macromolecules; production and utilization of energy by the cell; major metabolic pathways and their control; molecular biology.
- 4090 Marine and Environmental Microbiology (3)** See OCS 4090.
- 4093 General Biochemistry I (3)** F Prereq.: BIOL 2153 and CHEM 2262 or 2462. Credit will not be given for BIOL 4087 and either 4093 or 4094. Structure and function of proteins, nucleic acids, lipids, and carbohydrates; enzymology; respiration.
- 4094 General Biochemistry II (3)** S Prereq.: BIOL 4093. Credit will not be given for both BIOL 4087 or either 4093 and 4094. Metabolic pathways; nucleic acid structure; flow of genetic information; regulation of gene expression; recombinant DNA.
- 4104 Histology (4)** Prereq.: BIOL 3090 or 3156, permission of department. 2 hrs. lecture; 6 hrs. lab. Morphological basis of function in mammalian tissues and organs.
- 4105 Parasitology (3)** F,S Prereq.: BIOL 2153. Biology of animal parasites; emphasis on important human parasites.
- 4106 Parasitology Laboratory (1)** F,S Prereq.: credit or concurrent enrollment in BIOL 4105. 3 hrs. lab. Field and laboratory investigations in parasitology.
- 4110 Introductory Microbial Physiology (3)** F,S Prereq.: BIOL 2051 and CHEM 2261 or 2461. Concepts of bacterial nutrition, metabolism, adaptation, and genetics, as related to growth and environment.
- 4111 Microbial Physiology Laboratory (2)** Prereq.: credit or registration in BIOL 4110. 6 hrs. lab. Laboratory techniques used to study growth, metabolism, and cellular control of microorganisms.
- 4123 Immunology (3)** F Prereq.: BIOL 2051; BIOL 3090 recommended. Molecular and cellular basis of innate and cell-mediated immunity.
- 4124 Microbial Pathogens (3)** F Prereq.: BIOL 2051 and either 3090 or 4123. Survey of pathogenic organisms including bacteria, viruses, fungi, and parasites; host responses to pathogens.
- 4125 Prokaryotic Diversity (3)** Prereq.: BIOL 2051. Biology of bacteria and archaea; evolution, diversity assessment, systematics, ecology; emphasis on molecular approaches.
- 4126 Methods in Microbial Diversity (4)** S Prereq.: BIOL 4125 and consent of instructor. 1 hr. lecture; 6 hrs. lab. Classical and molecular methods used to study microbial diversity.
- 4127 Immunopathogenesis Laboratory (3)** S Prereq.: BIOL 4123 and concurrent enrollment or credit in BIOL 4124. Laboratory methods of immunology and microbial pathogenic biology.
- 4132 Eukaryotic Molecular Genetics (3)** Prereq.: BIOL 2153, and 4087 or 4093. Molecular genetics, primarily in higher eukaryotes; gene structure and packaging in chromosomes; gene transcription and mRNA processing; translation; gene regulation; genetics in development; genetics of cancer; immunogenetics; genetic engineering in eukaryotes.
- 4141 Mammalogy (4)** F Prereq.: BIOL 1202 and 1209; 2 hrs. lecture; 6 hrs. lab. Biology of mammals; origins, adaptive radiations, and ecology.
- 4142 Ornithology (4)** S Prereq.: BIOL 2153 or RNR 4103. 3 hrs. lecture; 3 hrs. lab and field work. Permission of department. Field service fee. Biology of birds; emphasis on ecology, behavior, and evolution.
- 4145 Ichthyology (4)** F Prereq.: BIOL 1202 and 1209. 2 hrs. lecture; 6 hrs. lab and field work. Field service fee. Also offered as RNR 4145. Biology of fishes; evolution, classification, and ecology.
- 4146 Herpetology (4)** S Prereq.: BIOL 1202 and 1209; 2 hrs. lecture; 6 hrs. lab and field work. Field service fee. Taxonomy and natural history of amphibians and reptiles.
- 4147 Biology of Eukaryotic Microorganisms (4)** Prereq.: BIOL 2051. 2 hrs. lecture; 4 hrs. lab. Molecular biology, physiology, genetics, morphology, development, and taxonomy of the yeasts, molds, slime molds, algae, and protozoa.
- 4154 Invertebrate Zoology (4)** Prereq.: BIOL 2153. 3 hrs. lecture; 3 hrs. lab. Field service fee. Biology of the invertebrates; phylogeny, functional morphology.
- 4155 Environmental Physiology (3)** Prereq.: BIOL 2153. Physiological adaptations of animals to physical and chemical parameters of the environment.
- 4156 Environmental Physiology Laboratory (1)** Prereq.: credit or concurrent enrollment in BIOL 4155 or equivalent. 3 hrs. lab. Laboratory exercises in environmental physiology.
- 4157 Cellular Physiology (4)** Prereq.: BIOL 2153 and CHEM 2262. 3 hrs. lecture; 3 hrs. lab. Physiological systems in cells and tissues.
- 4158 Endocrinology (3)** F Prereq.: BIOL 3090 or 4087 or 4093. Physiology of neural and hormonal regulation in vertebrates.
- 4159 Human Disease (3)** Prereq.: BIOL 3090 or 4087 or 4093. Not for graduate credit. Molecular cell biology of the pathogens, etiology and treatment of various human diseases.
- 4160 Vertebrate Physiology (3)** F,S Prereq.: BIOL 3090 or 4087 or 4093, and CHEM 2262 or 2462. Principles of vertebrate systems physiology; emphasis on mammalian systems.
- 4161 Vertebrate Physiology Laboratory (1)** F,S Prereq.: credit or concurrent enrollment in BIOL 4160 or equivalent and EXST 2201. 3 hrs. lab. Laboratory exercises in systems physiology.
- 4162 Food Microbiology (4)** See FDSC 4162.
- 4163 Industrial Microbiology (4)** Prereq.: BIOL 4110; or equivalent. 2 hrs. lecture; 4 hrs. lab. Also offered as FDSC 4163. Microbes used in industrial processes such as production of chemicals, antibiotics, and vitamins.
- 4165 Environmental Adaptations (3)** Prereq.: BIOL 2153. Biochemical and physiological mechanisms adapting organisms to environmental factors; emphasis on the evolutionary biochemical adaptations permitting organisms to inhabit diverse environments.
- 4170 Comparative Animal Physiology (3)** Prereq.: BIOL 3090 or 4087 or 4093. Physiological principles at the molecular, cellular, and systems levels are evaluated across many animal phyla. The ways in which diverse organisms perform similar functions are explained, revealing unifying themes of physiological response and adaptation only illuminated with a comparative perspective.
- 4172 Plant Microtechnique (3)** Prereq.: BIOL 4024 or equivalent. 1 hr. lecture; 4 hrs. lab. Technique and practice in making permanent slides.
- 4177 Neurobiology (3)** Prereq.: BIOL 3090 or 4160, and CHEM 2262 or 2462. Principles of organization and function in nervous systems; molecular basis of behavior.
- 4190 Introductory Virology (3)** V Prereq.: BIOL 2051. Viruses and their host cells; biochemistry and molecular biology of viral infections.
- 4194 History of Biology (2)** Prereq.: senior standing or consent of instructor.
- 4200 Microbial Morphogenesis (3)** Prereq.: BIOL 2051 and 2153. Cellular morphogenesis in microorganisms and its control by differential gene expression; physiological changes during microbial differentiation; adaptive roles and practical applications.
- 4210 Biological Modeling and Data Analysis (3)** Prereq.: MATH 1550. 8 sem. hrs. of introductory biology. 2 hrs. lecture; 2 hrs. lab. Modeling of biological systems; design and analysis of biological experiments; presentation of data.
- 4246 Microbial Genetics (3)** Prereq.: BIOL 2051 and 2153. BIOL 4087 or 4093 recommended. Microbial genetic principles: mutation, conjugation, transformation, recombination, transduction, gene expression; molecular biology of bacteriophage and plasmids; recombinant DNA technology.
- 4253 Principles of Ecology (3)** F,S Prereq.: BIOL 1202, 1209 and MATH 1552 or EXST 2201. Fundamental ecological principles governing the structure and function of populations, communities, and ecosystems; comparative habitat ecology.
- 4254 Principles of Ecology Laboratory (1)** F,S Prereq.: credit or registration in BIOL 4253. 3 hrs. lab. Field service fee. Laboratory exercises in ecology.
- 4256 Microbial Ecology and Nutrient Cycling in Soils (4)** See AGRO/EMS 4056.
- 4261 Microbiology of Water, Sewage, and Industrial Wastes (4)** Prereq.: BIOL 4110. 2 hrs. lecture; 4 hrs. lab.
- 4262 Marine Communities (3)** Prereq.: BIOL 2153. Marine biology; ecology of benthic, planktonic, nektonic, estuarine, oceanic, coral, and mangrove communities; emphasis on Louisiana's coastal environments.
- 4263 Marine Communities Laboratory (1)** Prereq.: credit or concurrent enrollment in BIOL 4262 or equivalent. 3 hrs. lab. Field service fee. Laboratory experiences in marine communities.
- 4270 Animal Behavior (4)** S Prereq.: BIOL 2153. 3 hrs. lecture; 3 hrs. lab. Students are responsible for personal expenses associated with mandatory field trips. Introduction to the field of animal behavior with emphasis on how research in this area is performed; topics include physical, environmental, and physiological effects on behavior as well as possible evolutionary causes of present-day behaviors.
- 4299 Genetics of the Evolutionary Process (4)** Prereq.: BIOL 2153 or equivalent. 3 hrs. lecture; 3 hrs. discussion/lab. Principles of microevolution; emphasis on genetic and ecological mechanisms relevant to process of evolution.
- 4308 Plants in Coastal Environments (3)** See OCS 4308.
- 4385 Biochemistry Laboratory (3)** F,S Prereq.: credit or registration in BIOL 4087 or 4093. 1 hr. lecture; 6 hrs. lab. Techniques including chemistry of amino acids and proteins; purification, immunochemistry, kinetics of enzymes; protein biosynthesis; nucleic acid chemistry; properties and restriction mapping of plasmids and recombinant DNA; spectrophotometry, chromatography, electrophoresis, centrifugation, and radioisotope labeling.
- 4400 Molecular Genetics Laboratory (3)** S Prereq.: BIOL 2153 and 6 hrs. of biological sciences at the 4000 level or BIOL 4246 and 3 hrs. of biological sciences at the 4000 level. 1 hr. lecture; 6 hrs. lab. Current techniques used to genetically engineer microorganisms, study gene expression and DNA modification, and identify organisms by specific genetic alleles; computer analysis of DNA and protein sequences.
- 4444 Seed Physiology (3)** S See PLHL 4444.
- 4450 Molecular Regulation of Cell Function (3)** F Prereq.: BIOL 4087 or 4093, CHEM 2262 or 2462. BIOL 3090 recommended. Molecular organization of eukaryotic cells; gene structure and function; molecular regulation of signal transduction and cell cycle.
- 4596 Biophysics of Macromolecules (3)** Prereq.: BIOL 4087 or 4093, and BIOL 4001 or credit or registration in CHEM 3492. Theory and application of physical

techniques to the study of biological macromolecules; spectroscopy (UV-VIS absorption and fluorescence, circular dichroism, IR, NMR, X-ray diffraction); helix-coil theory; theories of ligand binding.

4600 Topics in Marine Zoology (2-6) Su Prereq.: 16 hrs. of biology or zoology including one laboratory course numbered above 3000. See also RNR 4600. May be taken for a max. of 9 sem. hrs. of credit when topics vary. Courses to be offered vary from year to year; additional information available from department. Intensive field study of a special topic in marine zoology at the Louisiana Universities' Marine Consortium field stations.

4653 Marine Phycology (4) Su Prereq.: 12 hrs. in biological science, including some plant biology. Four weeks at Gulf Coast Research Laboratory, Ocean Springs, Mississippi.

4753 Human Molecular Genetics (3) Prereq.: BIOL 2153 and 4087 or 4093. Principles of human genetics, comparative genomics, forensic and molecular genetics.

4800 Selected Topics in Biological Sciences (2-4) Prereq.: 16 sem. hrs. of biological sciences and permission of department. May be taken for a max. of 6 sem. hrs. of credit when topics vary.

6055 Flora of Louisiana for Teachers (4) Prereq.: one year of biological sciences. 2 hrs. lecture; 4 hrs. lab. Student projects are required. Identification and natural history of native vegetation and plant communities of Louisiana.

6147 Selected Topics in Life Science (1-3) Prereq.: BIOL 1001, 1002, 1005; or equivalent. May be taken for a max. of 6 sem. hrs. credit when topics vary. Specific areas of biological sciences; topics offered determined by recent advances in the field, needs of students, and availability of appropriate faculty.

7001 Tropical Ecology (3) Prereq.: BIOL 4253 or equivalent. Ecology, natural history, and biodiversity of tropical organisms, communities, and ecosystems, including plants, fungi, insects, reptiles, amphibians, birds, mammals, and fishes of tropical rain forests and tropical savannas.

7010 Plant Molecular Biology (3) F Prereq.: BIOL 3060, 4093, and 4094 or equivalent. See PLHL 7010.

7022 Marine Microbial Ecology (3) See OCS 7020.

7025 Advanced Plant Anatomy (3) Prereq.: BIOL 4024 or equivalent. Analysis of meristematic activity and growth patterns in vascular plants; basis and mechanisms of differentiation and experimental studies of normal growth processes.

7043 Advanced Plant Taxonomy (4) Prereq.: BIOL 2153 or AGRI 2072, and BIOL 4041; or equivalent. 3 hrs. lecture; 3 hrs. lab. Fundamentals of natural variation and evolution; taxonomic features of plant variation.

7044 Agrostology (3) Prereq.: BIOL 4041 or equivalent. 1 hr. lecture; 4 hrs. lab. Morphology, classification, identification, and economic importance of grasses and grasslike plants.

7061 Plant Growth and Development (3) See PLHL 7061.

7063 Plant Metabolism (3) See PLHL 7063.

7065 Transport Processes in Plants (3) Prereq.: BIOL 3060. Also offered as PLHL 7065. Principles governing the transport of water, mineral nutrients, organic compounds and gases in plants; cellular through whole-plant levels of organization and physiological response.

7067 Selected Topics in Plant Physiology (2) Prereq.: consent of instructor. May be repeated for credit. Same as PLHL 7067. Mineral nutrition, metabolism, growth and development, and herbicides.

7068 Current Literature in Plant Physiology (1) See PLHL 7068.

7080 Population Ecology (3) Prereq.: BIOL 4253 or equivalent. Also offered as ENTM 7080. Advanced topics emphasizing animals in population growth and regulation; life histories; foraging behavior; agonism and territoriality; and group behavior.

7083 Community Ecology (3) Prereq.: BIOL 4253 or equivalent. Ecological processes of communities; predation, competition, mutualism, disturbance, succession, island biogeography, and diversity.

7093 Plant Population Biology (3) Prereq.: BIOL 4253 or equivalent. Plant population dynamics, reproductive systems, life histories, competition, niche theory, and interactions between plants and predators, pathogens, and symbionts.

7110 Molecular Evolution (3) Prereq.: BIOL 3040 or equivalent. Evolution of genes and genomes; nucleotide substitution rates; positive selection; gene duplication and conversion; transposable elements; evolution of genome size.

7111 Systematic Biology (4) Prereq.: 8 sem. hrs. of 4000-level biological science courses or equivalent; introductory statistics recommended. 3 hrs. lecture; 2 hrs. lab. Theoretical and empirical aspects of systematics and evolutionary biology.

7120 Marine Ecology (3) Prereq.: consent of instructor. 2 hrs. lecture; 3 hrs. lab. and field work. Also offered as OCS 7317. Physical, chemical, and biological environmental factors affecting distribution of marine fauna; communities representative of each of the ecological subdivisions of the

world's oceans treated with respect to species composition, food webs, and seasonal changes; human impact on the marine environment.

7152 Advanced Vertebrate Anatomy (4) Prereq.: BIOL 3152. 2 hrs. lecture; 6 hrs. lab.

7155 Energy Transducing Membrane Proteins (3) Prereq.: BIOL 4110 and 4087 or 4093, or equivalent.

Structure and function of energy transducing membrane proteins including bacteriorhodopsin, ATP synthase, cytochrome oxidase, cytochrome b/c₁ complexes, the bacterial reaction center, photosystem I and II and antennae pigment protein complexes.

7156 Experimental Embryology (4) Prereq.: BIOL 3156 or equivalent. 2 hrs. lecture; 6 hrs. lab. Field service fee. Classic and contemporary theory, techniques, experiments, and independent investigations concerning vertebrate and invertebrate development.

7161 Higher Bacteria (3) V Prereq.: BIOL 4110 or equivalent. Microbial systematics and ecology; emphasis on morphology and physiology of the higher bacteria.

7162 Molecular Biology of Microorganisms (3) Prereq.: BIOL 4246, and either BIOL 4110 or 4094; or equivalent.

Synthesis, activity, and interactions of various molecular components of microbial cells; macromolecules and their relationship to cellular function and heredity.

7220 Biochemistry and Toxicology of Metals (3) S Prereq.: BIOL 4093, 4094; CHEM 2262. See ENVS 7220.

7253 Molecular Population Genetics (4) Prereq.: BIOL 2153 or equivalent. 3 hrs. lecture; 3 hrs. discussion/lab. Molecular genetic variation in natural populations; effects of selection, inbreeding, random drift, migration, and mutation on DNA and protein polymorphisms; emphasis in lab on computer-assisted manipulation and analysis of molecular data.

7260 Advanced Genetics (3) Prereq.: permission of instructor. The use of mutations and contemporary genetic approaches for genetic analysis of function in humans and research organisms.

7280 Nucleic Acids (3) V Prereq.: BIOL 4094 or equivalent. Chemistry and biochemistry of nucleic acids; structure, expression, and regulation of genes in prokaryotic and eukaryotic organisms.

7284 Proteins (3) V Prereq.: CHEM 4491 or BIOL 4001; and BIOL 4093 or equivalent. Conformations of fibrous and globular proteins; their interactions with small and large molecules.

7285 Advanced Enzymology (3) V Prereq.: one semester of physical chemistry and credit or registration in BIOL 4094. Principles involving action of enzymes on a molecular level; includes kinetics, inhibition, Ph effects, active site, coenzymes, reaction mechanism, and protein structure of enzymes.

7286 Seminar (1) F,S May be repeated for a max. of 6 sem. hrs. of credit. Reports on topics of current interest in biological sciences.

7288 Lipids and Membranes (3) V Prereq.: BIOL 4094. Chemistry and biochemistry of lipids and membranes; analytical methods for lipids; biosynthesis of complex lipids; organization and function of biological membranes.

7289 Biochemistry of Viruses (3) V Prereq.: BIOL 4094 or equivalent. Also offered as PBS 7410. Biochemistry and molecular biology of representative bacterial, animal, and plant viruses; virus attachment to and penetration of host cells; replication, transcription, and translation of viral genes; virion morphogenesis and assembly; virus-induced host cell modifications; emphasis on structure-function relationships.

7290 Complex Carbohydrates (3) V Prereq.: BIOL 4094. Chemistry of carbohydrates including stereochemistry, reactions, derivatization, and analysis; biosynthesis and functions of complex carbohydrates; structure and function of complex carbohydrates including polysaccharides, glycoproteins, and glycolipids; immunology and receptorology.

7622 Fundamentals of Carcinogenesis (3) S-E Prereq.: CBS 7603 or consent of instructor. Same as CBS 7622 and ENVS 7622.

7626 Toxicology IV: Genetic Toxicology (3) S-E See ENVS 7626.

7648 Museum Field Expedition (6) Prereq.: consent of instructor. One semester in the field under direction of the Museum of Natural Science staff.

7800 Special Topics in Biological Sciences (2-4) Prereq.: consent of instructor. May be taken for a max. of 12 sem. hrs. when topics vary. Specialized topics of current interest in the biological sciences.

7901 Departmental Seminar in Biological Sciences (1) May be repeated for a max. of 6 sem. hrs. of credit. Reports on specialized subjects of current interest in the biological sciences.

7902 Departmental Seminar in Biochemistry (1) May be repeated for a max. of 6 sem. hrs. of credit. Reports on specialized subjects of current interest in biochemistry.

7921 Research Presentations in the Biological Sciences (1) May be repeated for credit. Pass/fail grading.

Presentations of individual research projects in the biological sciences.

7946 Seminar: Current Topics in Molecular Evolution (1) Prereq.: course in evolution, genetics, BIOL 4087 or equivalent. Also offered as ENTM 7946. May be taken for max. of 6 hrs. credit when topics vary.

7978 Tropical Agricultural Ecology (1-8) Intensive eight-week field course in Costa Rica conducted by the Organization for Tropical Studies; includes visits to various research sites to study the application of ecological principles to tropical agriculture.

7979 Tropical Biology: An Ecological Approach (1-8) Eight-week field course at research sites in Costa Rica; conducted by Organization for Tropical Studies; also offered as ENTM 7979. Complexities of tropical plants and animals and their interactions.

7990 Independent Research in Biological Sciences (2-8) Prereq.: consent of instructor. May be repeated for a max. of 9 sem. hrs. credit. Directed research under the guidance of a graduate faculty member.

7995 Independent Readings in Biological Sciences (1-3) Prereq.: consent of instructor. May be taken for a max. of 9 sem. hrs. of credit. Directed individual readings under the guidance of a graduate faculty member.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8903 Microbiology for Teachers (4) Su 2 hrs. lecture; 4 hrs. lab. Relation of microorganisms to everyday living; how knowledge of these forms is used in effective teaching of high school science and home economics.

8904 Methods of Research in Microbiology (3) 1 hr. conference; 6 hrs. lab. May be taken for a max. of 6 hrs. of credit when topics vary. Pass-fail grading.

8910 Research Participation (3) Su For high school science teachers.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

BUSINESS ADMINISTRATION • BADM

1000 Introduction to the Study of Business (1) F

Enrollment in this course is limited to students admitted to the E. J. Ourso College of Business. Introduction to the E. J. Ourso College of Business policies and resources including academic advising, majors, career alternatives, college technology, and student organizations.

1001 Introduction to Business (3) May not be taken by students in the E. J. Ourso College of Business. Operation of the business firm; function of the businessman; nature of economic system and private enterprise.

4000 Innovation and Creativity (3) Prereq.: ACCT 2001, 2101; ECON 2000, 2010; ISDS 1100; MKT 3401. Role of creativity and innovation in product, service, or idea generation that may eventually lead to business formation and commercialization; barriers to creativity and innovation; alternative problem-solving approaches.

4020 Internship in Entrepreneurship (3) Prereq.: approval of department; May be repeated for a max. of 6 sem. hrs. when topics vary. Gaining first-hand knowledge of the business start-up process; practical hands-on experience in business-plan formation.

4030 Independent Study in Entrepreneurship (3) Prereq.: approval of department. May be repeated for a max. of 6 sem. hrs. credit when topics vary. Detailed study of a specific aspect of entrepreneurship.

4040 Entrepreneurship in China (3) Characteristics of Chinese: entrepreneurs, new venture financing, innovation and creativity, franchising, family businesses, technological entrepreneurs, technological intrapreneurs, entrepreneurship education, and incubators.

7000 Internship in Business Administration (3) Prereq.: prior approval of MBA director. Open only to full-time MBA students. May be taken once for credit. 10 hrs. of learning experience (fall/spring); 20 hrs. (summer). General supervision by a faculty member; direct supervision by a business professional. Pass-fail grading based on a written evaluation by the professional supervisor, a written report by the student, and the faculty member's evaluation.

7010 The Practice of Business (1) F,S Open only to students in the MBA program. Taken each semester of the MBA program. Course must be successfully completed four times prior to graduation. Exposure to the practice of business; a series of visits to area businesses, in conjunction with classroom experiences, to learn how managers and operations specialists in various industries cultivate, shape, and exploit their companies' resources to meet current and future market needs.

7020 Managerial Statistics (3) Open only to students in the MBA program. An introduction to statistical thinking and overview of statistical methods used to analyze and interpret data, draw inferences, and make decisions; topics include descriptive statistics, probability, sampling and sampling distributions, estimation, confidence intervals,

hypothesis testing, linear regression, forecasting, and control charting; emphasis on how to use spreadsheets to analyze data and how to interpret the results.

7030 Understanding Financial Information (3) Composition of financial statements; information processing and reporting for the purpose of understanding accounting information; legal and ethical obligations of the accounting profession.

7050 Information Systems (3) Prereq.: ISDS 1100 or equivalent. Open only to students in the MBA program. Contemporary topics in information systems; a survey of information system analysis and design; introduction to business data communication, database management systems, and knowledge based systems; enterprise-wide systems and information systems control.

7060 Elements of Cost Management (3) Prereq.: BADM 7030. Open only to students in the MBA program. Understanding and applying cost management practices used in business today; development of costing and budgeting systems used for cost management; applications of analysis used in management decision making and control; cost-profit-volume analysis; analysis of variances between budgeted and actual cost; methods of evaluating responsibility centers based upon profitability measures.

7070 Understanding Behavior in Organizations (3) F Open only to students in the MBA program. Broad understanding of factors influencing the behavior of individuals in organizations; topics include the individual and contextual determinants of behavior and the tools managers use to influence and direct employee behavior; emphasis on managerial applications of behavioral science theories.

7080 Macroeconomic Analysis & Issues (3) Open only to students in the MBA program. Examining forces determining the magnitude of such variables as the aggregate volume of an economy's output, the volume of resource employment, the size of national income, and the general price level; international variables of trade and financial flows; international trade agreements and other foreign variables that affect exchange rates, domestic income, output, prices, and employment.

7090 Financial Management (3) Prereq.: BADM 7030. Investment and financing decisions within the firm; role of capital markets; usefulness and limitations of financial data; cash flow projections; working capital management.

7100 Marketing Administration (3) Marketing decision making and planning, including marketing research, product development and management, distribution, demand estimation, market structure analysis, pricing, promotion, advertising, and direct marketing.

7120 Operations Management (3) Prereq.: BADM 7020. Open only to students in the MBA program. Major problems and decision processes of operations management; operations strategy; process and capacity planning; facilities planning; aggregate planning; materials planning; quality planning.

7140 Legal Environment of Business (3) Open only to students in the MBA program. The structure of the legal environment of business; sources of law affecting business; constitutional issues in the legal environment of business; contracts and sales; torts; products liability; corporations; securities; bankruptcy; antitrust; discrimination; labor relations; environmental law; criminal law; its impact negotiation strategies; associated ethical and international issues.

7160 Negotiation, Persuasion, and Influence (3) F,S,Su Experiential-based course designed to provide managers with the basic concepts and techniques necessary for effective negotiation and conflict resolution in a variety of business contexts.

7170 Understanding International Management Challenges (3) F Open only to students in the MBA program. Theories and management of international operations; development of environmental, operational, strategic, and decision making perspectives.

7190 Managing Sources of Competitive Advantage (3) S Contemporary approaches to developing and sustaining a competitive advantage in global competition; topics include: competition for competence, strategy and technology, managing home and host government relations, cooperative strategy, strategic alliances, organizational innovation, and managing global strategic change.

7200 Economic Environment of the Firm (3) National and global issues that affect the firm; an introduction to theoretical concepts and policy issues associated mainly with macroeconomics and to a lesser degree with managerial economics.

7210 Understanding Ethical Issues in Business (1.5) S Designed to help future managers confront and successfully manage ethical issues and their economic, legal, political, social, and cultural aspects.

7270 Seminar in New Developments in Business Administration (3)

7310 Systems Audit (3) Introduction to IT audit and security concepts.

7420 Financing and Legal Issues for New Ventures (3)

Insight into financing new ventures and investing in companies in early stages; sourcing, qualifying, and analyzing deals; negotiating, structuring, and pricing; creating value; realizing value through various kinds of exit from the business. Focus on cases and projects taken from actual financing situations; structuring of venture capital; the process of making investments in emerging companies.

7421 Financing New Ventures II (1.5) Prereq.: BADM 7420. Focus on cases and projects taken from actual financing situations; structuring of venture capital; the process of making investments in emerging companies.

7430 Family Business Management (3) Key issues and conflicts facing individuals and families involved in business relationships; family business culture; entrepreneurial influences; career planning; professional support relationship; survival skills as a son or daughter in a family business.

7440 Franchise Development (3) Important factors in starting and managing a new franchise; characteristics of franchiser and franchisee; evaluation of franchising opportunities; legal concerns of franchising; development of appropriate strategies. Development of franchising business plan to include marketing, management, financial projections, and operations manual outline.

7441 Franchise Planning (1.5) Prereq.: BADM 7440. Development of franchising business plan to include marketing, management, financial projections, and operations manual outline.

7460 Special Topics in Entrepreneurship (1.5) May be repeated for a max. of 6 sem. hrs. credit when topics vary. In-depth coverage in special topics such as women-owned business, home-based business, exporting for small business, and team-building for start-ups.

7480 Independent Study in Entrepreneurship (1.5) Prereq.: departmental approval. May be repeated for a max. of 6 sem. hrs. credit when topics vary. Detailed study of a specific aspect of entrepreneurship.

7600 Consulting Field Project (3) Prereq.: Entrepreneurship Specialization or permission of instructor. Strategic focused field based project learning experiences and opportunities in public and private organizations.

Team-based approach to offering consulting advice to organizations with the goal of improving their performance. Emphasis on experiential approaches that provide a participative type of learning about the crucial issues faced by organizations.

7900 Human Factors in Business and Industry: Current Problems (3) May be taken for a max. of 6 hrs. of credit when topics vary. Human factors related to business problems.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Pre-dissertation Research (1-9) May be repeated for credit.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

BUSINESS LAW • BLAW

3200 Introduction to Law (3) Not open to students in the E. J. Ourso College of Business. Credit will not be given for both this course and BLAW 3201 and 4203. Fundamentals of the American legal system; basic principles of the law of contracts, commercial paper, agency, partnerships, corporations, torts, and crimes; case materials used to demonstrate legal analysis and reasoning.

3201 Business Law (3) Credit will not be given for this course and BLAW 3200. Development of Anglo-American common law, the American constitutional system, and the Louisiana civil law system; law of contracts, torts, and agency; business aspects of criminal law; ethical facets of the legal environment; case materials used to demonstrate problem analysis.

3202 Commercial Transactions (3) Prereq.: BLAW 3201. Credit will not be given for this course and BLAW 3200, or 4203. Louisiana law and Federal legislation in the following areas: employment law, workers' compensation, business entities, intellectual property, agency, insurance, sales, donations, leases, security devices, bankruptcy, and commercial paper.

3230 Sports Law (3) Business and legal sports aspects, particularly professional and collegiate level; antitrust laws; labor law and collective bargaining; contract law and player agents; professional franchise location; college athletics and the NCAA; equal opportunities and Title IX; licensing and trademark rights; tort issues.

4203 Commercial Transactions for Accountants (3) Prereq.: BLAW 3201. Credit will not be given for this course and BLAW 3200, 3202. Specifically for accounting majors. Legal concepts underlying sale of goods; commercial paper; security interests, securities regulation, accountants' malpractice, negotiable instruments, and bankruptcy; application of the Uniform Commercial Code and preparation for the CPA examination.

CHEMICAL ENGINEERING • CHE

2160 Computer Technology for Chemical Engineering Systems (1) F,S Prereq.: MATH 1550. Introduction to operating systems, programming techniques, and software packages used in the solution of chemical engineering problems.

2171 Chemical Engineering Fundamentals: Material and Energy Balances (3) F,S Prereq.: MATH 1550 and CHEM 1202. Emphasis on basic principles and concepts used to make chemical engineering calculations; techniques used in these calculations applied to typical industrial problems.

2176 Mathematical Modeling of Chemical Engineering Systems (3) F,S Prereq.: MATH 2090, CHE 2160, and 2171. Basic concepts and techniques in analysis of engineering processes; mathematical description of physical systems and application of modern computers to solution of resulting equations.

3100 Chemical Equilibrium and Kinetics of Environmental Processes (3) F Prereq.: CHEM 2060; EVEG 2000. Not open to chemical engineering majors. Also offered as EVEG 3120. Introductory chemical thermodynamic concepts extended to heterogeneous equilibrium, dilute solutions, surfaces and colloids of significance in environmental engineering processes; chemical reaction kinetics concepts applied to the environment; applications to waste treatment process design; property estimations for elucidating the fate and transport of chemicals in the environment.

3101 Transport Sciences: Momentum Transfer (3) F Prereq.: CHE 2171, MATH 2090, and credit or registration in CE 2450. Fundamentals of momentum transfer; applications to the fluid problems of engineering.

3102 Transport Sciences: Heat and Mass Transfer (4) S Prereq.: CHE 3101 or CE 2200, and MATH 2065 or 2090. Fundamentals of heat and mass transfer; similarities of heat, mass, and momentum transfer and their interrelation; engineering applications.

3104 Engineering Measurements Laboratory (3) F,S Prereq.: CHE 2176 and credit or registration in CHE 3102. 2 hrs. lecture; 3 hrs. lab. Laboratory work to accompany CHE 3101 and 3102.

3171 Process Economics and Optimization (3) S Prereq.: CHE 2176 and credit or registration in CHE 3102 and 3173. Application of optimization principles to the economic design of chemical engineering unit operations.

3172 Chemical Engineering Thermodynamics (3) F Prereq.: CHE 2171. Basic concepts and chemical engineering applications of thermodynamics; emphasis on flow processes and real gas thermodynamics.

3173 Heterogeneous Equilibrium (3) S Prereq.: CHE 3172. Theory of vapor-liquid, liquid-liquid, and solid-liquid equilibrium, including the effects of chemical reactions; application of thermodynamic theory to the correlation of equilibrium data and the prediction of equilibrium compositions.

3249, 3250 Engineering Practice (1-3, 1-3) Su only Prereq.: consent of instructor. Pass-fail grading. A minimum of 6 weeks of full-time employment by an industry participating in the summer program. Selected engineering problems in an industrial environment.

3271, 3272 Senior Projects (1-2, 1-2) Prereq.: consent of department. Pass-fail grading. Experimental and theoretical investigations including library research.

4151 Unit Operations Design (4) F Prereq.: CHE 3102, 3171, and 3173. 3 hrs. lecture; 3 hrs. lab. Unit operations analyzed as applications of chemical engineering fundamentals and transport sciences; use of these principles in design calculations.

4162 Unit Operations Laboratory (3) F,S Prereq.: CHE 3104 and credit or registration in CHE 4151. 1 hr. lecture; 6 hrs. lab. Obtaining and interpreting data needed to solve typical problems in design or operation of chemical engineering equipment.

4172 Process Design (4) S Prereq.: CHE 4151 and 4190. 3 hrs. lecture; 3 hrs. lab. Chemical plant design from initial concept through preliminary estimate; flow diagrams, equipment cost estimation, economic analysis, safety, and environmental issues; computer-aided process design.

4190 Chemical Reaction Engineering (3) F Prereq.: CHE 3102 and 3173; or equivalent. Credit will not be given for both this course and CHE 3100. Basic principles of reactor design; selection of best design alternatives; achievement of optimum reactor operation.

4198 Process Dynamics (3) S Prereq.: CHE 3171 and credit or registration in CHE 4151. Principles and practices of process dynamics and automatic control; mathematical modeling of process dynamics, feedback control, and feed forward control.

4204 Technology of Petroleum Refining (3) F Prereq.: credit or registration in CHE 4151. Catalytic and thermal processes used in petroleum refining; application of

scientific and engineering principles in processes such as catalytic cracking, reforming, coking, alkylation, isomerization, and hydroprocessing; emphasis on applied catalysis and its impact on engineering design.

4205 Technology of Petrochemical Industry (3) Prereq.: CHE 4151. Processes used in the manufacture of petroleum-based chemicals; application of scientific and engineering principles involved in the production of hydrogen, alcohols, olefins, aromatics, aldehydes, ketones, acids, rubber, and other polymers; emphasis on catalysis by transition-metal complexes.

4210 Industrial Catalysis (3) Prereq.: credit or registration in CHE 4190. Principles of the industrial utilization of heterogeneous catalysis; topics include absorption phenomena, methodology in catalyst preparation, characterization and evaluation of catalysts, diffusion and reaction in porous catalysts, and a survey of major industrial processes.

4221, 4222 Senior Research (1,2) Prereq.: credit or registration in 3102, 3104, and 3173, gpa of at least 2.8 (in CHE) and consent of instructor. CHE 4221 is a prerequisite for 4222. Not open to graduate students. 1 hr. lecture (4221); 6 hrs. lab (4222). Comprehensive research or development project of a theoretical or experimental nature, involving a team effort over two semesters (spring and fall periods).

4253 Introduction to Industrial Pollution Control (3) Prereq.: CHE 3102 or equivalent introductory course in transport science. Quantitative application of chemical engineering principles to removal of objectionable components from effluents, with emphasis on industrial processing effluents; currently available techniques for controlling air and water pollution and solid wastes; concept of pollution control through basic process alterations developed by specific examples.

4260 Biochemical Engineering (3) Prereq.: credit or registration in CHE 4190 or equivalent. Application of chemical engineering fundamentals to microbiological and biochemical systems; problems peculiar to industrial operations involving microbial processes; growth conditions and requirements, metabolisms, product separations, enzyme catalysis, sterilization, and aseptic operations.

4263 Environmental Chemodynamics (3) Prereq.: CHE 3102 or equivalent introductory course in transport science. Environmental chemodynamics: interphase equilibrium, reactions, transport processes and related models for anthropogenic substances across natural interfaces (air-water-sediment-soil) and associated boundary regions.

4270 Processing of Advanced Materials (3) Prereq.: CHE 3102 or equivalent transport course. Treatment of coupled chemical reaction and mass, energy, and momentum transport in the manufacturing and processing of semiconductors and advanced ceramic materials; engineering models for chemical and physical vapor deposition methods and condensed phase processes.

4272 Chemical Processing of Nanomaterials (3) Prereq.: CHE 3102 or equivalent introductory course in transport science. Chemical engineering principles applied to preparation, handling, and applications of nanomaterials. Emphasis will be on manufacturing and processing steps. Case studies will be developed to focus on specific device or material applications.

4275 Electrochemical Engineering (3) Prereq.: CHE 3102 or equivalent introductory course in transport science. Principles of electrochemistry applied to engineering problems; potential distribution theory, kinetics, mass transport, and thermodynamic principles; quantification of controlling factors in microfabrication, corrosion, battery design, and electrochemical synthesis.

4285 Principles of High Polymers (3) Prereq.: CHE 3172 and CHEM 3491. Solution and solid-state properties of high polymers; microstructure of polymer chains and effect on macromolecular physical properties of the final plastics.

4296 Development of Mathematical Models (3) Prereq.: CHE 2176 and 3102; or equivalent. Mathematical descriptions of systems encountered in chemical engineering developed from basic principles; lumped parameter systems, distributed parameter systems, formulation of ordinary and partial differential equations, continuous and discrete analogs, and matrix formulations; models developed for systems ranging from simple elements to plant-scale.

4410 Special Topics in Chemical Engineering Design (3) May be taken for a max. of 6 sem. hrs. when topics vary. One or more phases of current chemical engineering design.

4420 Special Topics in Chemical Engineering Science (3) May be taken for a max. of 6 sem. hrs. when topics vary. One or more phases of current chemical engineering science.

7100 Chemical Engineering Fluid Mechanics (3) F Foundations of continuum fluid mechanics and the equations of motion; solution methods for lubrication flows, creeping flows, boundary layer problems, laminar flows with strong convection; introduction to selected topics including: turbulence, non-Newtonian fluids, interfacial flows, computational fluid dynamics, microfluidics, particle motion, droplet dynamics.

7110 Mathematical Methods in Chemical Engineering (3) F Review of physicochemical problem formulation; analytical and approximate techniques for the solution of linear and nonlinear differential equation models in chemical engineering systems.

7120 Chemical Engineering Thermodynamics (3) F Thermodynamic properties, first and second laws of thermodynamics, entropy, Maxwell relations, and relationship of thermodynamic properties to intermolecular forces; physical equilibrium with emphasis on partial free energy, fugacity, Raoult's law, K-values, equations of state, and activity coefficients; chemical equilibrium and free energies; fundamentals of statistical mechanics.

7130 Fundamentals of Transport Phenomena (3) S Foundations of heat and mass transport in continua; modeling and solution techniques; transport by diffusion, convection, and turbulence; forced convection; buoyancy-driven transport; introduction to computational modeling.

7140 Chemical Reactor Design Methods (3) S Basic principles of chemical kinetics, fluid flow, heat transfer, and mass transfer used in design of chemical reactors; chemical equilibria, chemical kinetics, design of isothermal reactors, effects of nonideal flow, nonisothermal reactors, and solid-gas catalytic reactions.

7314 Optimization (3) Techniques of optimization including analytical methods, linear and nonlinear programming, geometric and dynamic programming, and variational methods with application to systems of interest to chemical engineers.

7352 Distillation and Other Separation Processes (3) Mathematical models, phase equilibria, and calculation procedures related to design and behavior of distillation columns, absorbers, extractor-settlers, etc.; emphasis on computer techniques.

7512 Advanced Chemical Engineering Analysis (3) Prereq.: CHE 7110 or equivalent. May be taken for a max. of 6 hrs. of credit with consent of department. Topics in chemical engineering analysis, such as perturbation methods, matched asymptotic expansions, vector and tensor calculus, and numerical techniques.

7522 Advanced Chemical Engineering Thermodynamics (3) Prereq.: CHE 7120 or equivalent. May be taken for a max. of 6 hrs. of credit with consent of department. Thermodynamics of chemical engineering processes, such as nonequilibrium thermodynamic properties.

7532 Advanced Chemical Engineering Fluid Mechanics (3) Prereq.: CHE 7100 or equivalent. May be taken for a max. of 6 hrs. of credit with consent of department. Chemical engineering flow processes, such as turbulence, boundary layer theory, hydrodynamic stability, compressible flow, multiphase flow, chemically reacting flows, and non-Newtonian and viscoelastic fluids.

7534 Advanced Chemical Engineering Heat Transfer (3) Prereq.: CHE 7130 or equivalent. May be taken for a max. of 6 hrs. of credit with consent of department. Chemical process heat transfer; phase change and moving boundary problems; heat transfer mechanisms, natural and forced convection, radiation, and combined heat and mass transfer.

7536 Advanced Chemical Engineering Mass Transfer (3) Prereq.: CHE 7130 or equivalent. May be taken for a max. of 6 hrs. of credit with consent of department. Transport of mass in chemical engineering processes, such as diffusional operations, models for mass transfer in multi-component, multiphase, stationary, flowing, and reacting systems.

7542 Catalysis (3) Prereq.: CHE 7140 or equivalent. Heterogeneous catalysis; adsorption phenomena, physical methods, solid state spectroscopies, and reaction mechanisms as applicable to fundamental and industrially significant processes.

7544 Chemical Kinetics and Reaction Mechanisms (3) Prereq.: CHE 7140 or equivalent. Gas-phase reactions and modern approach to deduction of reaction mechanism; collision, transition state, RRK, and RRKM theories, bond energy correlations, kinetics of complex reaction systems, fast reactions, computer modeling, and sensitivity analysis.

7572 Advanced Automatic Process Control (3) Prereq.: CHE 4198 or equivalent. Recent developments in control theory applied to control schemes in industrial processes; techniques of state space analysis, nonlinear stability criteria, multivariable control, and system identification.

7574 Digital Control of Processes (3) Prereq.: CHE 4198 or equivalent. Theory and use of digital computers for process control; relationships between computer and process control schemes, control algorithms, valve dynamics, modeling techniques.

7582 Polymerization and Polycondensation Processes (4) Prereq.: CHEM 4160 or 4562 or CHE 4285 or equivalent. 3 hrs. lecture; 3 hrs. demonstration/lab. Also offered as CHEM 7261. Preparation and characterization of high polymers; typical commercial procedures for plastics production.

7592 Design Problems in Chemical Engineering (3) Prior to registration students should discuss a prospective design

problem with faculty member under whom they plan to study and obtain departmental approval. Design problem cannot be directly related to student's research. Integration of technology into design of systems or plants for accomplishing specific objectives; emphasis on producing a design package considering technical, economic, manning, and scheduling aspects of the project.

7594 Advanced Computer-Aided Process Design (3) Prereq.: CHE 4172 or equivalent. May be taken for a max. of 6 hrs. of credit with consent of department.

Computer-aided process design and simulation of chemical process industries, such as sequential modular flow sheeting, simultaneous solution schemes, decomposition strategies, and various simulation languages.

7700 Advanced Topics in Chemical Engineering (3) May be taken for a max. of 9 hrs. of credit with consent of instructor. One or more phases of advanced chemical engineering practice.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

CHEMISTRY • CHEM

Laboratory Expenses • Students registering for laboratory courses in chemistry are charged a laboratory usage deposit on their fee bill.

Corequisites • A student may not continue in a course if the corequisite course is dropped prior to the last day of the midsemester examination period.

General education courses are marked with stars (★).

★ **1001 Chemical Fundamentals (3) Prereq.: ACT mathematics score of at least 21 or eligibility for MATH 1021.** For those students whose curricula require only one year of chemistry or physical science. Also may be taken as a preparatory course for CHEM 1201. An overview of chemical theory and principles with emphasis on the role of chemistry in the modern world.

★ **1002 Chemistry of Life and the Environment (3) Prereq.: CHEM 1001 or 1201 or 1421.** An overview of organic chemistry and biochemistry; emphasis on the molecular basis for the biological, materials, and environmental sciences.

1200 General Chemistry I Supplement (1) Prereq.: registration in CHEM 1201 and MATH 1021. Pass-fail grading. One 90 minute session per week. Intensive treatment of concepts, mathematical operations, and problem-solving techniques commonly encountered in CHEM 1201, with emphasis on concept application.

★ **1201 General Chemistry I (3) Prereq.: credit or registration in MATH 1022, 1023, 1431, 1550, or 1551; or concurrent registration in MATH 1021 and CHEM 1200. Credit will not be given for this course and CHEM 1421.** For science/engineering curricula. Modern chemical theories and principles; quantitative approach and problem solving; descriptive chemistry of selected elements and compounds.

★ **1202 General Chemistry (3) Prereq.: CHEM 1201 or 1421. Credit will not be given for both this course and CHEM 1422.** For science/engineering curricula. Continuation of CHEM 1201. Additional theory with emphasis on solution chemistry and a quantitative approach; descriptive chemistry of selected elements and compounds from the main groups and the first transition series.

1212 General Chemistry Laboratory (2) Prereq.: credit or registration in CHEM 1002, 1202, or 1422. 6 hrs. lab. Credit will not be given for both this course and CHEM 1431. Laboratory usage deposit. Basic laboratory operations including selected experiments and introductory inorganic qualitative analysis.

★ **1421 HONORS: General Chemistry (3) Prereq.: ACT mathematics score of at least 27 or eligibility for MATH 1550. Credit will not be given for both this course and CHEM 1201.** Chemistry majors who qualify should take this course. For well-prepared students with a special interest in chemistry.

★ **1422 HONORS: General Chemistry (3) Prereq.: CHEM 1421, or CHEM 1201 with consent of department chair.** Chemistry majors who qualify should take this course. Credit will not be given for both this course and CHEM 1202. Continuation of CHEM 1421.

1431 HONORS: General Chemistry Laboratory (2) S Prereq.: credit or registration in CHEM 1422, or credit or registration in CHEM 1202. 6 hrs. lab/demonstration. Credit will not be given for both this course and CHEM 1212. For chemistry majors and other well-prepared students with special interest in chemistry. Laboratory usage deposit. Fundamental chemical operations, a selection of experiments, and elementary quantitative techniques.

2001 Analytical Chemistry (2) Prereq.: CHEM 1202 or

1422. Basic principles and practices of modern methods of analysis.

2002 Analytical Chemistry Laboratory (2) Prereq.: CHEM 2001 and 1212 or 1431. 6 hrs. lab. Credit will not be given for both this course and CHEM 2003. Laboratory usage deposit. Experiments in modern methods of analysis.

2003 HONORS: Analytical Chemistry Laboratory (2) Prereq.: CHEM 2001, 1212, or 1431. 6 hrs. lab. Credit will not be given for both this course and CHEM 2002. Primarily for chemistry majors. Laboratory usage deposit. Experiments in modern methods of analysis.

2060 Survey of Organic Chemistry (3) Prereq.: CHEM 1202 or 1422. Credit will not be given for both this course and CHEM 2261 and 2461. Aliphatic and aromatic compounds; biological aspects of organic chemistry.

2261 Organic Chemistry (3) Prereq.: CHEM 1202 or 1422. Credit will not be given for both this course and CHEM 2060 and 2461. Representative classes of organic compounds; emphasis on varied professional goals of students, e.g., life sciences, physical sciences, engineering.

2262 Organic Chemistry (3) Prereq.: CHEM 2261. Continuation of CHEM 2261. Credit will not be given for this course and CHEM 2462.

2364 Organic Chemistry Laboratory (2) Prereq.: CHEM 1212; and CHEM 2060 or credit or registration in CHEM 2262 or 2462. 6 hrs. lab. Same as CHEM 2463. Laboratory usage deposit. Fundamental laboratory operations of organic chemistry.

2461 HONORS: Organic Chemistry I (3) F Prereq.: a grade of "A" or "B" in CHEM 1202 or CHEM 1422. Chemistry majors who qualify should take this course. For well-prepared students with a special interest in chemistry. Credit will not be given for this course and CHEM 2060 or CHEM 2261. Studies of structure, mechanism, and synthesis in organic chemistry.

2462 HONORS: Organic Chemistry II (3) S Prereq.: CHEM 2461 or a grade of "A" in CHEM 2261. Chemistry majors who qualify should take this course. For well-prepared students with a special interest in chemistry. Credit will not be given for both this course and CHEM 2262. Continuation of CHEM 2461.

2463 HONORS: Organic Chemistry Laboratory (2) S Same as CHEM 2364; primarily for chemistry majors. Laboratory usage deposit.

2900 Research Internship (1-2) Prereq.: CHEM 1201 or 1431. May be taken 6 times for credit; no more than 8 sem. hrs. of credit may be earned in CHEM 2900 and 3900. May be selected on recommendation of professor directing the work. Pass-fail grading. Introduction to chemical research by association with departmental research groups.

3001 Science Teaching in Secondary School I: The Learner (1) See BIOL 3001.

3002 Science Teaching in Secondary School II: Technology in Science Education (1) See BIOL 3002.

3491 Physical Chemistry I (3) Prereq.: MATH 2057 or 2090; PHYS 1202 or 2102; and CHEM 1202 or 1422; all three courses with a grade of "C" or better. Principles of physical chemistry including quantum mechanics, kinetics, and thermodynamics.

3492 Physical Chemistry II (3) Prereq.: CHEM 3491. Continuation of CHEM 3491.

3493 Physical Chemistry Laboratory (3) S Prereq.: PHYS 1209 or 2109; CHEM 1212 or 1431; and credit or registration in CHEM 3492. 1 hr. lecture; 5 hrs. lab. Laboratory usage deposit. Selected experiments to accompany physical chemistry.

3900 Chemical Problems (1-3) Coreq.: CHEM 3492. May be taken for a max. of 6 sem. hrs. of credit; no more than 8 sem. hrs. of credit may be earned in CHEM 2900 and 3900. May be selected on recommendation of professor directing the work and consent of the dean of the college. Written report of research problem is required. Introduction to chemical research methods.

4003 Science Teaching in Secondary School III: Instructional Strategies in Science (1) See BIOL 4003.

4004 Seminar in Teaching Secondary School Science (3) See BIOL 4004.

4005 Science Research Methods (3) See BIOL 4005.

4010 Macromolecular Systems I (4) Prereq.: CHEM 2262 and 3491 or equivalent. 3 hrs. lecture; 2 hrs. lab. Principles of large molecules and polymeric materials: physical states, morphology, strength, processing; synthesis and biosynthesis; characterization.

4011 Macromolecular Systems II (4) Prereq.: CHEM 4010. 3 hrs. lecture; 2 hrs. lab. Behavior of large molecules, emphasizing theory and practice of modern and classical methods for molecular characterization.

4150 Environmental Chemistry (3) F Prereq.: CHEM 2001 and 2261 or 2461 or 2060. Also offered as ENVS 4101. Chemical principles applied to the study of the distribution, transport, reactivity, and toxicity of chemical species in the environment.

4160 Industrial Organic Chemistry (3) S Prereq.: CHEM

2262 or 2462. Review of major industrial processes with special emphasis on polymer synthesis and applications.

4552 Instrumental Characterization of Organic Compounds (2) Prereq.: CHEM 2001, 2002, or 2003 and credit or registration in CHEM 3492. Molecular analysis, NMR, IR, and UV spectroscopy, mass spectroscopy, chromatography, thermal analysis, and combination of techniques.

4553 Instrumental Characterization of Organic Compounds (2) Prereq.: CHEM 2001 and 2002 or 2003, and 4552. 6 hrs. lab. Laboratory usage deposit. Applications of molecular analysis.

4561 Intermediate Physical-Organic Chemistry (3) F Prereq.: CHEM 2262 or 2462 and 3492. Selected topics in kinetics, reaction mechanisms, applications of quantum mechanics to organic chemistry, and related topics in physical-organic chemistry.

4562 Intermediate Organic Chemistry (3) F Prereq.: CHEM 2262 or 2462. Selected topics in synthesis, natural products chemistry, stereochemistry, reaction mechanisms, and related topics in structural and synthetic organic chemistry.

4563 Problems in Organic Structure Elucidation (3) Prereq.: CHEM 2262 or 2462 and 3492. Focus on interpretation of multiple types of NMR spectra, mass spectra or other spectra relevant to structure elucidation; extensive utilization of actual spectra in problem solving sessions.

4564 Advanced Organic and Inorganic Laboratory (3) Prereq.: CHEM 2364 or equivalent. 1 hr. lecture; 6 hrs. lab. Laboratory usage deposit. Organic and inorganic preparations emphasizing modern synthetic methods and modern characterization techniques.

4570 Advanced General Inorganic Chemistry (3) Prereq.: credit or registration in CHEM 3492. For advanced undergraduates and beginning graduate students. Principles in advanced inorganic chemistry; modern interpretations.

4571 Organometallic Chemistry (3) Prereq.: CHEM 2262 or 2462 and credit or registration in CHEM 3492. Chemistry and principles of metal bonds with metal to carbon sigma and pi bonds; bonding concepts, electronic structure, periodic trends and fundamental reaction mechanisms; applications to homogeneous catalysis.

4572 Foundations of Bioinorganic Chemistry (3) S Prereq.: CHEM 3492 or BIOL 4001. Concepts of coordination chemistry, biochemistry, and physical methods used in bioinorganic chemistry.

4581 Introduction to Mathematical Chemistry (3) V Prereq.: MATH 2057 and credit or registration in CHEM 3491. Mathematical methods of chemistry, with application to selected chemical problems.

4594 Introduction to Quantum Chemistry (3) V Prereq.: CHEM 3492 and MATH 2057. Basic ideas of quantum mechanics; application to atomic and molecular structure.

4596 Chemical Thermodynamics (3) V Prereq.: CHEM 2262 or 2462 and 3492. Principles of macroscopic thermodynamics and application to systems of chemical relevance.

4597 Introduction to Statistical Thermodynamics (3) V Prereq.: CHEM 3492 and MATH 2057. Introductory quantum and classical statistical thermodynamics of some simple systems of chemical relevance.

6001 Chemistry Instruction Through Demonstration and Experiments (3) Prereq.: one year of college chemistry. 2 hrs. lecture; 3 hrs. lab. Demonstration techniques for junior and senior high school instruction; hands-on experience.

6002 Chemical Principles for Teachers (3) Su-V For elementary and middle school teachers. A basic chemistry course with emphasis upon the principles relevant to effective use of educational materials developed by professional societies and national curricular development projects.

6003 Laboratory Methods for Teachers (3) Su-V 1 hr. lecture; 6 hrs. lab. For elementary and middle school teachers. Analysis of laboratory experiments in current elementary and middle school curricula; selected experiments in modern chemistry.

6691 Seminar in Current Developments in Chemistry (1-3) Su only, V Prereq.: CHEM 1202 or 1422 or equivalent. For high school and junior college teachers; part of the MNS degree program. May be taken for a max. of 6 sem. hrs. of credit when topics vary.

7010 Macromolecular Systems III (3) F Prereq.: CHEM 4010. Introduction to representative classes of macromolecules; emphasis on polymerization mechanisms and kinetics; advanced polymer synthesis techniques, including synthesis of inorganic polymers, biopolymers, and conjugated polymers.

7011 Macromolecular Systems IV (3) S Prereq.: CHEM 4011. Structure property relationships for materials such as liquid crystals; polymer blends, and block copolymers; polymer nanocomposites and nanotechnology related materials.

7221 Chemical Dynamics and Kinetics (3) Prereq.: CHEM 3491 and 3492. Theories of chemical reaction rates in the gas

phase and in solution; chemical dynamics; gas phase and solution kinetics; applications of kinetics and chemical dynamics to mechanistic studies; modern experimental techniques.

7251 Elemental Analysis (2) V Modern analytical methods for elemental analysis including atomic absorption; atomic emission including plasma; X-ray emission; ESCA-Auger; neutron activation analysis.

7253 Molecular Analysis (2) V Modern analytical methods for molecular characterization including infra-red, Fourier transform infra-red, ultraviolet, nuclear magnetic resonance, mass spectroscopy, chromatography, gas chromatography coupled with mass spectroscopy, thermal analysis, and X-ray diffraction.

7261 Polymerization and Polycondensation Processes (4) V See CHE 7582.

7272 Inorganic Chemistry of Transitional Elements (2) V Prereq.: CHEM 4570 or equivalent. Chemistry of transitional elements including structural chemistry, coordination chemistry, organometallic chemistry; theories of the coordinate bond and their application to spectra, magnetism, and kinetics and mechanisms of complexes.

7290 Statistical Mechanics and Thermodynamics (3) V Methods of statistical mechanics of independent and inter-acting particles including ideal gases, real gases, crystals, other solids, liquids, solutions, and chemical equilibria; advanced topics and areas of current research.

7291 Quantum Chemistry (3) V Methods of quantum mechanics applied to molecular spectra, chemical bonding, and other chemical properties; oscillators, rotators, hydrogen-like wave functions, perturbation and variation theories, configuration interaction, pi-electron systems, spin, and empirical methods.

7292 Special Topics in Chemical Physics (2-3) May be taken 4 times for credit. Specialized areas of physical chemistry.

7750 Special Topics in Analytical Chemistry (2-3) May be taken 4 times for credit. Modern methods and techniques of analytical chemistry.

7760 Special Topics in Organic Chemistry (2-3) May be taken 4 times for credit. Specialized areas of current interest in organic chemistry.

7770 Special Topics in Inorganic Chemistry (2-3) May be taken 4 times for credit. Advanced treatment of areas of current interest in modern inorganic chemistry.

7780 Special Topics in Macromolecular Chemistry (2-3) May be taken 4 times for credit. Advanced treatment of specialized subjects of importance to current macromolecular research.

7800 Seminar (1) May be taken 6 times for credit. Pass-fail grading. All graduate students are expected to participate in report and discussion groups in field of chemistry of their particular interest.

7901 Speaking of Macromolecules (1) May be taken for a max. of 6 sem. hrs. of credit. Pass-fail grading. Multidisciplinary seminar that explores current research concerning macromolecules.

8000 Thesis Research (1-12 per sem.) Students who receive 6 hrs. of credit for this course cannot obtain more than 9 hrs. of credit for CHEM 8900. "S"/"U" grading.

8900 Procedures and Problems in Chemical Research (1-12) Open only to students of proven ability or exceptional potential. Students who receive 6 hrs. of credit for CHEM 8000 cannot obtain more than 9 hrs. of credit in this course. Pass-fail grading. Experimental research methods, design and execution of experiments, and analysis and correlation of experimental data.

9000 Dissertation Research (1-12 per sem.) Prereq.: 6 hrs. of credit in CHEM 8000 or 8900. "S"/"U" grading.

CHINESE • CHIN

Native speakers of Chinese will not receive credit for courses marked with an asterisk (*).

General education courses are marked with stars (★).

*1101 Beginning Mandarin Chinese (4) Persons with prior knowledge of Mandarin may not take this course for credit. Basic lexicon and structure of Chinese; development of speaking and listening skills.

★ *1102 Beginning Mandarin Chinese (4) Basic lexicon and structure; emphasis on communicative language use.

★ *2001 Intermediate Mandarin Chinese (4) Prereq.: CHIN 1102. Continuation of the study of basic lexicon and structures of Chinese; emphasis on further development of speaking, writing, and reading skills.

★ *2002 Intermediate Mandarin Chinese (4) Prereq.: CHIN 2001. Continuation of the study of basic lexicon and structures of Chinese; emphasis on further development of speaking, writing, and reading skills.

★ 2070 Chinese Cinema (3) Chinese cinema from 1896 to

the present; emphasis on the New Chinese cinema since 1980s; screening and analysis of representative films; knowledge of Chinese not required.

3101 Advanced Chinese (3) Prereq.: CHIN 2002 or equivalent. Introduction of authentic materials of increasing complexity on a variety of topics; emphasis on the use of relatively sophisticated structures vocabulary in complex communication.

3102 Advanced Chinese (3) Prereq.: CHIN 3101 or equivalent. Introduction of authentic materials of increasing complexity on a variety of topics; emphasis on the use of relatively sophisticated structures vocabulary in complex communication.

★ **3801 Traditional East Asian Literature (3) Taught in English; knowledge of East Asian languages not required. Also offered as JAPN 3801.** Introduction to the genres, themes, and representative works of traditional Chinese and Japanese literature; emphasis on critical reading.

★ **3802 Modern East Asian Literature (3) Taught in English; knowledge of East Asian languages not required. Also offered as JAPN 3802.** Introduction to the genres, themes, and representative works of modern Chinese and Japanese literature; emphasis on critical reading.

4400 Topics in Chinese Culture (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Interdisciplinary study of Chinese literary texts, covering such fields as literature, the arts, politics, religion, and society. All readings in English.

4915 Independent Work (1-3) May be taken for a max. of 6 sem. hrs. of credit. Permission of department required. Directed readings in classical Chinese or Chinese literature.

7001 Chinese Culture and Language (3) Prior knowledge of Chinese not required. Introduction to Chinese culture with a focus on business; basic Chinese language for business.

CIVIL ENGINEERING • CE

In the Department of Civil Engineering, the second digit of the course number denotes the subject area of the course, as follows: 0 (construction, excluding 8000, 9000); 1 (environmental); 2 (water resources); 3 (geotechnical); 4 (structures); 5 (surveying); 6 (transportation); 7 (general).

2200 Fluid Mechanics (3) Prereq.: grade of "C" or better in CE 2450. Statics and dynamics of continuous liquids and gases; control volume laws; conservation of mass, momentum, and energy; dimensional analysis and similitude; applications to pipe flows.

2250 Fluid Mechanics Laboratory (1) Prereq.: CE 2200 and CE 2720 (for CE majors, a grade of "C" or better is required in CE 2200). 3 hrs. lab. Measurement and calibration of hydraulic machinery; pump and turbine efficiency; flow in pipelines; viscosity; discharge coefficients.

2450 Statics (3) Prereq.: grade of "C" or better in MATH 1550, 1552 and PHYS 2101. Vectorial treatment of resultants and equilibrium of force systems, centroids and centers of gravity, fluid statics, friction.

2460 Dynamics and Vibrations (3) Prereq.: grade of "C" or better in CE 2450 and credit or registration in MATH 2065. Credit will not be given for this course and ME 3133. Treatment of kinematics and kinetics of particles and rigid bodies; force, movement, velocity, acceleration; impulse and momentum; work and energy; dynamics and vibration; concepts applied to structural and machine components.

2700 Introduction to Civil Engineering Practice (2) Designed for civil engineering majors; open to nonmajors by consent of department. 1 hr. lecture; 3 hrs. lab. Credit will not be given for this course and EVEG 2000. Students will conduct three individual projects including civil engineering construction descriptions. Basic technical and professional aspects of civil engineering education and practice.

2720 Computational Methods in Civil and Environmental Engineering I (3) Prereq.: MATH 1550 (for CE and EVEG majors, a grade of "C" or better is required in MATH 1550). Fundamental computational numerical and statistical techniques; descriptive statistics; correlation and regression analysis; numerical interpolation; root finding; and numerical integration and differentiation techniques for civil and environmental engineering systems.

3300 Geotechnical Engineering I (3) Prereq.: GEOL 1001, CHEM 1202, CE 2200, and credit or registration in CE 3350 (for CE and EVEG majors, a grade of "C" or better is required in CHEM 1202 and CE 2200). Introduction to properties and engineering behavior of soil as a native earth material, an engineering material, and an environmental medium subject to flux and transport of liquids, gases, and contaminants; understanding of elementary physical, chemical, and biological phenomena as such phenomena influence the engineering behavior of soils.

3350 Geotechnical Engineering Laboratory I (1) Prereq.: EXST 2201, and CE 2720 and credit or registration in CE

3300. 3 hrs. lab. Laboratory measurement of properties, indices, and behavior of soil as an engineering material and environmental medium; testing methods to determine gradation, specific shear strength testing, unconfined compression, one-dimensional consolidation, hydraulic conductivity, specific surface area, surface change, x-ray diffraction, pH-redox, and conductivity measurements.

3400 Mechanics of Materials (3) Prereq.: Grade of "C" or better in CE 2450 and credit or registration in CE 2720 or equivalent. Stress and strain, torsion, bending, deflections of beams, columns, statically indeterminate problems, combined stress.

3410 Mechanics of Materials Laboratory (1) Prereq.: EXST 2201 and CE 3400 (for CE majors a grade of "C" or better is required in CE 3400). 3 hrs. lab. Mechanical properties and strengths of engineering materials and structural and machine elements.

3415 Structural Analysis I (3) Prereq.: MATH 2065 and CE 3400 (for CE majors, a grade of "C" or better is required in CE 3400). Analysis of statically determinate structures including beams, frames, trusses, and arches for the effects of dead, live, moving, and windloads.

3500 Plane Surveying and Measurements (3) Prereq.: EXST 2201. 2 hrs. lecture; 3 hrs. lab. Plane surveying theory of measurements; use of surveying equipment; field and office work for boundary surveys and topographic mapping.

3600 Principles of Highway and Traffic Engineering (3) Prereq.: CE 3500. Basic traffic characteristics; highway capacity analysis; geometric design of highways; route location, traffic operations, and signalized intersection design.

3700 Engineering Materials Laboratory (1) Prereq.: credit or registration in CE 3400 or equivalent. 3 hrs. lab. Design and properties of concrete and bituminous mixes.

3740 Independent Studies in Civil Engineering (3) Prereq.: senior standing, English proficiency, and ENGL 3002 (unless ROTC is elected); gpa of at least 2.30 (overall and major area); and consent of department chair. Project chosen in consultation with department chair. Formal proposal and final presentation required. Comprehensive design and/or development of a component, system, process, or software package.

4200 Hydrology (3) Prereq.: CE 2200 (for CE and EVEG majors, a grade of "C" or better is required in CE 2200). Water movement from arrival on land surface until it reaches the sea overland; concept of frequency, maximum probable runoff of rainfall, mass curves, and other statistical methods of hydrologic engineering.

4250 Ground Water (3) Prereq.: CE 2200 (for CE and EVEG majors, a grade of "C" or better is required in CE 2200). Occurrence of ground water; properties and classification of water-bearing formations; origin, discharge, and methods of evaluating direction and rate of ground water movement; Darcy's Law, Theis Equation, analysis of aquifer tests, and "safe yield;" legal doctrines, side effects of aquifer development, and the economics of ground water.

4260 Design of Hydrologic Systems (3) Prereq.: EVEG 3200, CE 4200, and CE 4750 or equivalent. Hydrologic design of water resources projects; maximization of benefits; analysis techniques; and design parameters.

4300 Geotechnical Engineering II: Shallow Foundations (3) Prereq.: CE 3300, 3350, and credit or registration in CE 4410. Fundamentals of geotechnics applied to design and analysis of shallow foundations, excavations, retaining structures, and slopes; selected topics on soil improvement and vibration; emphasis on computer utilization.

4310 Geotechnical Engineering III: Deep Foundations (3) Prereq.: CE 3300 and 3350. Fundamentals of geotechnics applied to design and analysis of deep soil-structure systems; single piles and pile groups under axial load; caissons and piers; effects of lateral loads; computer utilization.

4320 Coastal Engineering (3) Prereq.: CE 3300 or equivalent. Engineering problems of the coastal zone; coastal processes, wave action, currents, sediment movement; environmental forces due to waves, currents, and winds; offshore soil geotechnical properties, vertical and lateral pile capacity; design principles for submarine pipelines and offshore platforms; engineering case studies.

4400 Principles of Steel Design (3) Prereq.: CE 3415. Analysis and design of elements of steel structures, elastic and plastic design, critical comparison of specifications with theory.

4410 Principles of Reinforced Concrete (3) Prereq.: CE 3415. Working stress and ultimate strength theories as applied to concrete beams (reinforced and prestressed), columns, slabs, and footings; experimental data and current design specifications.

4420 Principles of Prestressed Concrete (3) Prereq.: CE 3415. Analysis and design of prestressed concrete structural elements; full and partial prestressing; service ability and strength requirements; code criteria for bridges, buildings, and other structures.

4425 Principles of Wood Mechanics and Timber Design

(3) Prereq.: CE 3415 or equivalent. Basic principles of mechanics, elasticity, rheology, and failure as applied to wood; design methods and specifications governing the design of sawn lumber, plywood, and glulam timber structures and structural components.

4430 Structural Engineering (3) Prereq.: CE 4750, 4400 and 4410, or equivalent. Fundamental principles applied to planning, analysis, and design of structures; introduction to computer-aided design approach to solving structural engineering problems using mainframe and microcomputer software.

4435 Indeterminate Structural Analysis (3) Prereq.: CE 3415. Analysis of statically indeterminate structures; methods of consistent deformations, elastic energy, virtual work, slope deflection, moment distribution, and matrix formulations.

4440 Advanced Mechanics of Materials (3) Prereq.: CE 3400 and MATH 2065 (for CE majors, a grade of "C" or better is required in CE 3400). Mechanics of materials; emphasis on needs of students interested in structural and machine design.

4445 Hurricane Engineering (3) Prereq.: CE 3415 and CE 2200 or equivalent. Credit will not be given for both this course and CE 4745. Analysis and design of structures to resist hurricanes and other natural hazards; wind engineering, flood engineering; hazard phenomena and probabilities of occurrence; estimation of loads, loading provisions of major building codes and standards; damage mechanisms; design strategies for life safety and damage mitigation.

4450 Finite Element Methods (3) Prereq.: CE 3400; and either MATH 2065 or 2090 or 2070 (for CE majors, a grade of "C" or better is required in CE 3400). Basic theory of finite element methods with applications to a wide class of physical problems; matrix representation of stress, strain, and material relations; principle of virtual work, discrete finite element models of continuous systems, construction of basic finite element algorithms, and solutions of physical problems by using existing finite element computer programs.

4460 Design of Bridges (3) Prereq.: CE 4410, CE 4750, and credit or registration in CE 4400 or CE 4420, or equivalent. 2 hrs. lecture; 3 hrs. lab. Design of concrete and steel bridges in accordance with the latest AASHTO specifications; understanding of theoretical background behind the codes such as risk and reliability concepts; load rating of bridges, and hands-on bridge design using computer software and hand calculations.

4500 Geodetic and Photogrammetric Surveying (3) Prereq.: CE 3500 or equivalent. 2 hrs. lecture; 3 hrs. lab. Geodetic surveying for control surveys; photogrammetry and photointerpretation; calculation and field procedures used in ground control surveys and photogrammetry.

4520 Advanced Surveying (3) Prereq.: CE 3500 or equivalent. 2 hrs. lecture; 3 hrs. lab. Electronic surveying, simultaneous conveyances, subdivision surveys, flood plain management, state plane coordinates, solar azimuths, horizontal and vertical curves, and earthwork.

4530 Control Surveying with GPS (3) Prereq.: CE 3500 or equivalent surveying course. 2 hrs. lecture; 3 hrs. lab. Understanding of spatial positioning capabilities available using satellite positioning system (GPS) receivers to calculate positions and to evaluate results; topics include classical geodetic methods, geometric geodesy, GPS receivers, static and kinematic GPS surveys, GPS computations, GPS mapping, vertical GPS, and gravimetric geodesy; lab includes demonstration and hands-on use of GPS equipment and software.

4550 Boundary Surveying (3) Prereq.: CE 3500 or equivalent. 2 hrs. lecture; 3 hrs. lab. Designed to prepare engineers to complete Land Surveyor Registration requirements in Louisiana. Procedures and laws governing surveying of boundaries; emphasis on U. S. Land Survey System and Louisiana surveying laws and grids.

4560 Engineering Applications of Remote Sensing (3) Prereq.: consent of instructor. 2 hrs. lecture; 3 hrs. lab. Photographic and digital image processes related to interpretation, principles, methods, and techniques; engineering applications in materials, land use, energy, hydrology, transportation, geology, geomorphology, and water resources.

4600 Geometric Design of Highways and Airports (3) Prereq.: CE 3600 or equivalent. 2 hrs. lecture; 3 hrs. lab. Principles of design and practice for rural and urban highway facilities and airport installations; design criteria and controls, capacity analysis, cross-section selection, design of horizontal and vertical alignment, intersections, interchanges and computer applications to design problems.

4620 Transportation Engineering (3) Prereq.: CE 3600 or equivalent. History, economics, and traffic characteristics of transportation systems; planning, design, construction, maintenance, and operation of air, highway, pipeline, rail, and water transportation facilities-vehicles,

guideways, and terminals.

4650 Introduction to Asphalt Mixture Design (3) Prereq.: CE 3400 and credit or registration in CE 3700 (for CE majors, a grade of "C" or better is required in CE 3400). Principles of design and practice of hot mix asphalt mixture design; fundamental properties and analysis of binder rheology, aggregates, and mixture design.

4670 Fundamentals of Pavement Design (3) F Prereq.: CE 3600 or equivalent. Flexible and rigid pavement design procedures; subgrade, base, and surfacing characteristics; loads; stresses in pavement systems; material characterization; pavement response models; pavement performance models; structural design systems; effects of natural forces; and construction practices.

4730 Risk and Reliability Analysis in Civil and Environmental Engineering (3) Prereq.: CE 2720 and EXST 2201. Decision making under certainty; probability distributions and their characteristics relevant to civil and environmental engineering systems; data gathering and analysis; extraction of information; entropy theory; estimation of distribution parameters; error and uncertainty analysis; reliability analysis and estimation; risk analysis and estimation; model selection; and reliability-based civil and/or environmental engineering design.

4745 Natural Hazards and the Built Environment (3) Prereq.: junior standing. Credit will not be given for both this course and CE 4445. Engineering impacts and implications of hurricanes, floods, earthquakes, and other natural hazards on the built environment; effects of hazards on buildings and infrastructure systems; damage mechanisms; principles of wind, flood, and seismic resistant design; hurricane evacuation and sheltering; engineering preparedness, response and recovery issues; design strategies for life safety and damage mitigation; building codes, land use zoning, floodplain management, and insurance as mitigation tools.

4750 Professional Issues and Concept Design in Civil Engineering (2) Prereq.: CE 2700 and senior standing. 1 hr. lecture; 2 hrs. lab. Civil engineering design processes and systems; constructability and sustainability; use of consultants and contractors; project management, scheduling; economics and costing; ethical, health, and safety; social, political, and environmental considerations.

4760 Civil Engineering Design (3) Prereq.: credit in EVEG 3200, CE 3300, 3600, 4410 or equivalent, 4750, and credit in at least one of the following courses: CE 4200, 4300, 4400, 4600, or 4670. 2 hrs. lecture; 3 hrs. lab. Design of civil engineering facilities; feasibility studies for subdivisions, airports, shopping centers, interchanges.

4770 Professionalism and Ethical Practice of Civil Engineering (1) Prereq.: senior standing in civil engineering. Role of professionalism in engineering education and practice; the civil engineer's responsibility in preserving the environment and protecting the safety, health, and welfare of the public.

4780 Special Topics in Civil Engineering Science (3) Prereq.: senior standing and departmental approval. May be taken for a max. of 6 hrs. of credit. More than one section may be taken concurrently for credit if topics differ. Topics in specialized civil engineering technical or analysis areas.

4781 Special Topics in Civil Engineering Design (3) Prereq.: senior standing and departmental approval. May be taken for a maximum of 6 hrs. of credit when topics vary. More than one section of this course may be taken for credit concurrently when topics differ. Selected topics in civil engineering design.

7100 Theory and Operation of Wastewater Treatment Facilities (3) Prereq.: EVEG 3110; or equivalent undergraduate preparation, or consent of instructor. Theoretical principles, design criteria, and analysis of treatment systems for domestic and industrial wastewaters and sludges; includes modeling of ideal biochemical reactors and design criteria for suspended-growth and biofilm processes applicable to wastewater treatment.

7110 Operations and Processes in Sanitary Engineering II (3) Prereq.: EVEG 3110 and 3200 or equivalent undergraduate preparation. Theory and design of water and wastewater treatment processes.

7115 Water Quality Management (3) Current environmental engineering topics, with emphasis on water quality; governmental agencies, regulations, and technological limits affecting water and wastewater treatment, solid wastes, hazardous wastes, and air pollution.

7120 Sanitary Engineering Operations and Processes Lab (3) Prereq.: CE 4130, 7100, and credit or registration in CE 7110. 1 hr. lecture; 6 hrs. lab. Laboratory and pilot plant studies of water and wastewater treatment processes.

7135 Advanced Topics in Biodegradation (3) Biological waste treatment applications in civil and environmental engineering, including current and emerging techniques for characterization, analysis, control, and mathematical modeling of biological processes in municipal and industrial waste treatment systems.

7145 Biological Treatment of Recirculating Systems in Aquaculture (3) Theory, design, and management of fixed film biofiltration processes used to recondition water in recirculating aquaculture systems and to provide tertiary treatment of domestic and industrial wastes characterized by low substrate regimes.

7180 Water Quality Simulations (3) Prereq.: CE 4130. Water quality modeling from a perspective of practicality and reliability; emphasis on model calibration and verification procedures and methodologies for quantifying uncertainties associated with model predictions.

7255 Advanced Hydraulics (3) Prereq.: CE 2200. Transportation of sediment, mixing current, and other phenomena.

7265 Advanced Subsurface Hydrology and Hydraulics (3) Prereq.: CE 4250. Properties of porous media and fluid mixtures; dynamics of flow in single phase and multiphase flow systems; miscible and immiscible flow; basic concepts in saturated and unsaturated flow; solution procedures and applications in engineering design; physics and mathematics of transport processes in ground water; governing equations, solution procedures, and applications; waste management and pollution control in subsurface environments.

7270 Hydrologic Systems (3) Prereq.: CE 4200. Techniques of systems analysis and synthesis; application to hydrologic processes including runoff, stream flow routing, infiltration, evapotranspiration, and watershed yield; development of watershed models using these techniques and their application to engineering design.

7275 Modeling for Management of Groundwater (3) Prereq.: CE 4250. Identification of management problems; applications of systems theory to develop modeling techniques; analytical and numerical techniques of groundwater modeling; development and application of models and computer codes for simulation and optimization management of surface and groundwater systems.

7280 Modeling in Physical Hydrology (3) Prereq.: CE 4200. Principles of mathematical physics applied to hydrologic processes; methods of solution and model building; application to water resource problems.

7300 Advanced Geotechnical Engineering I: Stress Distribution, Seepage, Compressibility (3) Prereq.: CE 3300 and 3350. Advanced theories of soil mechanics including stress distribution, seepage through soils, consolidation, and settlement analysis; their applications in foundation engineering.

7305 Numerical Methods in Geotechnical Engineering (3) Prereq.: CE 4450. Numerical analysis of problems of seepage, consolidation, stress-deformation, slope stability, and wave equation for piles.

7310 Advanced Geotechnical Engineering II: Shear Strength, Bearing Capacity, Slope Stability (3) Prereq.: CE 7300. Shear strength of cohesive and cohesionless soils; stability problems including bearing capacity, slope stability, and earth pressure distribution.

7315 Principles of Soil Behavior (3) Prereq.: CE 3300, 3350. Analysis of the effect of compositional and environmental factors on conduction phenomena, volume change behavior, deformation, strength stress-strain-time behavior in soils; soil composition, mineralogy, soil-water electrolyte systems in identification of influencing variables.

7335 Soil Improvement and Stabilization (3) Prereq.: CE 4300. Methodology and analysis of soil placement and improvement techniques; properties of mineral and organic salts, principles of soil compaction; methods of soil placement and improvement, chemical stabilization of soils, lime columns, stone columns, ultimate strength and bearing capacity of columns, compression by surcharging and drains, dynamic consolidation, vibro stabilization, thermal properties of soils, thermal stabilization.

7340 Theory and Practice of Geotechnical Laboratory Experiments (3) Prereq.: CE 3300, 3350, and 4300; or equivalent. 2 hrs. lecture; 3 hrs. lab. Theory and practice of laboratory experimental techniques used in geotechnical design and analyses.

7345 In-Situ Soil Testing and Evaluation (3) Prereq.: CE 7340. Theory and practice of new and advanced geotechnical in-situ testing methods (i.e. piezo-cone penetrometer, self-boring pressure meter, dilatometer, etc.)

7350 Soil Dynamics and Introduction to Earthquake Engineering (3) Prereq.: CE 7310. Theory and practice related to soil-structure systems subject to time dependent loadings; wave propagation in various media, steady state and transient vibration of foundations, measurement of dynamic soil parameters, analysis and design procedures; influence of soils on ground motion characteristics; causes of soil failure during earthquakes; liquefaction.

7355 Environmental Geotechnics (3) Prereq.: CE 3300, 3350. Geotechnical aspects of waste management; solute transport in saturated media, flow in partially saturated media, diffusion in soil, sorption, hydraulic conductivity, soil-pore fluid interactions, compaction, clay and flexible membrane liners, slope stability/settlement considerations, remediation techniques.

7405 Statically Indeterminate Structures (3) Prereq.: CE 4435. Analysis of statically indeterminate structures by modern methods.

7409 Advanced Concrete Theory (3) Analysis and design of reinforced concrete structural elements according to ultimate strength and limit design theories; prestressed indeterminate structures, shrinkage, and creep.

7420 Limit Analysis and Design (3) Prereq.: credit or registration in CE 4435. Analysis of steel structural behavior beyond elastic limit; design for ultimate load and use of load factors; application of linear programming and other computational techniques to optimization of structures designed by aid of concepts of limit analysis.

7430 Structural Design for Dynamic Loads (3) Sources, intensities, and methods of transmission of dynamic loads; response of structural systems to dynamic loading; modern computation techniques.

7455 Finite Element Method in Engineering (3) Prereq.: CE 4450. Finite element method as an extended Ritz technique based on variational concepts for continua with applications to heat transfer, flow through porous media, fluid dynamics, elasticity, plasticity, and stability and vibrations of elastic systems.

7460 Theory of Plates (3) Prereq.: credit or registration in CE 4440. Laterally loaded plates with various boundary conditions; approximate methods of plate analysis; large deflections of plates; elastic stability of plates.

7470 Theory of Elastic and Plastic Stability (3) Prereq.: credit or registration in 4435. Beam columns, elastic and plastic buckling of bars and frames, torsional buckling, lateral buckling of beams, elastic and plastic stability of frames, plate and shell buckling, approximate and special methods, and high speed computation.

7475 Solid Mechanics (3) Prereq.: CE 4440 and credit or registration in MATH 4038 or MATH 4340 or ME 4563.

Mathematical approach to statics and dynamics of deformable solids; tensors in curvilinear coordinates and variational calculus used to formulate elasticity and viscoelasticity theory; energy theorems and conservation laws.

7480 Plasticity and Viscoelasticity: Theory and Applications (3) Prereq.: CE 4440. Elements of the theory of plasticity; yield criteria and stress-strain relations for perfectly plastic and strain hardening materials; boundary value problems of plasticity; the slip-line theory and applications; constitutive equations of viscoelastic bodies and methods of solution of the boundary value problems of viscoelasticity.

7485 Mechanics of Composite Materials (3) Prereq.: CE 3400. Modeling of the mechanical behavior of fibrous composites for application to structural components; emphasis on interlaminar stresses, strength and failure theories, thermal effects, nonlinear material response, test methods, and micromechanics.

7490 Damage Mechanics in Metals and Matrix Composites (3) Prereq.: CE 7480 and 7485 or equivalent. Theoretical formulation and application of the different constitutive models to metals and metal matrix composites, but with consideration of other materials; analysis of isotropic and anisotropic damage in materials.

7500 Remote Sensing in Engineering Research (3) Prereq.: CE 4560. Physical measurements, characteristics of present and future sensors, and laboratory and field instrumentation; computer analysis of spectra data to include classification algorithms, enhancement, calibration, geo-referencing, overlay, and data base development; image processing; environmental applications.

7600 Transportation Engineering Data Collection Methods (3) Prereq.: EXST 7003, or CE 3600, or equivalent. Applications of sampling theory to data collections for transportation studies; determination of sample sizes; calculation of sampling error; expansion of sample survey data; survey methodologies, including interviews, counting programs, moving observer surveys, self-administered surveys. Simple panel surveys, etc.; design of survey instruments; conduct of data collection activities; data reduction techniques.

7610 Traffic Engineering Operations and Control (3) F-O Prereq.: CE 3600 or equivalent. Traffic regulations, operational problems, and engineering organization; theory and practice of application, design, operation, and maintenance of traffic control devices; methods and devices studied include signing, markings, delineation and illumination, signals and signal systems, one-way street and unbalanced-flow street operations, speed zoning, and freeway monitoring and control.

7612 Traffic Flow and Analysis (3) S-O Prereq.: CE 4600 or consent of instructor. Traffic flow theory and the techniques used to analyze traffic operations and highway capacity; theoretical aspects of traffic flow, including current research in the field; application of analytical procedures used to assess the efficiency of highway operations.

7614 Intelligent Transportation Systems (3) V Theories

and applications of Intelligent Transportation Systems (ITS).

7615 Advanced Highway Design and Traffic Safety (3) S-E Prereq.: CE 4600 or consent of instructor. Theoretical development and application of highway design principles, particularly as they relate to safety; analysis of accident statistics, diagnosis of high-hazard locations, risk management, tort liability, and design treatments to address high accident locations; design principles of traffic calming, highway-railroad grade crossings, highway work zones, and roadway cross-sections.

7621 Mass Transit Systems (3) Prereq.: CE 3600 or equivalent. Historical development, role in society, federal participation, and institutional and legislative development of transit; description of conventional and innovative forms, and characteristics of users; planning, vehicle scheduling, environmental impact and energy consumption; system costs, pricing and financing; future systems and policies.

7640 Urban Transportation Policy and Planning (3) Prereq.: CE 3600 or equivalent. Introduction to and definition of transportation planning; transportation planning context; characteristics of travel; politics, decision making and models of decision makers; systems analytic approaches to transportation planning; inventory, data management, and spatial representation of data; land use and transportation; inputs to travel forecasting.

7641 Urban Transportation Planning Models (4) S-E Prereq.: CE 7640, ECON 5600, EXST 7003, or equivalent. 3 hrs. lecture; 2 hrs. lab. Theories of travel demand modeling; conventional four-step modeling procedures; network development for highways, transit, high-occupancy vehicles; development of trip generation, distribution, and mode-choice models; highway and transit assignment procedures; use of current software for microcomputers.

7645 Transportation Systems Analysis (3) V Prereq.: CE 7610 or equivalent. Quantitative methods for analysis of transportation systems; basic network algorithms; macroscopic and microscopic traffic simulation models; dynamic traffic assignment approaches; network design problems with travel demand uncertainty; optimization concepts in transportation network modeling.

7650 Bituminous Materials and Mixtures (3) S-O Prereq.: CE 3700 or equivalent. 2 hrs. lecture; 3 hrs. lab. Properties of asphalts and tars used in bituminous materials; historical developments; properties and design of bituminous mixtures; theory and practice of asphalt concrete mix design for pavements and bases including specification and construction methods for hot-mixes and surface treatments.

7652 Transportation Engineering - Materials (3) Prereq.: CE 4670 or equivalent. Earthen materials—fills and subgrades; aggregates—types, properties, and performance; introduction to asphalt and asphaltic concrete; introduction to cement and cement concrete; variability, OC Curves; stabilization principles and practices; unsealed roads.

7655 Pavement Materials Characterization (4) F-O Prereq.: CE 3700 or equivalent. 3 hrs. lecture; 3 hrs. lab. Laboratory and field test methods for determining engineering properties of pavement materials; interpretation of test data for selecting property values; use of fundamental engineering properties in design and analysis of pavement response to environmental and vehicular loads.

7672 Pavement Management Systems (3) S-O Prereq.: CE 3600 or equivalent. Concepts of pavement, evaluation of pavement performance, serviceability concepts, structural evaluation, safety, maintenance and rehabilitation, economic considerations, selection of alternatives, and life cycle cost analysis.

7673 Pavement Maintenance and Rehabilitation (3) S-E Prereq.: CE 3700 or equivalent. Concepts of pavement maintenance and rehabilitation; pavement evaluation techniques; maintenance versus rehabilitation versus replacement alternatives.

7700, 7701 Special Topics in Civil Engineering (3,3) Prereq.: permission of department. Each course may be taken for a max. of 6 hrs. of credit. Specialized civil engineering areas.

7740 Master's Report (3) Comprehensive report with oral defense on subject approved by the major professor.

7750 Seminar (1) All graduate students are expected to enroll every semester. Only one semester hour of credit will be allowed toward degree. Pass-fail grading.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.
9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

CLASSICAL STUDIES • CLST

General education courses are marked with stars (★).

2070 Ancient World in the Cinema (3) An examination of how the cinema has interpreted the history and myths of Greece and Rome.

2080 Women in Antiquity (3) Knowledge of Greek or Latin not required. The role of women in Greek and Roman

society; readings from historical, legal, medical, and religious documents.

2090 Greek and Roman Mythology (3) Taught in English; knowledge of the Greek and Latin languages not required. Survey of the principal myths of the Greeks and Romans.

2092 Greek and Latin Word Study (3) No previous knowledge of Greek or Latin required; credit not applicable toward a major in foreign languages. Etymology of common and scientific words derived from Greek and Latin; emphasis on medical terminology.

2101 Ancient Greek Civilization (3) Knowledge of Greek and Latin languages not required. Credit will not be given for both this course and HNRS 1001-1003. Survey of literature, philosophy, art, and culture of ancient Greece from its beginnings to the death of Alexander the Great.

2102 Ancient Roman Civilization (3) Knowledge of Greek and Latin languages not required. A survey of the literature, philosophy, art, and culture of ancient Rome from its beginnings to the death of Marcus Aurelius.

3015 The Archaeology of Ancient Greece (3) Also offered as ANTH 3015. Material culture of the great civilization of ancient Greece; includes Neolithic Age, Bronze Age (Mycenaean-Minoan), Classical Age, and the Age of Alexander the Great.

★ **3020 Classical Epic in Translation (3) Knowledge of Greek and Latin languages not required.** Growth and development of the Greek and Latin epic; basic themes, the nature of a hero, and relevance to modern reader.

★ **3032 Greek and Roman Tragedy in English Translation (3) Taught in English; knowledge of Greek and Latin languages not required.** Drama of Greece and Rome; origins, major examples, and relevance; plays of Aeschylus, Sophocles, Euripides, and Seneca.

★ **3040 Greek and Roman Comedy in English Translation (3) Knowledge of Greek or Latin languages not required.** Masters of stage comedy from the ancient world, with special attention to Aristophanes, Menander, Plautus, and Terence; origins and growth of comedy as an art form; problems in staging; social nature of comedy in the ancient world.

3050 Special Topics in Classical Studies (3) Taught in English, knowledge of Greek and Latin languages not required. May be repeated for a max. of 6 sem. hrs. of credit when topics vary.

★ **3090 Comparative Mythology (3) Prereq.:** CLST 2090 or permission of instructor. Also offered as REL 3090. Introduction to myths from around the world with comparisons to Greek and Roman mythology.

COMMUNICATION DISORDERS • COMD

General education courses are marked with stars (★).

1080 Survey of Communication Science and Disorders (3) For students interested in the study/teaching of language. Anatomical, physiological, and behavioral bases of normal and disordered verbal communication.

★ **2050 Introduction to Language (3) Linguistic study of the principal interrelated levels of language structure: phonetics, phonology, morphology, syntax, and semantics; related topics such as writing systems and dialects.**

2051 Introduction to Manual Communication (4) 3 hrs. lecture; 2 hrs. lab. Basic linguistic structure, educational and cultural aspects, and reading and transmitting messages in manual communication systems; American Sign Language as well as English-based systems.

2081 Introduction to Communication Disorders (3) Required initial course for undergraduates concentrating in speech pathology and audiology. Observations in Speech and Hearing Clinic required. Processes involved in speech production; definition, description, and incidence of speech and hearing disorders; overview of the profession, including agencies, related professionals, job opportunities, publications, professional associations, and certification.

3057 Research Methods for COMD (3) Introduction to scientific literature and research methods employed in studies of human communication development and disorders across the lifespan.

4150 Phonetics (4) Prereq.: COMD 2050. 3 hrs. lecture; 1 hr. lab. Also offered as LING 4150. Principles of phonemics; articulatory phonetics; description and classification of sounds; transcription at different levels of detail; production and perception.

4153 Acoustics of Speech and Hearing (3) Prereq.: COMD 2050 or equivalent. Also offered as LING 4153. Production, transmission, and perception of speech acoustics in communication; acoustic phonetics and psycho-acoustics.

4190 Introduction to Audiology (3) Prereq.: COMD 2081, 4153. Interaction of hearing and speech, effects of hearing loss on speech and language development, types of hearing loss and evaluation processes.

4250 Anatomy and Physiology of Speech and Hearing (3) Prereq.: COMD 2050. Functional anatomy of structures associated with speech production, and reception.

4380 Speech and Language Development (4) Also offered as LING 4380. 3 hrs. lecture; 1 hr. lab. Language acquisition and behavior, language and cognitive development, verbal learning, and structural properties of speech; theories of language development in the normal child.

4381 Basic Articulation Disorders (3) Prereq.: COMD 2081, 4150. Introduction to articulatory physiology, development, etiology, evaluation and treatment of disorders.

4382 Basic Language Disorders of Children (3) Prereq.: COMD 4380 or equivalent and consent of instructor. Differential diagnosis and remediation of major language disorders of children.

4383 Basic Fluency Disorders (3) Prereq.: COMD 4381 or equivalent. For clinical practicum take COMD 4683, 4684, or 4685. Stuttering and allied disorders; emphasis on symptomatology, testing, rehabilitation and prevention.

4384 Basic Voice Disorders (3) Introduction to vocal physiology, dynamic characteristics and measurement of fundamental frequency, and differential diagnosis and management of voice disorders of functional and abuse etiologies.

4490 Audiologic Assessment (3) Prereq.: COMD 4250, 4190. Practice and application in pure-tone and speech audiometry; middle-ear measurements, differential diagnosis; physiological tests including auditory evoked potentials.

4590 Auditory Rehabilitation in Children (3) Prereq.: COMD 4153, 4190. Methods of management including modes of communication, auditory and speech-reading training, amplification issues, early identification and intervention, and educational placement.

4681 Clinical Preparation and Observation Laboratory (1) S 2 hrs. lab. For majors in communication sciences and disorders. Study of clinic rules and procedures, codes of ethics; observation of various types of therapy and evaluation.

4682 Introduction to Clinical Practicum (2) F,S For majors in communication sciences and disorders. Techniques for test administration, therapeutic methods, report writing, counseling/conferencing, behavior management.

4683, 4684, 4685 Clinical Practice: Therapeutic Techniques (1-6 each) Prereq.: COMD 4682 and credit in course work related to practicum-specific speech, language, or hearing disorder. May be taken for a max. of 8 sem. hrs. of credit each. On- and off-campus practica in speech, language, and hearing disorders.

4694 Clinical Practicum in a Medical Environment (1-4) Prereq.: consent of instructor. Speech and/or audiology practicum in a hospital or medical practitioner's office.

4750 Independent Research in Speech Science or Linguistics (1-3) May be taken for a max. of 3 hrs. of credit. Also offered as LING 4750. Readings in speech science or linguistics directed by a senior faculty member.

4751 Special Topics in Communication Disorders (3) May be taken for a max. of 6 hrs. undergraduate or graduate credit when topics vary.

4752 Survey of Adult Neurogenic Communication Disorders (3) Prereq.: COMD 2050. Biopsychosocial model of health provides structure for study of basic neuroanatomy, assessment, treatment, and social consequences of adult neurogenic communication disorders.

7151 Speech Science (3) Motor and articulatory phonetics, including palatography, acoustic phonetics, and aspects of signal detection and perception.

7152 Instrumentation and Methods for Speech and Hearing (4) Prereq.: COMD 4153 or equivalent. 3 hrs. lecture; 2 hrs. lab. Instrumentation techniques for assessment and research in speech and hearing; both theory and application are emphasized.

7153 Research Design in Communication Science and Disorders (3) Prereq.: EXST 4001, 4006 or equivalent. Empirical research design problems in speech and hearing; emphasis on measurement validity and reliability.

7191 Hearing Science (3) Prereq.: COMD 4250. Auditory transmission and processing from the outer ear to the cortical area; psychophysical phenomena germane to human audition.

7192 Hearing Aids: Electroacoustics and Fitting (3) Prereq.: COMD 7191, 7490. Electroacoustic analysis of hearing aids, earmold acoustics, selection and evaluation procedures, special devices, and problems in communication and speech processing.

7280 Neuroanatomical Bases of Speech and Hearing (3) Prereq.: BIOL 2160 and COMD 4250 or equivalent. Study of neuroanatomy and physiology of the central nervous system as it relates to sensory/motor and cognitive processes underlying speech and hearing.

7381 Language and Learning Disorders (3) Prereq.: COMD 4382. Language disorders and the communicative

aspect of language; current research and treatment models for language intervention; relationship between language and learning; emphasis on school-aged child.

7382 Voice Disorders (3) Prereq.: COMD 4384. Incidence, etiology, concomitant problems; assessment and management of vocal dysphonias, aphonia, and laryngectomies.

7383 Cleft Palate/Orofacial Disorders (3) Prereq.: COMD 4250, 4380. Orofacial anatomy, physiology, and embryology; etiology and classification of orofacial cleft; surgical, dental, speech, hearing, and psychosocial concomitants and their management.

7384 Early Communicative Intervention (3) Prereq.: COMD 4382 or equivalent. For clinical practicum, take COMD 7684 or 7685. Cognitive, social, and environmental conditions associated with "high risk" for communicative disorders; intervention approaches (prevention, evaluation, direct stimulation of child-caregiver interactions) and service delivery models (home-based, center-based).

7385 Neuropathologies of Speech (3) Prereq.: COMD 4250, 4381, and 7280; or equivalent. Physiological and anatomical bases of dysarthria, apraxia, and related speech disorders due to neuropathology in the adult population; emphasis on diagnosis, description, and clinical management.

7386 Introduction to Augmentative/Alternative Communication (3) Current issues, terminology, and technological developments; augmentative systems and system components, including various sign and symbol systems; augmentative communication assessment; intervention guidelines and procedures.

7387 Aphasia in Adults (3) Prereq.: COMD 7280 or equivalent and consent of instructor. Neurological bases of aphasia and related disorders; appropriate therapeutic methodologies.

7388 Fluency disorders II (3) Prereq.: COMD 4383 or equivalent. Etiology and nature of speech fluency disorders.

7389 Communicative Rehabilitation of Severely/Multiply Handicapped Individuals (3) Medical bases of severely handicapping conditions; alternate communication systems; assessment and intervention processes; pragmatics of interpersonal communication involving individuals who use nonspeech modalities.

7390 Industrial Audiology and Hearing Conservation (3) Prereq.: COMD 7490. Audiological practices in industry and hearing conservation programs; professional, technical, business, and legal issues.

7391 Educational and Pediatric Audiology (3) Prereq.: COMD 7490. Identification and management of the young child; social and psychological concomitants of auditory disorders; genetic hearing loss and other high risk types of impairment related to hearing.

7393 Pathology of the Auditory System (3) Prereq.: COMD 4250, 7191, 7490. Medical aspects of hearing loss including conductive, sensory, neural, and central auditory dysfunction; diseases, abnormalities, and methods of medical intervention.

7480 Measurement and Diagnosis of Communication Disorders (3) Psychological and behavioral measurement of communicative functioning and treatment planning for common speech/language disorders.

7590 Auditory Rehabilitation of Adults (3) Prereq.: COMD 7192. Special needs of the adult hearing-impaired individual (communicative, social, and vocational); hearing aid use and components of the rehabilitation process.

7683, 7684, 7685 Graduate Clinical Practicum (1-6 each) Prereq.: credit or enrollment in the course dealing with the specific disorder in which practicum is to be taken. May be repeated for credit in order to obtain the clock hours necessary for certification by the American Speech, Language, Hearing Association. Only 6 sem. hrs. of academic credit may be counted toward the degree, although all practicum hours count for professional certification. 2-8 hrs. clinic. On- and off-campus graduate practicum in specific areas (articulation, language, fluency, voice, aural rehabilitation, early intervention, diagnostic audiology, oral-facial anomalies, neurological disorders).

7741 Quantitative Measurement of Speech (3) Prereq.: completion of 12 hrs. of graduate work in communication disorders. Rationale for and clinical utility of objective measures of speech and language function; emphasis on use of types of electronic instrumentation.

7750 Special Topics in Linguistics (3) May be taken two times for credit for the master's degree and four times for the doctorate when topics vary. Also offered as LING 7750. Topics to be announced.

7752 Seminar in Linguistics (3) Also offered as LING 7752. May be taken for a max. of 6 hrs. for the master's degree and 12 hrs. for the doctoral degree when topics vary. Problems in analysis of language; emphasis on phonology and semantics.

7754 Psycholinguistics: Linguistic Perspectives (3) Prereq.: ENGL 4010 or equivalent. Also offered as PSYC 7754 and LING 7754. Theories of constituent structure and their application; discourse/semantic principles and their application; speech errors and language universals.

7755 English for Speakers of Other Languages: Methods and Materials (3) Also offered as LING 7755. Problems of teaching English to speakers of other languages; assessment and production strategies for spoken language; discourse analysis, theoretical foundations, second language acquisition, and development of a teaching syllabus; work with international students.

7756 Independent Research: Phonetics and Linguistics (1-3) Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. of credit. For advanced graduate students who wish to pursue research on special problems exclusive of thesis or dissertation. Also offered as LING 7756.

7780 Seminar in Communication Disorders (3) Prereq.: consent of instructor. May be repeated for max of 6 sem. hrs. credit when topics vary. Selected topics in communicative disorders.

7781 Independent Research: Speech Science (1-3) Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. of credit. For advanced graduate students who wish to pursue research on special problems exclusive of thesis or dissertation.

7782 Individual Research in Communication Disorders (1-3) Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. of credit. For advanced graduate students who wish to pursue research on special problems exclusive of thesis or dissertation.

7783 Dysphagia (3) Prereq.: COMD 4250, 7280.

Characteristics, assessment, and management of swallowing disorders in children and adults occurring secondary to neurological or structural deficits.

7790 Seminar in Hearing Disorders (3) Prereq.: consent of instructor. May be repeated for credit. Exploration of current professional/scientific topics in clinical practice/research.

7791 Independent Research: Audiology (1-3) Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. credit. For advanced graduate students who wish to pursue research on special problems exclusive of thesis or dissertation.

7850 Experimental Phonetics (3) Prereq.: PhD standing and permission of instructor. May be taken for a max. of 9 hrs. of credit when topics vary. Current research and modeling of the quantitative representation of human speech.

7853 Psychoacoustics (4) Prereq.: COMD 7191. 3 hrs. lecture; 3 hrs. lab. Admission to PhD program required.

Classic and contemporary readings about perception of sound; examination of psychoacoustical methods, signal detection theory, frequency processing, pitch perception, intensity processing, binaural hearing and temporal acuity.

7854 Physiological Acoustics (3) Prereq.: COMD 7191 and admission to doctoral program. Auditory system structure and function; physiological acoustics and psychoacoustic correlates.

7880 Advanced Seminar in Language Disorders (3) May be taken for max 6 sem. hrs. credit when topics vary. Theory, contemporary issues, and research related to language disorders as a method of inquiry and intervention; evaluation of research methodology.

7882 Advanced Individual Research in Communication Science and Disorders (1-6) Prereq.: admission to PhD program and consent of instructor. May be taken for a max. of 6 hrs. of credit. Research topics ancillary or extraneous to dissertation research.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

COMMUNICATION STUDIES • CMST

General education courses are marked with stars (★).

★ **1061 Fundamentals of Communication (3)** The practice of rhetoric, performance studies, and communication theory; extensive practical and performance applications of communication skills in addition to lectures and readings.

1150 Introduction to Communication Studies (3) Not a substitute for CMST 1061, 2010, 2040, 2060, or 2064. Fundamental principles and subject areas in the study of human communication.

★ **2010 Interpersonal Communication (3)** Theories and research in human communication; one-to-one interactions.

2012 Introduction to Film (4) 3 hrs. lecture; 3 hrs. lab. Nature and function of film as a mode of communication; basic language of cinema; selected films screened and studied.

★ **2040 Introduction to Performing Literature (3)** The study of literature through performance; reading, analysis, and performance of prose, poetry, and drama.

★ **2060 Public Speaking (3)** Theory and skills needed by the effective communicator and critical consumer of speech; analysis of other speakers and practice in speaking.

2061 Communication for Business and the Professions (3) For students in the professional colleges, particularly the E. J. Ourso College of Business. Communication used in

business and professional organizations; proposal presentations, group decision making, parliamentary procedure, and interviewing.

2063 Argumentation and Debate (3) Prereq.: CMST 1061 or 2060. Principles of argumentation and debate; analysis, briefing, evidence, reasoning, and refutation; debating on vital questions.

2064 Small Group Communication (3) Aspects of group leadership; group discussion and the problems of communication in human relations.

2200 Practicum in Communication Studies (1-3) Prereq.: consent of instructor. May be taken for a max. of 3 sem. hrs.; however, no more than a total of 3 sem. hrs. in CMST 2200 and CMST 4200 may be taken for undergraduate credit. Pass-fail grading. Practical experience in major interdepartmental activities outside the classroom under direct faculty supervision.

2862 HONORS: Contemporary Public Address (3) Effectiveness of public address in contemporary society; limitations on free speech; influence of mass communications on public address; rhetorical practices in politics, education, religion, business, and minority and pressure groups.

3012 History of Film (4) 3 hrs. lecture; 3 hrs. lab. Historical, cultural, artistic, and technological development of the film industry; selected films screened and studied.

3013 Topics in Film Genres (4) 3 hrs. lecture; 3 hrs. lab. May be taken for a max. of 8 sem. hrs. of credit when topics vary. Cultural history, structure, rhetoric, and performance of particular film genres.

3040 Performance Composition (3) Prereq.: CMST 2040. Study of the rhetorical and aesthetic elements of solo and group performance, including performances of literature, cultural performances, and experimental performances.

3041 Performance in Everyday Life (3) Communication-centered study of performance and theatricality in daily life.

3060 Advanced Public Speaking (3) Prereq.: grade of "B" or better in CMST 1061 or 2060. Refined development in platform speaking.

3106 Communication and Power (3) How power is created, maintained, and subverted through the strategic use of discourse.

3107 Rhetoric of the Contemporary Media (3) Various forms of media (television, pulp novels, pop music); their promotion of cultural values and modes of conduct; study of major rhetorical critics and theorists.

3113 Conversation (3) Analysis of verbal processes in conversation; emphasis on theory and research concerning language, messages, and social interaction.

3114 Communication Research (3) Techniques and procedures in communication research; topic development, research design, data collection, data analysis; examination of recent research in communication.

3115 Communication and Gender (3) Prereq.: CMST 2010 or equivalent. Gender differences, sex roles, and sexual stereotypes in communication.

3118 Intercultural Communication (3) Prereq.: CMST 2010 or equivalent. Theories and research of how people of different cultures communicate; emphasis on developing a critical sensitivity and foundations for increased effectiveness appropriate to a multicultural society.

3167 Rhetoric and Civilization (3) Role of oratory in the formation, mobilization, and destruction of human communities from ancient to modern times.

3168 Rhetoric of Propaganda (3) Prereq.: CMST 2060, 2063, or 2862. Common persuasive strategies employed in propagandistic discourse.

3169 The Rhetoric of Social Movements (3) Prereq.: CMST 2063, 2862, 3106, 3107, or 3167. Persuasive strategies used to build social identities and collectively agitate for social change.

3210 Computer Mediated Communication (3) Prereq.: CMST 2010. Theories of communication as they apply to communication by computerized means. The effects of CMC on daily human activity, interpersonal relationships, and work life.

3300 Rhetorical Criticism (3) Prereq.: CMST 2060. History and practice of criticism as a means of inquiry in rhetorical studies. Theoretical and methodological underpinnings of major schools of criticism examined.

3810 Independent Study (1-3) May be taken for a max. of 3 hrs. of credit on a communication topic not duplicated in regular course offerings. Course may be taken for a max. of 6 hrs. of credit in the major.

3900 Selected Topics in Communication Studies (3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary. Consult Schedule of Classes for current offering.

4012 Communication and Relationships (3) Prereq.: CMST 2010 or equivalent. Survey of theories of interpersonal communication and misunderstandings in

relational development and deterioration; more effective communication.

4100 Political Communication (3) Factors and strategies in contemporary political communication in the U.S.; emphasis on electronic communication, candidates and images, campaign management, speech making, and advertising; study of recent and current elections.

4101 Organizational Communication (3) *Prereq.: CMST 2010.* Theories surrounding how people communicate within the organizational setting, as well as how communication relates to the process of organizing; examines relevant theories and research.

4107 Communication as Culture (3) *Prereq.: CMST 3106, 3107, or 3167.* Creation, maintenance, and alteration of cultural norms, institutions, and values through both mass mediated spectacle and intimate communication ritual.

4111 Intrapersonal Communication (3) *Prereq.: CMST 2010.* Examination of mental imagery, imagined interaction, and listening across a variety of contexts.

4112 Health Communication (3) Communication in the health care context; application to pragmatic problems in the healthcare industry; critical examination of health messages in popular culture.

4113 Communication and Leadership in Teams (3) Analysis of communication processes in groups and teams; includes examination of theories and research findings; addresses individual and team participation, leadership, and decision-making skills.

4114 Contemporary Theories of Communication (3) Current methods and theories of human communication; research literature; behavioral antecedents and consequences of messages and their variations; how messages interact with communicators to produce behavioral outcomes.

4118 Modeling Communication Within Marital and Family Relationships (3) *Prereq.: CMST 2010. Also offered as SOCL 4402.* Role of communication within marriages and other family arrangements.

4119 Nonverbal Communication (3) *Prereq.: CMST 2010 or equivalent.* Nonverbal message systems such as kinesics and proxemics; relationship between nonverbal and verbal communication.

4140 Analysis and Performance of Poetry (3) *Prereq.: CMST 2040.* Advanced study of selected forms, styles, and genres of oral and written poetry through solo and group performance.

4141 Analysis and Performance of Narrative (3) *Prereq.: CMST 2040.* Advanced study of selected novels, short stories, and oral narratives through solo and group performance; stylistic and rhetorical analyses.

4142 Selected Topics in Performance Studies (3) *Prereq.: CMST 2040 and 3040 or equivalent. May be taken for a max. of 6 hrs. of credit when topics vary.*

4143 Performance of Southern Fiction (3) *Prereq.: CMST 2040 or equivalent.* Study of selected texts of contemporary southern fiction through solo and group performance; literary criticism of texts performed; relevant narrative and performance theory.

4144 Performance Art (3) *Prereq.: CMST 2040 and 3040 or equivalent. Also offered as THTR 4144.* History, theory, criticism, and practice of 20th century avant-garde performance and performance art.

4145 Group Performance (3) *Prereq.: CMST 2040 and 3040 or equivalent.* Theory and techniques of adapting and staging nondramatic literature and other materials for group performance; directing for Reader's Theatre, Chamber Theatre, Story Theatre, and other forms.

4147 Body Performance Culture (3) *Prereq.: CMST 2040 and 3040 or equivalent.* Theories and uses of the body as a site of cultural production and communication in everyday life and more formal performance events.

4150 Tourism as Communication & Performance (3) Communication and performance-centered study of contemporary tourism and travel.

4160 Persuasive Communication (3) *Prereq.: CMST 1061, 2060, 2063, or equivalent.* Nature of persuasive speaking.

4164 Advanced Argumentation (3) *Prereq.: CMST 2063 or 4160 or equivalent.* Argumentation in different types of speaking situations; trends in argumentation theory; argumentation in practice.

4165 History and Criticism of American Public Address (3) *Prereq.: CMST 2060 or 2063 or 4160.* American public address from colonial times to the present; speeches of outstanding American statesmen, lawyers, and clergymen and sources of their effectiveness.

4166 History and Criticism of British Public Address (3) *Prereq.: CMST 1061 or 2060, 2063, or 4160.* British public address from the 18th century to the present; speeches of outstanding British statesmen from Pitt to Churchill.

4167 Contemporary Rhetorical Theory (3) *Prereq.: CMST 1061 or 2060 or 4160 or equivalent.* Developments in rhetoric from contemporary theoretical and critical perspectives; key concepts in the philosophy of rhetoric.

4168 Rhetoric and the Arts (3) *Prereq.: CMST 2040, 3041,*

3106, 3107, or 3167. The arts as a means of transforming experience and influencing social change.

4169 Visual Rhetoric (3) *Prereq.: CMST 2060, 2063, or 2862.* Methodological approaches useful in understanding how images communicate messages and make arguments.

4200 Practicum in Communication Studies (1-3) *Prereq.: consent of instructor. May be taken for a max. of 3 sem. hrs. credit; however, no more than a total of 3 sem. hrs. of CMST 2200 and CMST 4200 may be taken for undergraduate credit. Pass-fail grading.* Practical experience in major interdepartmental activities outside the classroom under direct faculty supervision.

4312 Topics in Critical Media Theory and Practice (3) *Prereq.: CMST 2012, 3012, 3107, or consent of instructor. May be taken for a max. of 6 sem. hrs. of credit when topics vary.* Topics such as "Basic Concepts of Cinema," "Aesthetics of Film and Video," and "Cyberculture Theory."

4971 Special Topics in Mass Communication (3) *Prereq.: consent of instructor. See MC 4971.*

7900 Introduction to Graduate Study in Communication Studies (3) *Required of all master's students and of doctoral students on advice of their major professors.*

7901 Seminar in Pedagogy for the Communication Classroom (1) Information and support for first time college teachers; teaching skills; core teaching values and instructional strategies.

7903 Research Writing in Communication Studies (3) *Required of all graduate students in Communication Studies.* Professional development seminar for graduate students in Communication Studies. Emphasis on refining research and writing skills for careers in the discipline.

7910 Seminar in Interpersonal Communication Theory (3) *Prereq.: CMST 4012 or equivalent. May be taken for a max. of 12 hrs. credit when topic vary.* Current theoretical approaches to interpersonal communication, including developmental approaches, cognitive and relational theories.

7913 Seminar: Communication Theory (3) *May be taken for a max. of 6 hrs. of credit when topics vary.* Foundational and contemporary theories in communication.

7915 Seminar: Research in Communication Theory (3) *Prereq.: CMST 4114 or equivalent. May be taken for a max. of 9 sem. hrs. credit.* Research literature on advanced topics in communication theory.

7923 Seminar in Qualitative Research Methods in Communication Studies (3) *May be taken for a max. of 6 sem. hrs. of credit when topics vary.* Theoretical and practical considerations of current methods of qualitative research in the discipline.

7940 Performance Theories and Methods (3) Survey of theories and methods of twentieth and twenty-first century performance practices in western cultures.

7941 Seminar: Studies in the History of Performance (3) Historical development of select Western performance practices outside the institution of theatre; methods of historical research in performance studies.

7943 Seminar: Performance and Culture (3) Theories and research exploring the relations between performance and culture central to the field of Performance Studies. Emphasis on two main trajectories: performance as a subject of cultural inquiry and performance as a method of cultural invention.

7945 Seminar: Contemporary Theories and Research in Performance Studies (3) *May be taken for a max. of 12 hrs. of credit when topics vary.* Topics related to solo and group performance of literature; performance theory and criticism; interrelationships of performance and culture; experimental performance forms; qualitative research methods.

7946 Theory and Performance of Narrative Discourse (3) *Prereq.: CMST 4141, 4142, or equivalent.* Narrative theory in literature and performance; rhetoric of narrative discourse.

7961 Seminar: Evolution of Rhetorical Theory, Classical Period (3)

7962 Seminar: Rhetorical Criticism (3) *Prereq.: consent of instructor.* Types of speech criticism, criteria, and measures of effectiveness of public address.

7963 Seminar on Southern Oratory (3) *Prereq.: CMST 4165 and 7962.* Oratory of the South from about 1860 to the present; significant speakers of a given historical period (students select period studied).

7964 Seminar: Evolution of Rhetorical Theory, British and American (3) Developments in rhetorical theory in Britain and America from about 1529 to the present; discussion of major works by Campbell, Blair, Whately, and Kenneth Burke.

7966 Problems in Rhetorical Theory, Criticism, and History (3) *Prereq.: at least 12 hrs. (four courses) in public address. May be taken for a max. of 12 sem. hrs. of credit when content varies.* Selected problem that goes beyond present advanced course offerings in public address; topic to be announced.

7967 Development of Contemporary Rhetorical Theory (3) Pivotal questions in contemporary theory from I. A. Richards through postmodernism; future of rhetorical theory and its relationship to the humanities.

7968 Rhetoric and Public Culture (3) Scope and function of rhetoric in formation and dissolution of publics and public opinion; the reciprocal influence of rhetoric and culture.

7969 Visual Culture (3) *May be taken for a max. of 6 sem. hrs. of credit when content varies.* Intellectual genealogies, theories of the visual, and problems in a visual culture.

7976 Rhetoric and Aesthetics (3) The relationship between form and function in rhetorical discourse; the constitutive nature of aesthetics in language and the arts.

7999 Independent Research in Communication Studies (1-3) *Prereq.: consent of instructor and approval of department chair. May be taken for a max. of 6 sem. hrs. credit.* For advanced graduate students to pursue research on special topics.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

COMPARATIVE BIOMEDICAL SCIENCES • CBS

7001 Seminar: Comparative Biomedical Sciences (1) **F,S** *May be taken for a max. of 8 hrs. of credit.* Reports and discussions on topics of current interest in various scientific disciplines.

7002 Research Techniques in Comparative Biomedical Sciences (1-4) **F,S,Su** *May be taken for a max. of 8 hrs. of credit when topics vary.* Specialized research techniques related to selected scientific disciplines in the department.

7003 Special Topics in Comparative Biomedical Sciences (1-4) **F,S,Su** *May be taken for a max. of 8 hrs. of credit when topics vary.* Specialized coverage of a variety of topics related to selected scientific disciplines in the department.

7104 Biomedical Cell and Molecular Biology (3) **F,S** *Prereq.: consent of instructor.* Essential concepts of cell and molecular biology; cellular ultrastructure and function; basic genetic mechanisms in normal and transformed cells; methods of gene analysis; proteomics; molecular therapy and molecular approaches to disease diagnosis.

7105 Ultrastructural Cytology (3) **S** *Prereq.: consent of instructor. 2 hrs. lecture; 2 hrs. lab.* Fine structure of animal cells and cell products; relationships of ultrastructure to function; interpretation of cytochemical reactions.

7106 Biomedical Electron Microscopy (4) **F,S** *Prereq.: consent of instructor. 1 hr. lecture; 8 hrs. lab.* Preparation of tissues including biopsies for transmission and scanning electron microscopy; operation of SEMs, TEMs, and ancillary equipment.

7108 Critical Analysis in Molecular Biology/Medicine (3) **F** Instruction/participation; formal presentations of research data. Discussion and presentations are drawn from landmark biomedical publications.

7109 Advanced Macroscopic Anatomy (1-3) *Prereq.: consent of instructor. May be repeated for credit when topics vary.* Specialized dissection of one or more of the following: dog, horse, ruminants, laboratory, exotic, or avian species.

7112 Advanced Microscopic Anatomy (1-3) *Prereq.: consent of instructor. May be repeated for credit when topics vary.* Comparative or systemic microscopic anatomy of selected organs or organ systems of domestic, laboratory, or exotic species.

7603 Clinical Toxicology (3) **S** *Prereq.: consent of instructor.* Pathophysiology of various clinically important toxicants; prevention, diagnosis, and treatment of common intoxications in domestic animals.

7614 Central Nervous System (3) **V** *Prereq.: CBS 7631 or equivalent.* Neurotransmitter mechanisms, chemistry, and anatomical distribution; neuropharmacology; synaptic physiology and anatomy of selected brain regions; central nervous system diseases.

7615 Pulmonary Pharmacology (3) **V** *Prereq.: CBS 7630.* Mechanisms of action and applications of various drugs used in respiratory disorders.

7617 Autonomic Nervous System (3) *Prereq.: CBS 7631 or equivalent.* Structure, physiology, pharmacology, and diseases of the autonomic nervous system.

7622 Fundamentals of Carcinogenesis (3) **F,S** *Prereq.: CBS 7603 or consent of instructor. Same as BIOL 7622 and ENVV 7622.* Identification and chemical structural features of carcinogens; role of free radicals in biology and pathology; molecular mechanisms in chemical carcinogenesis, including pathways for metabolic activation, DNA adduction, somatic cell mutagenesis, and oncogene activation.

7627 Mechanisms of Toxicity in Aquatic Animals (4) **F-V** *Prereq.: organic chemistry, biochemistry, and physiology recommended.* Examination of mechanisms of contaminant toxicity in context with the unique physiological, biochemical, and structural features of

aquatic animals and the environment.

7628 Biomedical Physiology I (3) F,S *Prereq.: consent of instructor.* Physiological mechanisms underlying the cardiovascular and gastrointestinal systems of domestic species.

7629 Biomedical Physiology II (3) F,S *Prereq.: consent of instructor.* Physiological mechanisms underlying the respiratory and renal systems of domestic species; emphasis on system control.

7630 Biomedical Pharmacology (4) F,S *Prereq.: vertebrate physiology, biochemistry, or equivalent; consent of instructor.* 3.5 hrs. lecture; 0.5 hrs. lab. Comparative study of the pharmacodynamics, disposition, kinetics, and therapeutic utility of drugs in animals.

7631 Biomedical Neuroscience (3) F, S *Prereq.: consent of instructor.* 2.5 hrs. lecture; 0.5 hrs. lab. Physiological and anatomical mechanisms underlying the nervous system.

COMPARATIVE LITERATURE • CPLT

General education courses are marked with stars (★).

★ **2201 Introduction to World Literary Traditions (3)** *Also offered as ENGL 2201.* Study of the world's most influential literary classics in Western and non-Western traditions, from beginnings to 1650; emphasis on reading and writing about literature.

★ **2202 Introduction to Modern World Literature (3)** *Also offered as ENGL 2202.* Overview of the literature of the world from 1650 to the present day; introduction of the concept and theory of world literature.

7010 Research Methods and Bibliography (3) Instruction in methods of research; specific projects in bibliography geared toward scholarship in comparative literature.

7020 History and Theory of Criticism (3) Historical survey of major works in literary theory from the classical through the modern period designed to ground subsequent work in criticism.

7120 Topics in Theory of Criticism (3) *May be taken for a max. of 9 hrs. of credit when topics vary.* Study of a particular school of critical thought as it applies to specifically comparative literary scholarship.

7130 Topics in Comparative Literature (3) *May be taken for a max. of 9 hrs. of credit when topics vary.* Basic techniques of studying a literary topic through the comparative method; examples taken from different national literary traditions.

7140 Topics in the Interdisciplinary Study of Literature (3) *May be taken for a max. of 9 hrs. of credit when topics vary.* Relationship between literature and other domains, such as art, religion, and film.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Independent Study (1-3) *May be taken for a max. of 3 hrs. in the master's program and 9 hrs. in the doctoral program.*

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

COMPUTER SCIENCE • CSC

General education courses are marked with stars (★).

1100 Computers in Society (3) *Prereq.: credit in MATH 1021 or registration in MATH 1023.* 2 hrs. lecture; 2 hrs. lab. *Credit will not be given for both this course and ISDS 1100 or LIS 2001 or EXST 2000.* Introduction to computers, their applications, and impact on people and social institutions; the Internet, E-mail, news groups, ftp, telnet, World Wide Web, multimedia, word processing, spreadsheets, databases.

1200 Ethics in Computing (1) *For majors only.* Introduction to ethics theory, ethical decision-making as it relates to the computing professional, licensing, intellectual property, conflicts of interest, freedom of information and privacy, security.

★ **1240 Statistics and Graphics with MATLAB (3)** *Prereq.: MATH 1021 or placement in MATH 1022, 1023, 1431, 1550 or 1551.* 2 hrs. lecture; 2 hrs. lab. *Credit will not be given for both this course and CSC 1248 or 2262 or 2533.* *Not for degree credit for computer science majors.* Introduction to MATLAB programming with applications in statistics and graphics.

1248 Programming With Applications in Statistics (3) *Prereq.: MATH 1021 or placement in MATH 1022 or 1023 or 1431 or 1550.* *Credit will not be given for both this course and CSC 1240 or 1250 or 1253 or 1350 or ISDS 3107.* *Not for degree credit for computer science majors.* Computer programming using a high level language with applications in elementary statistics.

1250 Introduction to Programming (3) *Prereq.: credit or registration in MATH 1022 or 1023 or 1431 or 1550.* *Credit will not be given for this course and CSC 1248 or 1253 or 1350 or ISDS 3107.* Fundamentals of problem solving,

program design, algorithms, and programming using a high-level language.

1253 Computer Science I with C++ (3) *Prereq.: credit or registration in MATH 1550 or credit in MATH 1431.* *Credit will not be given for both this course and CSC 1248 or 1250 or 1350 or ISDS 3107.* Fundamentals of algorithm development, program design, and structured programming using an object-oriented language.

1254 Computer Science II with C++ (3) *Prereq.: CSC 1253, MATH 1550 or registration in MATH 1435.* *Credit will not be given for both this course and CSC 1351.* Develops solutions to problems using an object-oriented approach and emphasizes the concepts of recursion; dynamic memory; data structures (lists, stacks, queues, trees); exception handling.

1350 Computer Science I for Majors (3) *Prereq.: credit or registration in MATH 1550.* *Credit will not be given for both this course and CSC 1248 or 1250 or 1253 or ISDS 3107.* Fundamentals of algorithm development, program design, and structured programming using an object-oriented language.

1351 Introduction to Computer Science II for Majors (3) *Prereq.: credit in CSC 1350 and MATH 1550.* *Credit will not be given for both this course and CSC 1254.* Develops solutions to problems using an object-oriented approach and emphasizes the concepts of recursion; dynamic memory; data structures (lists, stacks, queues, trees); exception handling.

1970 Introduction to the UNIX Operating System (2) 1 hr. lecture; 2 hrs. lab. *Laboratory projects are assigned.* Features of the UNIX Operating system kernel, shell commands and scripts, text processing, electronic mail, and the INTERNET.

2252 Assembly Language Programming (3) *Prereq.: credit or registration in CSC 1254 or 1351, or equivalent background.* Fundamentals of machine function; basic concepts of programming at the machine level; assembly language; machine representation of information, machine language, addressing techniques, program linkage, macroprogramming, and assembler construction.

2259 Discrete Structures (3) *Prereq.: MATH 1552 and CSC 1254 or 1351.* Set algebra including mappings and relations; algebraic structures including semigroups and groups; elements of the theory of directed and undirected graphs; Boolean algebra and propositional logic; these structures applied to various areas of computer science.

2262 Numerical Methods (3) *Prereq.: MATH 1552 and CSC 1254 or 1351.* *Credit will be given for only one of the following: CSC 1240, 2262, 2533 or IE 2060.*

Computer-oriented methods for solving numerical problems in science and engineering; numerical solutions to systems of simultaneous linear equations, nonlinear algebraic equations (root solving), differentiation and integration, ordinary differential equations, interpolation, and curve fitting.

2270 COBOL Programming and Business Data Processing Systems (3) *Prereq.: credit in a course in computing.* *Primarily for students in computer science and related disciplines.* COBOL programming; its use in business data processing systems.

2280 Computer Organization (4) *Prereq.: CSC 2252.* 3 hrs. lecture; 2 hrs. lab. *Credit will not be given for both this course and CSC 3501.* Basic digital circuits; Boolean algebra and combinational logic, data representation and transfer, and digital arithmetic; digital storage and accessing, control functions, input-output facilities, system organization, and reliability; description and simulation techniques; features needed for multiprogramming, multiprocessing, and real-time systems; other advanced topics and alternate organizations.

2533 Introduction to Engineering Computation (3) *Prereq.: MATH 1550.* 2 hrs. lecture; 3 hrs. lab. *Also offered as ME 2533.* *Credit will not be given for both this course and CSC 1240 or 2262.* Problem solving techniques and structured programming tools for engineering synthesis and analysis; application of symbolic solvers and technical computing toolkits.

2700 Special Topics in Computer Science (1-3) *Prereq.: CSC 1254 or 1351 or permission of department.* *May be taken for a max. of 6 hrs. of credit when topics vary.* *Total credit earned in CSC 2700 and 4700 should not exceed 9 hrs.* Specialized areas of current interest in computer science.

3102 Advanced Data Structures and Algorithm Analysis (3) *Prereq.: CSC 1254 or 1351 and credit or concurrent enrollment in CSC 2259 or EE 2720.* Description and utilization of formal ADT representations, especially those on lists, sets, and graphs; time and space analysis of recursive and nonrecursive algorithms, including graph and sorting algorithms; algorithm design techniques.

3380 Object Oriented Design (3) *Prereq.: CSC 1254 or 1351.* Advanced object oriented software development; emphasis on the use of the unified modeling language as a design tool.

3501 Computer Organization and Design (3) *Prereq.: CSC 2259.* *Credit will not be given for both this course and CSC 2280 or EE 3750 or 3755.* Computer arithmetic, design of

high-speed adders and multipliers, CPU concepts, instruction fetching and decoding, hardwired control, microprogramming control, main memory, I/O organization, assembly language programming techniques, CPU instruction sets and addressing modes.

3991 HONORS: Undergraduate Research in Computer Science (3) *Prereq.: CSC 3102; consent of department; admittance to Upper Division Honors Program.* Individual research on problems in computer science.

3992 HONORS: Undergraduate Thesis in Computer Science (3) *Prereq.: CSC 3991; consent of department; admittance to Upper Division Honors Program.* Writing and formal defense of a research thesis in computer science. Defense committee of three faculty members must be approved by department.

3999 Independent Undergraduate Research (1-3) *Prereq.: consent of department chair.* *May be taken for a max. of 4 hrs. of credit.* Individual readings, conferences, and program development in computer science.

4101 Programming Languages (3) *Prereq.: CSC 3102.* Principles of programming language design; specification of syntax and semantics; underlying implementation of block structured languages; dynamic memory allocation for strings, lists, and arrays; imperative versus applicative programming; logic programming; modern programming languages.

4103 Operating Systems (3) *Prereq.: CSC 3102.* Design techniques, process management, processor scheduling; deadlocks, memory management, secondary memory management, file management; I/O systems, Unix systems.

4304 Systems Programming (3) *Prereq.: CSC 4103.* Batch process systems programs, their components, operating characteristics, user services and limitations; implementation techniques for parallel processing of input-output and interrupt handling; overall structure of multiprogramming systems on multiprocessor hardware configurations; addressing techniques, core management, file system design and management, system accounting, and other user-related services; traffic control, interprocess communication, design of system modules, and interfaces; system updating, documentation, and operation.

4330 Software Systems Development (3) *Prereq.: CSC 3102, 3380.* Software requirements analysis; design representation, programming methodologies; verification, validation, maintenance, and software planning.

4351 Compiler Construction (3) *Prereq.: CSC 4101 or equivalent.* Program language structures, translation, loading, execution, and storage allocation; compilation of simple expressions and statements; organization of compiler including compile-time and run-time symbol tables, lexical scan, syntax scan, object code generation, error diagnostics, object code optimization techniques, and overall design; use of compiler writing languages and bootstrapping.

4356 Interactive Computer Graphics (3) *See ME 4573.*

4357 Applied Interactive Graphics and Computer-Aided Design (3) *See ME 4583.*

4362 Advanced Numerical Methods (3) *Prereq.: CSC 2262 or 2533 or equivalent.* Advanced treatment of numerical computation in practice; methodology for enhancing the effectiveness, accuracy, and efficiency of traditional numerical techniques; emphasis on extrapolation.

4370 Software Modeling Techniques (3) *Prereq.: CSC 3370 or 3390 or 4330.* Examination of modern modeling techniques for complex/high quality software including static/dynamic software models and project management models.

4402 Introduction to Database Management Systems (3) *Prereq.: CSC 3102.* Network, hierarchical, and relational, and entity-relationship models; data definition, manipulation languages, and conversion among these models; relational database design theory, efficient query evaluation, elementary query optimization techniques.

4444 Artificial Intelligence (3) *Prereq.: CSC 3102.* *Theorem proving and inferencing techniques, production systems, knowledge representation, approximate reasoning, nonmonotonic reasoning, natural language understanding, scene analysis, planning, game playing, and learning.*

4446 Fuzzy Sets and Applications (3) *Prereq.: permission of instructor.* Basic concepts of fuzzy sets, fuzzy operations, fuzzy logic, and fuzzy rule-based systems; applications to engineering and decision making; emphasis on systematic methodology to construct fuzzy applications; software and simulations tools in solving real-world problems using fuzzy-set techniques.

4501 Computer Networks (3) *Prereq.: CSC 4103.* Introduction to local, metropolitan, and wide area networks using the standard OSI reference model as a framework; introduction to the Internet protocol suite and network tools and programming; discussion of various networking technologies.

4601 Computer and Network Security (3) *Prereq.: CSC*

3102. Information security's role, threats, elements of cryptography; protocols, architectures, and technologies for secure systems and services.

4602 Fundamental Computer Science for Teachers (3) Prereq.: ELRC 4507 (or prior programming experience) and credit in an education methods course numbered 3000 or above. Also offered as ELRC 4512. Advanced programming techniques; emphasis on structured programming, software and hardware organization, data structures, graphics, and other topics to prepare students to teach computer science in secondary schools.

4700 Special Topics in Computer Science (3) Prereq.: CSC 3102 or permission of department. May be taken for a max. of 9 cr. hrs. when topics vary. Total hrs earned in CSC 2700 and 4700 should not exceed 9 hrs. Specialized areas of current interest in computer science.

4890 Introduction to Theory of Computation (3) Prereq.: CSC 2259. Introduction to finite automata, regular expressions and languages; push-down automata and context-free languages; selected advanced language theoretical topics; emphasis on technique.

4999 Advanced Independent Undergraduate Research (1-3) Prereq.: consent of department chair. May be taken for a max. of 4 hrs. of credit. Individual readings, conferences, and program development in computer science.

6100 Advanced Elements of Computer Science for Teachers (3) Prereq.: computer science programming course or knowledge of a programming language required. Advanced programming techniques using a high-level, structured language; data structures and computer systems software.

7080 Computer Architecture (3) Prereq.: CSC 7002 or equivalent. Background in electronics not required. Functional architecture of modern digital computer systems; detailed description of instruction set implementation with monoprocessor and multiprocessor structures; design and analysis of instruction sets and control structures.

7101 Programming Language Structures (3) Prereq.: CSC 4101. Advanced study of data specification, storage management, and control in programming languages; includes coverage of formal specification languages; languages for concurrent processing; languages that support program verification techniques; and in-depth study of applicative languages.

7103 Advanced Operating Systems (3) Prereq.: CSC 4103. Concurrent programming; shared memory, communication, and operation-oriented models; concurrent, distributed, and network programming; distributed operating systems; synchronization and deadlock detection in distributed systems.

7120 Performance Evaluation of Computer and Communication Systems (3) Prereq.: CSC 4103. Modeling techniques, specification of queuing systems, product form networks, algorithms for performance networks, operational analysis, performance bound techniques, blocking and priority networks.

7135 Software Engineering (3) Prereq.: CSC 4330 or equivalent. Formal specification techniques, design techniques, abstraction, information hiding, modularity, software testing, automated testing tools, maintainability factors, and cost estimation.

7200 Theory of Computation I (3) Prereq.: CSC 4890. Algorithms, computability, decidability, enumerability; formal replacements and Church's thesis; Turing machines, primitive recursive functions, u-recursive functions; undecidable predicates.

7201 Theory of Computation II (3) Prereq.: CSC 7200. Theory of computation; problems for complexity classes, NP, P, PSPACE, and Nlog; characterization of polynomial time by alternating log space Turing machines and log space Turing machines by auxiliary pushdown stores; time-space trade-offs and combinatorial problems.

7235 Advanced Software Engineering (3) Prereq.: CSC 7135. Formal testing, validation and verification techniques; in-depth study of formal specification languages and techniques.

7300 Algorithm Design and Analysis (3) Characteristics of an algorithm; problems of algorithm existence; the design, implementation, and complexity of algorithms; algorithm case studies.

7333 Machine Learning (3) Prereq.: CSC 4444. Fundamental principles of machine learning; inductive learning; explanation-based learning; computational approach to Boolean function learning; learning formal languages and recursive theories; neural network learning and genetic algorithms; applications of machine learning.

7351 Advanced Compiler Design Theory (3) Prereq.: CSC 4351 or equivalent. Automatic generation of LL (1), LR (1), LALR (1) parsers, syntax directed translation of high-level control structures, error recovery, optimization of branching, local code optimization using directed acyclic graphs, loop optimization, global data flow analysis, and object-code optimization.

7370 Graph Algorithms (3) Prereq.: MATH 4171 or

equivalent. Graph layout algorithms; networks; application of network flow techniques; polynomial time algorithms and NP-completeness; dynamic graph drawing.

7373 Algorithms for Parallel and Distributed Computing (3) Prereq.: CSC 7300 or equivalent. Parallel algorithms for searching, sorting, matrix processing, network optimization, and other problems; implementation and efficiency measures of the algorithms on different machines, and VLSI systolic arrays.

7374 Computational Models for Mobile Robots (3) Prereq.: CSC 7300. Computational tools for design, analysis, and implementation of algorithms for robotic applications; existing computational paradigms, constraint representation and real-time modeling for robotic vision; image understanding, path planning, autonomous navigation and sensor-fusion problems for mobile robots.

7375 Robot Vision (3) Prereq.: CSC 3102 or equivalent, and CSC 7300. Computational aspects of vision; utilization of techniques from computational geometry, combinatorics, probability theory, and artificial intelligence; visual recognition and classification.

7380 Computational Geometry (3) Prereq.: CSC 7300 or equivalent. Data structures and algorithm design techniques for geometric problems; geometric searching; convex hulls; Voronoi diagrams; proximity; intersections of geometric objects; applications of computational geometry.

7381 Computational Aspects of VLSI CAD (3) Prereq.: CSC 7300 or equivalent. Overview of VLSI design and fabrication process; abstract model of VLSI; combinatorial optimization algorithms; circuit partitioning; placement and floor planning; global routing; detailed routing; and circuit compaction.

7402 Data Base Management Systems (3) Prereq.: CSC 4402. Implementation of database systems (physical model and its mapping to conceptual model); data structures and their influence on performance, concurrency control, distributed databases; advanced database systems.

7420 Parallel and VLSI Computation (3) Prereq.: CSC 3102. Theoretical aspects of the design and analysis of algorithms for parallel computation; physical implementation of VLSI chips.

7442 Data Mining and Knowledge Discovery (3) Prereq.: CSC 7333. Introduction to data mining and knowledge discovery in databases; data cleaning, statistical techniques, association rule learning; time series and spatial data mining algorithms, clustering algorithms, data visualization.

7443 Scientific Information Visualization (3) Prereq.: CSC 7300 or equivalent. Study of computer visualization principles, techniques, and tools used for explaining and understanding information; includes visualization algorithms, techniques, and applications.

7444 Advanced Artificial Intelligence (3) Prereq.: CSC 4444. Temporal and nonmonotonic logic; truth maintenance systems; probabilistic reasoning; deductive databases; automated learning, planning, and tutoring; story understanding; structure of domain dependent expert systems.

7446 Soft Computing (3) Prereq.: CSC 4446 or permission of instructor. Interplay of three paradigms in soft computing; fuzzy sets and fuzzy logic, neural computing, and evolutionary programming; applications in image processing, diagnosis and classification, decision making, and other areas; software and simulation tools for problem solving in the soft-computing arena.

7450 Programming and Performance Evaluation of Parallel Computers (3) Prereq.: CSC 3102 or equivalent and CSC 7300. Parallel programming techniques; message passing and process synchronization performance evaluation; prediction of parallel architectures and algorithms, scalability analysis.

7481 Information Retrieval Systems (3) Prereq.: CSC 3102 or equivalent. Also offered as LIS 7610. Topics include commercially available retrieval systems, text content analysis, query processing models and current research problems.

7500 System Modeling and Computer Simulation (3) Prereq.: CSC 2263 or equivalent. Construction and use of mathematical and computer models; parameter estimation; compartmental models; simulation techniques; applications of simulations; examples and case studies from physical, social, and life sciences, engineering, business, and information sciences.

7501 Advanced Computer Networks (3) Prereq.: CSC 4501. Design and analysis of computer networks; routing algorithms and protocols; switch and router architectures; traffic flow management and error control; scheduling and quality of service; modeling and performance evaluation; queuing theory applied to computer networks; selected issues in high-speed network design.

7502 Advanced Computer and Network Security (3) Prereq.: CSC 4601. Secret sharing; secret sharing homomorphism; verifiable secret sharing; electronic voting; advanced cryptography; anonymity on the net; wireless security.

7540 Distributed Systems (3) Prereq.: CSC 4103. Networking and inter-networking; client-server model; remote procedure calls; processes and processors in distributed systems; distributed file systems; transaction-processing techniques; and distributed systems for high performance computing.

7560 Computational Methods (3) Prereq.: CSC 4362 or equivalent. Synthesis, implementation, and analysis of numerical algorithms; algorithm concept introduced in context of abstract schema.

7600 High Performance Computing I (3) Prereq.: CSC 4362 or consent of instructor. Fundamental computational techniques required for scientific computing; important algorithms for parallel computation; high performance computing.

7601 Design Issues in High-Speed Networks: Multicast, Pricing and Control (3) Prereq.: CSC 4501. Multicasting architectures, protocols, and applications; ATM and Internet solutions; scalable reliable multicast; distributed sensor networks; Internet pricing and economics of communication; game theoretic approaches to congestion control.

7602 Wireless Networks (3) Prereq.: CSC 4501. Radio systems and ad-hoc wireless networks; relevant concepts in terms of mobility, migration, and service levels and their impact on system design; wireless network communication; packet radio techniques; ad-hoc networks; nomadic computing; issues in cellular networks; TCP/IP over wireless.

7610 High Performance Computing II (3) Prereq.: CSC 7600 or equivalent. Finite difference schemes for molecular dynamics; classical deterministic simulations; combinatorial optimization; algorithms for quantum molecular dynamics; scientific applications in high performance computing.

7620 High Performance Computing III (3) Prereq.: CSC 7600 or equivalent. Basic stochastic simulation techniques for massively parallel computers; simulated annealing and routing algorithms.

7700 Special Topics in Computer Science (3) May be taken for a max. of 12 hrs. of credit when topics vary. Specialized areas of current interest in computer science.

7701 Sensor Networking Concepts (3) Prereq.: CSC 4501 or 7501. Self-organizing sensor networks; querying, and data aggregation; routing; energy-efficient communication protocols; sensor network security.

7702 Telecommunications Networks (3) Prereq.: CSC 4501. The convergence of traditional voice-centric telecommunication networks, applications-focused distributed middleware architectures, and the Internet; traditional telecommunications; telephone and ISDN architectures; Signal System 7; distribution of application processing in the Advance Intelligent Network; new frameworks for Internet-based core architectures; proposals to generalize the existing telephony architecture.

7800 Computer Science Research Seminar (1) V May be taken for a max. of 2 hrs. of credit when topics vary. Pass-fail grading. Student presentations and discussions on research topics in computer science.

7999 Selected Readings in Computer Science (1-3) Prereq.: consent of department chair. May be taken for a max. of 6 sem. hrs. of credit.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

CONSTRUCTION MANAGEMENT • CM

†Registration in any course above CM 2121 is restricted to students admitted to a senior college with a declared CM major or minor.

A grade of "C" or better is required in all CM prerequisite course.

1010 Construction Graphics and Nomenclature (3) Credit or registration in MATH 1550. 2 hrs. lecture; 2 hrs. lab. Graphic communication concepts and techniques relating to construction processes and nomenclature.

1020 Engineering Graphics for Mechanical Engineering (2) 4 hrs. lab. Credit will not be given for both this course and CM 1030. Not open to construction management majors. Conception, visualization, and communication of creative design concepts; introduction to engineering drafting and USA Standards Institute standards; freehand sketching; three-dimensional forms used in solution of engineering problems; use of solid modeling software in design and design communication.

1030 Engineering Graphics (2) 4 hrs. lab. Credit will not be given for both this course and CM 1020. Not open to construction management and mechanical engineering majors. Conception, visualization, and communication of creative design concepts; introduction to engineering drafting and USA Standards Institute standards; freehand

sketching; three-dimensional forms used in solution of engineering problems; use of automated graphical techniques in design and design communication.

2012 Plan and Cost Analysis for Residential Construction (3) Prereq.: CM 1010 and MATH 1550 with a "C" grade or better. 2 hrs. lecture; 2 hrs. lab. Interpretation of working drawings and specifications; cost estimation; bidding; materials, methods, and equipment for residential construction.

2121 Materials, Methods, and Equipment I (3) Prereq.: credit or registration in CM 2012. Job planning, work methods, materials, and equipment required in building and heavy construction.

†2131 Materials, Methods, and Equipment II (Heavy and Industrial Construction) (3) Prereq.: CM 2121. Continuation of CM 2121. Emphasis on both heavy and industrial equipment.

†2141 Construction Planning and Scheduling (3) Prereq.: CM 2121 or both IE 1002 and 2060. Fundamentals of planning and scheduling techniques, including computer applications, used in the construction industry to manage construction projects.

†3000 Construction Safety (3) Construction safety relating to accident causation; contractual obligations; project management and coordination.

†3100 Construction Surveying (3) Prereq.: CM 2121. 2 hrs. lecture; 2 hrs. lab. Principles of construction surveying, fundamental measuring procedures, error analysis, leveling, traverse measurements, horizontal curves, vertical curves, and earthwork calculations.

†3121 Commercial Construction Estimating (3) Prereq.: CM 2012 and 2121. 2 hrs. lecture; 2 hrs. lab. Principles of estimating including quantity surveys, pricing analysis, and bid package preparation for commercial construction.

†3131 Industrial Construction Estimating (3) Prereq.: CM 2131 and 3121. 2 hrs. lecture; 2 hrs. lab. Principles of estimating including quantity surveys, pricing analysis, and bid package preparation for industrial construction.

†3141 Highway Construction (3) Prereq.: CM 3100. Basic fundamentals of highway construction including: earthmoving, drainage, road paving, bridge, and retaining walls; interpretation of plans and specifications; materials, methods, equipment, and estimating.

†3303 Mechanical and Electrical Systems (3) Prereq.: CM 2121 and PHYS 2002. Mechanical and electrical systems in residential and commercial buildings; nomenclature and design consideration; emphasis on management, quality control, and installation procedures.

†3400 Construction Materials (3) Prereq.: CM 2121. Fundamentals involved in design, evaluation, testing, and construction of asphalt, concrete, aggregates, steel, timber, and composites; mechanic properties of soils, compaction, and slope stability; construction of shallow and deep foundations, and retaining walls.

†3505 Structural Technology I (3) Prereq.: MATH 1550 and PHYS 2001. Rigid and deformable body structural mechanics for construction management majors focusing on determination of the nature, magnitudes, and equilibrium requirements of forces acting on structures and the internal load effects (stress and deformation) of these forces on the structural components.

†3506 Structural Technology II (3) Prereq.: CM 3505. Structural design of ordinary timber, steel, and reinforced concrete buildings and bridges in accordance with appropriate design code specifications; emphasizes allowable stress design provisions to achieve safe and serviceable structural resistance to vertical and lateral load effects.

†4200 Construction Administration (3) Prereq.: CM 2141, 3121 and credit or registration in CM 3000. Principles and theory of ownership, organization, contracts, insurance, bonding, and labor relations pertaining to the construction industry.

†4201 Construction Law (3) Prereq.: CM 4200. The law of business and current legal problems, roles, and responsibilities associated with the construction industry; emphasis on claims avoidance.

†4202 Construction Enterprise (3) Prereq.: CM 4200. Open to Construction Management majors only. A comprehensive study of construction management as it relates to a single construction enterprise.

†4206 Special Topics in Construction Management (3) May be taken for a max. of 6 sem. hrs. when topics vary. Advanced topics, current issues, or recent developments in the construction industry.

†4207 Independent Study (3) Prereq.: consent of a faculty member. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Research on a construction topic as chosen by the student under direct supervision of a chosen faculty member.

4302 Sustainable Construction (3) Prereq.: EVEG 4154 or consent of instructor. Green building technologies as it applies to residential, commercial, and heavy highway construction. Design and construction of high performance structures. Economical and ecological benefits of green

buildings. U.S. green LEED, NAHB green guidelines, and Green roads.

4303 Life Cycle Assessment (3) Prereq.: EVEG 4154 or consent of instructor. Computational structure and data sources for SETAC LCA, input-output LCA, and hybrid LCA as tools select a superior alternative on the basis of pollution prevention and resource conservation.

CURRICULUM AND INSTRUCTION • EDCI

Admission to courses at the 3000-level and above is restricted to students formally admitted to a teacher education program/concentration. Formal admission includes 2.50 LSU and cumulative grade point averages and passing scores on Praxis I assessments or a minimum ACT composite score of 22 or a minimum SAT composite score of 1030.

General education courses are marked with stars (★).

1000 Introduction to the Study of Education (3) Field experience in multicultural settings in secondary schools. Credit will not be given for both this course and MUED 1000. Historical foundations, organization, and administration of American public education.

1001 Introduction to College Study (3) Intended for entering freshmen. College-level readings and techniques for organizing text and lecture information for effective study; critical thinking and reading; time management; preparation for tests.

★ **2001 Education, Schooling, and Society (3)** Introduction to contemporary educational issues, especially as these are situated historically, culturally, socially, and politically; topics include history, theory, and politics of education, especially as related to gender, race, class, and technology.

2025 Foundations and Principles of Teaching in Elementary School (3) 2 hrs. lecture; 2 hrs. field experience in elementary schools. Open only to students enrolled in programs leading to teacher certification.

2030 Teaching, Schooling, and Society (3) Prereq.: admission to Grades PK-3 or 1-6 teacher certification program. 2 hrs. lecture; 2 hrs. field experience in elementary school and middle schools. Experiences that join theory to practice; teaching as it operates in elementary school culture; a reflective approach to pedagogy; discussions of teaching in the historical and philosophical dimensions of discourse/practice.

2040 Principles and Practices in Secondary Education (3) Prereq.: EDCI 1000.

2045 Principles and Practices in K-12 Programs (4) Prereq.: EDCI 1000 and enrollment in a program leading to teacher certification in grades K-12. 3 hrs. lecture; 2 hrs. lab/field experience in multicultural settings. Credit will not be given for both this course and MUED 2045. Managerial aspects of instruction; application of learning principles to the classroom setting.

2081 PK-3 Program Overview (1) Pass-fail grading. The nature of PK-3 instruction and expectations of the PK-3 teacher education program.

2271, 2272 Art Education for Elementary Schools (3,3) ART 2271 is prerequisite for 2272. 2 hrs. lecture; 2 hrs. lab. Critical analysis and evaluation of past and present concepts of art education; development of a functional art program for elementary schools in Louisiana; art materials, techniques, and activities recommended for elementary school grades.

2400 Education and Diverse Populations (3) Prereq.: admission to 1-6 teacher education certification program. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings. Differences among elementary students (grades 1-6) associated with their developmental levels, cultural and ethnic backgrounds, and gender.

★ **2500 Knowing and Learning in Mathematics and Science (3)** Prereq.: BIOL/CHEM/MATH/PHYS 2010 (or concurrent enrollment). Introduction to multiple disciplinary perspectives on knowing and learning as guidance for pedagogical practice. Includes field experiences in area schools.

2700 Characteristics of Learners with Exceptionalities (3) F,S,Su 2 hrs. lecture; 2 hrs. lab/field experience. Requires field experience in a school environment containing learners with exceptionalities. An introductory course on differences of learners with various exceptionalities; characteristics, educational programs, and resources for education and support.

3000 Children's Literature (3) Survey of children's literature across time, genres, and media; focus on wide reading in children's literature and an appreciation of the value of literature for children.

3001 Student Development and Diversity (3) Prereq.: credit or registration in EDCI 2001 and concurrent enrollment in one of the following: BIOL 3001, CHEM 3001, ENGL 3201, FREN 3401, HIST 3001, MATH 3001, PHYS 3001, SPAN 3001. 2 hrs. lecture; 3 hrs. lab/field experience in multicultural settings. Differences among secondary

students (grades 6-12) associated with their developmental levels, cultural, and ethnic backgrounds, genders, learning abilities, and special needs.

3002 Classroom Culture (3) Prereq.: EDCI 3001 and concurrent enrollment in one of the following: BIOL 3002, CHEM 3002, ENGL 3202, FREN 3402, MATH 3002, PHYS 3002, SPAN 3002. 2 hrs. lecture; 3 hrs. lab/field experience in multicultural settings. Learning processes of middle school and high school students in the social learning environment of the classroom, with attention to individual and group motivation, social interactions, integration of technology, and classroom management.

3112 Reading Instruction in the Elementary School (6) Prereq.: EDCI 2025; concurrent registration in EDCI 3113 for elementary grades majors. 3 hrs. lecture; 6 hrs. field experience in multicultural settings. Current instructional materials and methods in teaching reading at the elementary school level; understandings and skills in a laboratory situation in the public schools.

3113 Materials and Methods in Teaching Communicative Skills in the Elementary School (2) Prereq.: EDCI 2025; concurrent registration in EDCI 3112 for elementary grades majors. Instructional materials and methods in teaching language arts communicative skills at the elementary school level; understanding and skills in a laboratory situation in the public school.

3124 Curriculum Discipline: Mathematics Theory and Practice (6) Prereq.: Professional Practice Block I; 12 sem. hrs. of mathematics, including MATH 1201 and 1202; 11 sem. hrs. of natural science; and concurrent enrollment in EDCI 3125 and MATH 2203. 3 hrs. lecture; 6 hrs. lab/field experience in multicultural, multi-level settings. Structures of the discipline of mathematics applied to teaching mathematics in grades 1-6; standards-based pedagogical strategies, techniques, and materials are coordinated with basic principles of learning.

3125 Curriculum Discipline: Science (3) Prereq.: Professional Practice Block I, 11 sem. hrs. of natural science, 12 sem. hrs. mathematics, and concurrent enrollment in EDCI 3124 and MATH 2203. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural, multi-level settings. Structures of science disciplines applied to teaching science in grades 1-6; standards-based pedagogical strategies, techniques, and materials coordinated with basic principles of learning.

3126 Curriculum Disciplines: Mathematics (3) Prereq.: EDCI 2025 or 2030, 6 sem. hrs. of credit in mathematics courses, and concurrent enrollment in EDCI 3125 and 3127. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings. Structures of mathematical disciplines for teaching in lower/upper elementary school; strategies, techniques, basic rationales, and materials.

3127 Curriculum Disciplines: Social Studies (3) Prereq.: EDCI 2400, 3000 and concurrent enrollment in EDCI 3137, 3200, and 4460. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural, multi-level settings. Structures of the social science disciplines applied to teaching social studies in grades 1-5; standards-based pedagogical strategies, techniques, and materials coordinated with basic rationales and principles of learning.

3135 Teaching Reading in the Junior and Senior High School (3) Prereq.: EDCI 2040 or 2045 or equivalent. Approaches for teaching reading; general review of reading approaches and materials.

3136 Reading in the Content Areas (3) Content area reading problems and solutions; the reading process, approaches, skills, and materials.

3137 Assessing and Guiding Classroom Reading Instruction (3) Prereq.: EDCI 2400, 3000, and concurrent enrollment in EDCI 3200, 3127, and 4460. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural, multi-level settings. Advanced reading instruction experience with particular emphasis on assessment in diverse and multicultural settings.

3142 Materials and Methods in Secondary School English (3) Prereq.: EDCI 2040 and credit for or registration in 21 of the 24 sem. hrs. of English courses required for a teaching minor in secondary school English. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3143 Materials and Methods in Secondary School French (3) Prereq.: EDCI 2040 and credit for or registration in 23 of the 26 sem. hrs. of French courses required for a teaching minor in secondary school French. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3144 Materials and Methods in Secondary School Social Studies (3) Prereq.: EDCI 2040 and credit for or registration in 21 sem. hrs. of the social studies courses required for a teaching minor in secondary school social studies. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings. Techniques, strategies, and materials for teaching secondary school social studies.

3145 Materials and Methods in Secondary School Latin (3) Prereq.: EDCI 2040 and credit for or registration in the

Latin courses required for a teaching minor in secondary school Latin. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3146 Materials and Methods in Secondary School Mathematics (3) Prereq.: EDCI 2040 and credit for or registration in 17 of the 20 sem. hrs. of mathematics courses required for a teaching minor in secondary school mathematics. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings. Techniques, strategies, and materials for teaching secondary school mathematics.

3147 Materials and Methods in Secondary School Science (3) Prereq.: EDCI 2040; 8 sem. hrs. of biology (BIOL 1001, 1002, 1003, 1004 or BIOL 1201, 1208, and either BIOL 1402 or 1502; 8 sem. hrs. of chemistry (CHEM 1201, 1202, 1212); 8 sem. hrs. of physics (PHYS 2001, 2002, 2009, 2108 or PHYS 2101, 2102, 2108, 2109); and credit for or registration in at least 8 additional sem. hrs. from among the science courses required for the teaching major (biology, chemistry, or physics) or minor (biology, chemistry, physics, or general science) selected by the student. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3148 Materials and Methods in Secondary School Speech (3) Prereq.: EDCI 2040 and credit for or registration in the speech courses required for a teaching minor in secondary school speech. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3149 Materials and Methods in Secondary School Spanish (3) Prereq.: EDCI 2040 and credit for or registration in 23 of the 26 sem. hrs. of Spanish courses required for a teaching minor in secondary school Spanish. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3160 Materials and Methods in Art in Elementary and Secondary Schools (3) Prereq.: EDCI 2045 and credit for or registration in 25 of the 31 sem. hrs. of art courses required for a teaching minor in art. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3170 Principles of Teaching Elementary School Music (3) Materials, methods, and current trends.

3171 Principles of Teaching Secondary School Music (3) Materials, methods, and current trends.

3181 Materials and Methods in Communicative Disorders in the Elementary and Secondary Schools (3) Prereq.: EDCI 2025, completion of all speech courses required in curriculum, and concurrent enrollment in EDCI 3641. Speech, language, and hearing services in the public schools; organization and implementation.

3200 Reading, Writing, and Oral Communication in the Elementary School (6) Prereq.: EDCI 2400, 3000 and concurrent enrollment in EDCI 3127, 3137, and 4460. 3 hrs. lecture; 6 hrs. lab/field experience in multicultural, multi-level settings. Principles and practices of an effective program in reading, writing, and the oral language arts in grades 1-5.

3223 Adolescent Literature (3) See ENGL 3223.

3400 Educational Principles, Policies, and Practices for Special Populations (3) Prereq.: cohort membership or consent of instructor. 2 hrs. lecture; 2 hrs. lab/field experience. Current issues in identification, assessment, and instruction in the mainstream classroom for diverse students, such as different racial/ethnic groups.

3481 Curriculum in Grades 1-3 (3) Prereq.: HUEC 3381, 3382, 3383; membership in PK-3 teacher education program; and concurrent enrollment in HUEC 3056, EDCI 3482, and 3483. Comprehensive, integrated curriculum content for children in grades 1-3; reading/language arts, mathematics, social studies, science, and the arts.

3482 Pedagogy in Grades 1-3 (3) Prereq.: HUEC 3055; HUEC 3381, 3383; membership in PK-3 teacher education program; and concurrent enrollment in HUEC 3056, EDCI 3481, and 3483. 2 hrs. lecture; 3 hrs. lab/field experience in multi-level, multicultural settings. Instructional strategies and materials for children in grades 1-3.

3483 Assessment and Planning for Reflective Instruction: Grades 1-3 (3) Prereq.: HUEC 3055; HUEC 3381, 3382, 3383; membership in PK-3 teacher education program; and concurrent enrollment in HUEC 3056, EDCI 3481, and 3482. 1 hr. lecture; 6 hrs. lab/field experience in multi-level, multicultural settings. The process of building the teaching and learning cycle (assessing, planning, teaching, reflecting) into integrated instruction of children in grades 1-3.

3550 Classroom Interactions (3) Prereq.: BIOL/CHEM/MATH/PHYS 2011 (or concurrent enrollment) and EDCI 3500. 2 hrs. lecture; 2 hrs. field experience in multicultural settings. Classroom interactions in secondary mathematics and science education understood as a process of concept acquisition that encompasses learner's knowledge and emphasizes student thinking as well as illuminating the critical role of reflection and language in the construction of knowledge. Students in classroom interactions study classroom events that impact learning in mathematics and science and critical issues of student equity.

3625 Student Teaching in the Elementary Grades (12) Prereq.: see "Requirements for Student Teaching." 2 hrs.

lecture; 30 hrs. lab. Pass-fail grading.

3630 Student Teaching in the Elementary and Secondary Grades (12) Prereq.: see "Requirements for Student Teaching." 2 hrs. lecture; 30 hrs. lab. Pass-fail grading.

3635 Student Teaching in the Secondary Grades (12) Prereq.: see "Requirements for Student Teaching." 2 hrs. lecture; 30 hrs. lab. Pass-fail grading.

3641 Student Teaching in Communicative Disorders in the Elementary and Secondary Schools (12) Prereq.: concurrent enrollment in EDCI 3181. See "Requirements for Student Teaching." 1 hr. lecture; 30 hrs. lab. Pass-fail grading.

3701 Assessment for Special Education Instructional Practice (3) Prereq.: EDCI 2700 and admission to a Teacher Education Program. 2 hrs. lecture; 2 hrs. lab/field experience. Requires practical field experience with student(s) with disabilities in a school environment. Does not satisfy the Louisiana requirements for certification as an Exceptional Diagnostician. Assessing performance of students with disabilities; interpreting standardized test results; designing and using assessment in the classroom; instructional design based on assessment data.

3702 Instructional Practice for Students with Disabilities I (3) S Prereq.: EDCI 3701. 2 hrs. lecture; 2 hrs. lab. Instructional methods, procedures, and materials for teaching students with mild to moderate learning and behavior problems; overview of various methods and introductory procedures for explicit instruction and ongoing assessment.

3703 Instructional Practice for Students with Disabilities II (3) F Prereq.: EDCI 3702. 2 hrs. lecture; 2 hrs. lab. Advanced instructional methods, procedures, and materials for teaching students with mild to moderate learning and behavior problems; includes the use of explicit instruction in academic subjects and ongoing assessment techniques; emphasis on reflective practice and making informed instructional decisions.

3712 Secondary Methods and Transition Planning in Special Education (3) S Prereq.: EDCI 3702. 2 hrs. lecture; 2 hrs. lab. Application of foundational knowledge in secondary programs for students with mild to moderate disabilities; focus on the design, delivery, and evaluation of transition services to post-school environments.

4003 Curriculum and Pedagogy in Secondary Disciplines (3) Prereq.: EDCI 3002 and concurrent enrollment in one of the following: BIOL 4003, CHEM 4003, ENGL 4203, FREN 4403, HIST 4403, MATH 4003, PHYS 4003, or SPAN 4003, or permission of instructor. May be repeated for credit in a second subject area. 2 hrs. lecture; 3 hrs. lab/field experience in multicultural settings. Credit will not be given for both this course and EDCI 4465. Applying instructional approaches in particular subject areas for middle and high school students.

4004 Critical Issues in Secondary School Content Area Teaching (3) Prereq.: EDCI 4003 or permission of instructor. May be repeated for credit in a second subject area. 2 hrs. lecture; 3 hrs. lab/field experience in multicultural settings. Credit will not be given for both this course and EDCI 4466. Critical issues in the nature of knowledge and inquiry in specific school subjects.

4005 Student Teaching in Grades 6-12 (9) Prereq.: EDCI 4003 and concurrent enrollment in EDCI 4004 and in one of the following: BIOL 4004, CHEM 4004, ENGL 4204, FREN 4404, HIST 4404, MATH 4004, PHYS 4004, SPAN 4004. 1 hr. lecture; 24 hrs. lab/field experience in diverse multicultural settings. All day, all semester student teaching experiences, including observation, participation, and a minimum of 180 actual clock hours of teaching (with a substantial portion of the 180 hrs. in a full day teaching) under the supervision of an assigned public school mentor teacher.

4006 Student Teaching in Grades 6-12 Mathematics and Sciences (9) Prereq.: EDCI 4500. 1 hr. lecture; 24 hrs. lab/field experience in diverse multicultural settings. All day, all semester student teaching experiences, including observation, participation, and a minimum of 180 actual clock hours of teaching (with a substantial portion of the 180 hours in a full day teaching) under the supervision of an assigned public school mentor teacher.

4025 Modern Principles and Practices in the Elementary School (3) Prereq.: consent of instructor. Current issues in elementary education; research findings applied to the solution of instructional problems.

4030 Middle School Curriculum and Instruction (3) Principles and practices of middle grades education with emphasis on reflective practice and middle grades students.

4040 Principles of Secondary Education (3) Prereq.: consent of instructor. Analysis of criticisms of secondary education; functions of schools and institutions in a complex political, social, and economic matrix; current theories and relevant research.

4055 Principles and Practices in Kindergarten Education (3) Prereq.: HUEC 3055 or PSYC 2076; 2.50 gpa required for registration. Same as HUEC 4055. Classroom organization and instructional management using pre-academic objectives for kindergarten as an entry point into elementary

school.

4057 Methods of Teaching Nursery School and Kindergarten (3) Prereq.: HUEC 3055 or PSYC 2076. 2.50 gpa required for registration. 2 hrs. lecture; 2 hrs. lab. Same as HUEC 4057. Essentials needed for successful involvement with children from various socioeconomic and cultural groups at the nursery/childergarten level; teaching methods, and materials providing optimum learning experiences for the child under six.

4058 Student Teaching in the Kindergarten (5) See HUEC 4058.

4113 Language Acquisition and Development of Communication Skills in the Young Child (3) Prereq.: EDCI 3112 or equivalent. Analysis of stages of native language acquisition and development of communication skills in children from birth to six years.

4241 Special Studies in Art Education (3) Research in areas directly related to the teaching of art.

4269, 4270 Art Education Workshop (3,3) Art as an integral part of the school curriculum; art activities and classroom procedures, materials, and techniques.

4272 Current Practices in Art Education (3) Contemporary trends and practices in art education; critical review of 4705 texts, journals, and other information sources.

4273, 4274 Art Education in the Elementary and Secondary Schools (3,3) For students concentrating in art education. Development of a functional art program for elementary and secondary schools; philosophy of art education, curriculum construction, teaching methods, planning, and measurement of the results of instruction.

4450 Principles and Practices in Secondary Education (3) Prereq.: cohort membership or consent of instructor. Analysis of criticisms of secondary education and of current proposals for reform; conflicting conceptions of teaching, learning, cognition and related approaches to curriculum, instruction, and evaluation; current theoretical and research approaches; implications for educational policy and practice.

4455 Principles and Practices in K-12 Education (3) Prereq.: cohort membership or consent of instructor. Analysis of criticisms of K-12 education and of current proposals for reform; conflicting conceptions of teaching, learning, cognition and related approaches to curriculum, instruction, and evaluation; current theoretical and research approaches; implications for educational policy and practice.

4460 Planning, Managing, and Evaluating School Instruction (3) Prereq.: EDCI 2400, 3000 and concurrent enrollment in EDCI 3127, 3137, and 3200. 2 hrs. lecture; 2 hrs. lab. Exploration and observation of skills and techniques for organizing and assessing learning in schools.

4465 Seminar: Reflective Teaching in Secondary Subjects (3) Prereq.: cohort membership or consent of instructor. May be taken for a max. of 6 sem. hrs. when topics vary. Credit will not be given for both this course and EDCI 4003. Critical issues and pedagogical practices related to the reflective teacher of English, social studies, science, or mathematics.

4466 Seminar: Critical Issues in Secondary School Teaching (3) May be taken for a max. of 6 sem. hrs. when topics vary. Credit will not be given for both this course and EDCI 4004. Critical issues in the nature of knowledge and inquiry in school subjects: English, mathematics, science, and social studies.

4470 Reflective Practice in Foreign Language Education: K-12 (3) Prereq.: cohort membership or consent of instructor. Class observation is required. Current theories in foreign language learning; lesson plans for different approaches and methodologies; analysis of textbooks and materials for elementary and secondary schools.

4472 Teaching for Communication: K-12 (3) Methods and techniques conducive to language proficiency; development of listening, reading, speaking, writing skills; integration of theory and practice in peer-teaching, mini-lessons, and hands-on activities; emphasis on use of foreign language as vehicle of instruction.

4481 Student Teaching: Practice and Reflection in Grades 1-3 (12) Prereq.: HUEC 4381 and 4382; concurrent enrollment in EDCI 4482. 4 hrs. lecture; 24 hrs. lab/field experience in multi-level, multicultural settings. Designed to partially fulfill student teaching requirements and to prepare student to be effective classroom teachers in grades 1-3.

4482 Capstone Seminar in Early Childhood Education (3) Prereq.: HUEC 4381 and 4382; concurrent enrollment in EDCI 4481. Critically analyzing epistemology and contexts of learning; conducting action research; communicating teaching expertise.

4500 Instructional Models for Mathematics and Science (3) Prereq.: Classroom Interactions (EDCI 3550) or concurrent enrollment. Applying instructional approaches in mathematics and science for middle and high school students. Includes supervised field experiences in

multicultural settings and/or informal learning environments.

4606 Materials and Methods for Teaching Computer Science (3) Prereq.: 3 sem. hrs. in computer science or equivalent. 3 hrs. lecture plus field experience. Materials and methods for planning instruction in computer science.

4630 Student Teaching in K-12 Grades (9) Prereq.: See "Requirements for Student Teaching." 1 hr. lecture; 35 hrs. lab. Pass-fail grading. Student teaching practicum in diverse, multicultural K-12 settings.

4635 Internship in Curriculum and Instruction (3-12) Prereq.: permission of the College of Education Office of Field Experiences. Pass-fail grading. Specific teaching or practicum experience in a public school setting; periodic evening seminars.

4701 Trends and Issues in Educating Learners with Exceptionalities (3) Su Requires field experience with student(s) with exceptionalities in a school environment. Exceptionality and special education; characteristics, educational needs, and instructional practice; current trends and issues in service provision.

4704 Contingency Management with Exceptional Children (3) Prereq.: EDCI 2700 or equivalent. Skills for behavior management of children in public school programs; theoretical and historical foundations; practical application of techniques.

4705 Learning and Behavior Principles Applied to Students with Exceptionalities (3) F,S Prereq.: EDCI 2700 and 4460. 2 hrs. lecture; 2 hrs. lab/field experience. Development of intervention programs based on the principles of applied behavior analysis; emphasis on proactive strategies that promote learning and prosocial behavior.

4710 Consultation, Collaboration, and Co-teaching (3) O Prereq.: EDCI 2700 or 4701. Professional roles; models and practices in building cooperative and inclusive environments for education; emphasis on consulting teacher, collaborative consultation, co-teaching, and

building effective communications among educators, parents, and other professionals in providing education and other services to children with exceptionalities.

4749 Student Teaching in Special Education: Mild/Moderate Disabilities (9) F,S Prereq.: credit or registration in EDCI 4705. 1 hr. seminar; 30 hrs. lab. Pass-fail grading. Laboratory teaching experience to accompany the minor in special education.

4800 Teaching in the Multicultural Classroom (3) Strategies and resources for teaching students of cultural diversity in the classroom; development of units and activities of cultural variety.

4900 Special Topics in Curriculum and Instruction (1-3) Prereq.: consent of instructor. May be taken for a max. of 9 sem. hrs. of credit. Methods, trends, and issues in curriculum and instruction.

5880 Special Topics in Education (1-3) Prereq.: consent of instructor. May be taken for a max. of 9 sem. hrs. of credit. New methods, trends, and techniques.

7002 Trends and Issues in Mental Retardation (3) An in-depth examination of issues in mental retardation including diagnosis, etiology, current theory, and delivery systems.

7005 Trends and Issues in Learning Disabilities (3) F-E An in-depth study of the meaning and concepts associated with the field of learning disabilities and the divergent characteristics of children with language, academic, and cognitive impairments.

7008 Trends and Issues in Emotional and Behavioral Disturbance (3) F-O An in-depth examination of issues and trends in emotional and behavioral disturbance including diagnosis, etiology, current theory, and delivery systems.

7009 Advanced Evaluation and Assessment for Students at-Risk (3) F Prereq.: EDCI 3701 or equivalent. Requires practical field experience with students with disabilities in a school environment. Identification and diagnosis of learning and behavior problems; IDEA and Section 504 legal requirements; administration and interpretation of individually administered standardized tests, design of classroom-based assessments and methods of comparative analysis; instructional and service recommendations based on multifaceted assessment.

7010 Advanced Practicum in Evaluation and Assessment (3) S Prereq.: EDCI 7009. Supervised experience in educational evaluation and assessment; practical and in-depth approach; procedures for prereferral screening, for conducting individual assessments, including evaluating for eligibility, interpreting data for instructional decision-making, and for designing ongoing data collection systems.

7011 Administration and Supervision in Special Education (3) Su Study of the policies and procedures; organization, administration, and supervision of special education programs; specific emphasis on legal, financial, programmatic, and professional responsibilities, including the CEC and CASE standards for professional practice.

7014 Advocacy for Individuals with Disabilities (3) F Family/caregiver issues, responsibilities, and participation; the individual with disabilities as a member of the community; and legal issues specific to a free appropriate education in the least restrictive environment.

7017 Explicit Instructional Models for Students with Disabilities (3) F Prereq.: ELRC 4249. 2 hrs. lecture; 2 hrs. lab. Evaluating the research base and theories supporting the use of instructional and assessment models, including Direct Instruction Model and curriculum-based assessment.

7018 Strategic Instructional Models for Students with Disabilities (3) S Prereq.: ELRC 4249. 2 hrs. lecture; 2 hrs. lab. Evaluating the research base and theories supporting the use of strategic instructional and assessment models; emphasis on the use of strategic instruction with students with mild to moderate disabilities.

7019 Teaching Social and Functional Skills to Students with Disabilities (3) Su Prereq.: EDCI 4701, 4704, or equivalents. Instructional planning and methods for teaching functional and social behavior to students with disabilities.

7021 Legal and Ethical Issues in Special Education (3) Su Legal and ethical issues in special education; specific emphasis on IDEA, Section 504, case law, regulatory issues, professional responsibilities, and CEC standards for professional practice.

7024 Seminar on Transition for Students with Disabilities (3) S An in-depth examination of the secondary/postsecondary transition of students with mild disabilities.

7033 Quality Assurance in Special Education (3) Prereq.: EDCI 7021, special education law, or permission of instructor. 3 hrs. lecture; 1 hr. lab. The design and implementation of quality assurance and compliance monitoring for programs serving students with disabilities; focus on the federal and state program requirements and quality assurance approaches prevalent in the field of disabilities.

7105 Teaching Reading in the Elementary School (3) Current instructional procedures and research in reading instruction in the elementary school; approaches and ideas for teaching reading to culturally different students.

7106 Teaching Reading to Students with Diverse Cultural Backgrounds (3) Prereq.: EDCI 7105 or 7135 or consent of instructor. Characteristics of learners from different cultural settings; analysis of methods and materials that support reading instruction for these students.

7107 Topics in Reading Education (3) Prereq.: EDCI 7105 or 7135 or equivalent. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Issues and practices in elementary through adult reading education.

7108 Studies in the Teaching of Elementary School Science (3) Prereq.: EDCI 3125 or equivalent. Theoretical foundations, instructional skills, and materials for teaching elementary school science.

7109 Studies in the Teaching of Elementary School Mathematics (3) Techniques and materials for teaching elementary school mathematics; relationship between learning theories and acquisition of mathematical skills and concepts.

7110 Studies in the Teaching of Elementary School Social Studies (3) Methods and materials for teaching elementary-level social studies.

7111 Studies in the Teaching of Elementary School Language Arts (3) Practices and curricula in the teaching of elementary school language arts.

7125 Teaching Reading to the Adult Learner (3) Theory, research, and practical application.

7130 Techniques and Resources for Reading Instruction (3) Prereq.: EDCI 7105 or 7135 or equivalent. Methods and materials in all areas of reading; demonstration and student production; application of materials and methods for effective reading instruction.

7131 Developing Learning Skills Through Content Reading (3) Relationships between learning skills and content areas; the reading process; materials and research related to reading.

7135 Techniques for Teaching Reading in the Middle and Secondary School (3) Reading skills appropriate for the upper levels; approaches for teaching reading; techniques for improving the school reading program.

7140 Studies in the Teaching of Social Studies in Secondary Schools (3) Theory and research with practical application to areas of study needed to teach social studies in the secondary school.

7141 Studies in the Teaching of Mathematics in Secondary Schools (3) Practices and issues in techniques and materials for teaching mathematics in secondary schools; relationship between learning theories and acquisition of mathematical skills and concepts.

7142 Studies in the Teaching of English in Secondary Schools (3)

7143 The Teaching of Literature in Secondary Schools (3)

7147 Studies in the Teaching of Secondary School Science (3) Prereq.: EDCI 3147 or equivalent; and science teaching experience. Instructional materials, evaluation practices, and science teaching skills for grades 6-12.

7149 Studies in the Teaching of Foreign Languages (3) Prereq.: completion of an undergraduate foreign language methods course and/or teaching experience; or consent of instructor. Principles and current research related to the teaching of foreign languages.

7205 Critical Analysis of Current Research in Reading (3) Prereq.: 12 hours of graduate reading courses or equivalent. Evaluation of current and needed research; application of research findings in the instructional program.

7247 Teaching in the Science Laboratory (3) Prereq.: EDCI 3147 or equivalent. 2 hrs. lecture; 2 hrs. lab. Interpreting research in laboratory science instruction; use of results to generate creative laboratory activities.

7269 Foundations of Art Education (3) Prereq.: graduate standing in art education or consent of instructor. Development of theory and philosophy leading to contemporary practices in art education.

7271, 7272 Development and Administration of an Art Education Curriculum (3,3)

7307 Topics in Curriculum and Instruction (3) May be taken for a max. of 6 hrs. of credit when topics vary.

7308 Topics in Science Education (3) Prereq.: EDCI 3147 or 7108; or equivalent. May be taken for a max. of 6 hrs. of credit when topics vary.

7309 Topics in Mathematics Education (3) Prereq.: EDCI 7109 or 7141 or consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary.

7310 Topics in Social Education (3) Prereq.: EDCI 7110 or 7140; or equivalent. May be taken for a max. of 6 hrs. of credit when topics vary.

7311 Topics in Language Arts Education (3) Prereq.: EDCI 7111 or 7142; or equivalent. May be taken for a max. of 6 hrs. of credit when topics vary. Selected topic in a

specific subject matter, level of instruction, or a methodological problem in teaching English language arts.

7312 Diagnostic and Prescriptive Teaching in Mathematics (3) Prereq.: EDCI 7109 or EDCI 7141. Techniques for assessing students' skill levels and understanding in K-12 mathematics and for tailoring instruction to individual needs.

7313 Teaching Literature in the Elementary School (3) Role of literature in elementary education; relevant teaching issues and strategies; integration of literature into the elementary curriculum.

7314 Teaching Written Composition in the Elementary School (3) Prereq.: EDCI 3113 or equivalent. Practices and curricula in the teaching of written composition in the elementary school; its relationship to language arts instruction.

7315 Teaching Multicultural Children's Literature (3) Multicultural literature for children from elementary through junior high school; historical and contemporary perspectives; implications for the classroom.

7450 Designing and Delivering the Secondary or K-12 Curriculum (3) Prereq.: EDCI 4450 or 4455. Principles of education applied to vital aspects of teaching practice in all content areas: language, literacy, and reading; student needs and characteristics; multicultural and global education; uses of technology; assessment and evaluation.

7455 Foundations of Secondary or K-12 Educational Theory, Policy, and Practice (3) Prereq.: cohort membership and completion of EDCI 7460, 7461, or consent of instructor. Social contexts, history, and philosophy of current and perennial issues in education; conflicting purposes and functions of public schooling; economic and political analysis of educational policy; implications of conflicting approaches to teaching and learning; current theory and research.

7460 Fall Practicum in Secondary or K-12 Schools (6) Prereq.: cohort membership or consent of instructor. 1 hr. lecture; 10 hrs. lab. Pass-fail grading. First of two practica in local schools.

7461 Spring Practicum in Secondary or K-12 Schools (6) Prereq.: cohort membership or consent of instructor. 1 hr. lecture; 10 hrs. lab. Pass-fail grading. Second of two practica in local schools.

7465 Seminar: The Teacher-Researcher in Secondary School Subjects (3) Prereq.: cohort membership or consent of instructor. May be taken for a max. of 6 sem. hrs. when topics vary. Study of teacher-researcher literature; its application to secondary teaching and curriculum in the subject area (English, mathematics, science, or social studies).

7467 Teaching Culture in the Foreign Language Class: K-12 (3) Prereq.: cohort membership or consent of instructor. Class observation is required. Development of an awareness of cultures; techniques for presenting the foreign culture; integration of the four skills in daily lessons; use of authentic cultural materials.

7468 The Teacher-Researcher in Art Education (3) Prereq.: cohort membership or consent of instructor. Study of teacher-researcher literature and its application to art education.

7475 Research Project in Secondary or K-12 Teacher Education (3) Prereq.: cohort membership and completion of EDCI 7460 and 7461 or consent of instructor. May be taken for a max. of 6 sem. hrs. of credit when topics vary. 2 hrs. lecture; 2 hrs. lab. Development, completion, and presentation of a research problem in curriculum and instruction that grows out of fifth-year clinical experiences and precedes course work.

7480 Teaching Practicum I (6) Prereq.: cohort membership or consent of instructor and concurrent enrollment in EDCI 7482, 7484. 20 hrs. lab. Pass-fail grading. Along with the Seminar in Teaching Research and the Master's Project, this course is designed to partially fulfill student teaching requirements and to prepare students to be effective classroom teachers.

7481 Teaching Practicum II (6) Prereq.: cohort membership or consent of instructor and concurrent enrollment in EDCI 7483, 7485. 20 hrs. lab. Pass-fail grading. Along with the Seminar in Teaching Research and the Master's Project, this course is designed to partially fulfill student teaching requirements and to prepare students to be effective classroom teachers.

7482 Seminar in Teaching Research I (3) Prereq.: cohort membership or consent of instructor and concurrent enrollment in EDCI 7480, 7484. 2 hrs. lecture; 2 hrs. lab. An integral part of the fifth-year teaching research project; along with the Teaching Practicum and the Master's Project, this course partially fulfills student teaching requirements.

7483 Seminar in Teaching Research II (3) Prereq.: cohort membership or consent of instructor and concurrent enrollment in EDCI 7481, 7485. 2 hrs. lecture; 2 hrs. lab. An integral part of the fifth-year teaching research project; along with the Teaching Practicum and the Master's Project, this course partially fulfills student teaching requirements.

7484 Master's Project I (3) Prereq.: cohort membership or consent of instructor and concurrent enrollment in EDCI 7480, 7482. Development and completion of a research problem in curriculum and instruction that grows out of the first semester's clinical experience.

7485 Master's Project II (3) Prereq.: cohort membership or consent of instructor and concurrent enrollment in EDCI 7481, 7483. Development and completion of a research problem in curriculum and instruction that grows out of the second and culminating semester's clinical experience.

7610 Advanced Seminar and Practicum in Curriculum and Instruction (3-6) The student, major professor, and a committee will structure experiences around the student's needs and interests.

7682 Assessment Techniques and Practicum in Reading (3) Prereq.: EDCI 7105, 7135, or equivalent. 2 hrs. lecture; 2 hrs. lab. Mastery level skills for evaluating reading strengths and weaknesses of elementary and secondary school students; theoretical models and a practicum for applying techniques.

7683 Guiding Classroom Instruction and Practicum in Reading (3) Prereq.: EDCI 7105 and 7682; or equivalent. 2 hrs. lecture; 2 hrs. lab. Procedures for guiding instruction in reading; theory and practice.

7684 Advanced Internship in Reading (6) Prereq.: advanced standing in the specialist or doctoral program or equivalent. 1 hr. lecture; 10 hrs. lab. Field experiences in various job-related settings. Teaching experiences at the local school and university levels; administrative experience at the parish level, and consultant experience at the state level.

7685 Applied Research in Reading (3) Prereq.: enrollment in advanced graduate program and ELRC 4249; or equivalent. Individual research projects.

7701 Advanced Seminar in Special Education I (3) F Prereq.: ELRC 4249. Current trends and issues in special education, including legal/ethical considerations, history, theory, and seminal research.

7702 Advanced Seminar in Special Education II (3) S Prereq.: EDCI 7701. Current trends and issues in special education, including seminal research and instructional methodology; builds upon primary concepts presented in EDCI 7701, with emphasis on the further development of oral and written expression skills.

7713 Individual Study in Special Education (3)

7727 Behavior Analysis in Special Education (3) F-E Prereq.: EDCI 4705 or PSYC 4030. Requires intermediate understanding of research and applied behavior. Advanced course in the understanding and application of single case experimental designs in special education and related disciplines.

7760 Nature and Needs of the Gifted and Talented (3) V Historical perspective, social, emotional, and educational characteristics; administrative considerations; sociological and psychological studies; special populations.

7761 Models and Strategies for Teaching the Gifted (3) S Prereq.: EDCI 7760 or equivalent. Examination of models,

teaching strategies, and resources for planning appropriate learning experiences for gifted and talented students in diverse settings.

7762 Creative Behavior (3) V Nature and analysis of creative behavior; appraisal and implementation of specific processes designed to encourage creative productivity.

7763 Developing Curriculum for the Gifted (3) Su Prereq.: EDCI 7761. An examination of curricular theories and models for use in gifted education programs, including the development and evaluation of educational plans for individuals and groups.

7764 Social and Emotional Development of the Gifted (3) S Prereq.: EDCI 7760. In depth study of the social and emotional development of the gifted; specific emphasis on underachievement, counseling, youth with special needs, and working with other mental health professionals in the school setting.

7768 Practicum in Education for the Gifted (3-6) V Prereq.: EDCI 7760, 7761, and 7762. Planning, implementing, and evaluating teaching strategies, materials, and counseling techniques in a school program.

7810 Current Trends in Secondary School Instruction (3) Contemporary patterns in organization, administration, curriculum, and governance of the modern secondary school.

7811 Seminar in Current Trends in Education Literature (3) Seminar for beginning doctoral students in curriculum and instruction. May be taken for a max. of 6 hrs. of credit when topics vary.

7821, 7822 Problems in Curriculum and Instruction (2-4, 2-4) For advanced graduate students who are qualified to undertake individual problems.

7824 Elementary School Curriculum (3) Content, organization, and evaluation of the elementary school curriculum.

7825 Secondary School Curriculum (3) Content, organization, and evaluation of the secondary school curriculum.

7830 Advanced Seminar in Junior High/Middle School Instruction (3) For advanced students in elementary and secondary education with special interest in the instructional program for early adolescents.

7843 Early Childhood Education (3) See HUEC 7843. Historical, theoretical, philosophical, and programmatic issues that effect contemporary early childhood education.

7844 Creativity in Early Childhood Education (3) Role of creativity in designing the educational environment for young children; philosophy, teaching techniques, and instructional planning; role of parents, teachers, and today's multicultural society in the development of creativity.

7845 Teaching Concepts in Early Childhood (3) Methods and materials for the teaching of mathematics, science, and social studies concepts in the early childhood curriculum.

7846 Diagnostic Teaching in Early Education (3) Prereq.: EDCI 4055 or equivalent. Using age-level competency skills for developing diagnostic strategies for young children to be used as the basis for instructional planning.

7880 Seminar in Reading (2) May be taken for a max. of 8 sem. hrs. credit when topics vary; a minimum of 4 sem. hrs. is required for each doctoral student in reading. Special topics not covered in other reading courses.

7900 Doctoral Orientation Seminar (1) Orientation to the doctoral program for new and resident doctoral students. Pass-fail grading.

7901 Curriculum Theory (3) Means for strengthening the curriculum; links between past and current concepts of curriculum.

7902 Analysis of Research on Teaching (3) Prereq.: ELRC 7006 or equivalent. Theory of design and application of research related to systematized instruction.

7903 Curriculum Planning (3) Prereq.: EDCI 7901 or equivalent. Principles of curriculum needs assessment, design, implementation, and evaluation.

7904 Education and Cognition (3) S Understanding human cognition and cognitive change; implications for educational theory, practice, and research.

7910 Traditions of Inquiry in Education (3) Prereq.: ELRC 7299 or permission of instructor. Theoretical and methodological issues related to research traditions in education; development of major traditions.

7920, 7921 Analysis of Research in Curriculum and Instruction (3) Prereq.: ELRC 7241 or equivalent. A max. of 6 sem. hrs. may be earned in this series; only 3 sem. hrs. may be earned in any one area. Factors influencing research and critical analysis of selected research in one of the following areas: curriculum, mathematics, science, language arts, social, or early childhood education.

7930, 7931 Seminar: Curriculum and Instruction (1-6) A max. of 6 sem. hrs. may be earned in this series when topics vary. Trends and issues in one of the following areas: curriculum, mathematics, science, language arts, social, or early childhood education.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

DAIRY SCIENCE • DARY

1048 Elements of Dairying (3) F,S Fundamentals of dairy production and manufacturing.

2040 Techniques of Judging and Evaluating Dairy Cattle (2) F Development of live animal evaluation techniques in a clinical setting; emphasis on visual evaluation, decision making, oral communication.

2049 Dairy Cattle Production Practices (3) S Prereq.: DARY 1048. 2 hrs. lecture; 2 hrs. lab. Dairy cattle production practices; care, fitting, showing dairy cattle.

2072 Introductory Agricultural Genetics (3) S Prereq.: BIOL 1002 or equivalent. Introduction to classical and modern genetic methodology used in agriculture including Mendelian principles, successful breeding techniques, assisted reproductive technology, genetic engineering and other biotechnological methods.

2075 Milk and Dairy Foods (3) F Product processing techniques and related principles involved in market preparation of milk and dairy foods; emphasis on consumer and processor viewpoints relative to product composition, processing, marketing, sanitation, and related environmental aspects.

2085 Milk Quality Control Laboratory (2) S Prereq.: permission of department. 4 hrs. lab. Public Health Service laboratory and inspection procedures for quality control on dairy farms and in milk plants.

2093 Dairy Products Judging (2) S Development of sensory evaluation techniques in a clinical setting; emphasis on sensory evaluation, decision making, oral communication.

3010 Applied Animal Feed Formulation (3) S Prereq.: ANSC 1011 or DARY 1048 or PLSC 1049 and MATH 1021 or equivalent. Formulation of feed for agricultural animals, including feed laws, feed stuffs, and requirements.

3049 Topics in Dairy Science (1-3) F,S,Su Prereq.: consent of department head. May be taken for a max. of 6 hrs. credit. Topics from dairy production or dairy food manufacturing areas.

3050 Dairy Science Internship (3) Su Prereq.: junior standing with an overall gpa of 2.20 and consent of department head. May be taken for a max. of 6 hrs. of credit. Forty hours of supervised work in the dairy industry.

4020 Dairy Foods Technology: Frozen and Cultured Dairy Products (4) F-O 3 hrs. lecture; 3 hrs. lab. Principles and processes in the manufacture of ice cream and other frozen dairy products; concentrated milk products; cheese and fermented milk products.

4040 Quality Assurance in the Food Industry (4) S-E Prereq.: BIOL 2051. 3 hrs. lecture; 2 hrs. lab. Also offered as ANSC 4040, FDSC 4040, and PLSC 4040. Laboratory functions, manufacturing processes, and microbiological, chemical, and statistical techniques used to provide complete quality assurance for the modern dairy food plant.

4043 Domestic Animal Endocrinology (3) F Relation of endocrine system to reproduction, growth, and function of domestic animals.

4045 Reproductive Physiology of Farm Animals (3) F Also offered as ANSC 4045. Reproductive anatomy and physiology of farm animals; factors affecting reproductive performance.

4046 Physiology of Lactation (2) S-E Prereq.: BIOL 1002 and 1005; or equivalent. Anatomy and development of the mammary gland; physiological and biochemical regulation of mammary growth and milk secretion; emphasis on farm animals.

4047 Reproductive Management and Artificial Insemination (1) F Prereq.: credit or registration in ANSC/DARY 4045. 3 hrs. lab. Management techniques and principles necessary for artificial insemination in cattle.

4054 Dairy Farm Management (4) S-O Prereq.: DARY 2049 or consent of instructor. 3 hrs. lecture; 3 hrs. lab. Principles of managing dairy cattle; recommended farm practices for economical milk production.

4081 Dairy Microbiology (3) F Prereq.: BIOL 2051. 1 hr. lecture; 4 hrs. lab. Application of specific bacteriological procedures used in quality control and processing of dairy products.

4118 Applied Animal Breeding and Genetics (2) F-E Prereq.: DARY 2072 or BIOL 2153 and EXST 2201. Mating systems and methods of breeding for genetic improvement in farm livestock.

7004 Population Genetics in Animal and Plant Breeding (4) S Prereq.: DARY 4118 and EXST 7004; or equivalent. 3 hrs. lecture; 2 hrs. lab. Genetic concepts concerning characteristics of populations.

7018 Rumen Physiology and Metabolism (3) F-O Comparison of ruminants to other herbivora and nonruminant animals; factors associated with obtaining and utilizing feeds; fermentation products; symbiotic relationship between microflora and the host animal; host animal

metabolism.

7020 Andrology (3) S-E Prereq.: DARY/ANSC 4045 or equivalent. Male reproductive physiology and anatomy of avian, aquatic, and mammalian species.

7091 Advanced Dairy Seminar (1) F,S May be taken 4 times for credit.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Research Procedure in Dairy Science (1-6) Prereq.: consent of department. May be taken for a max. of 9 sem. hrs. credit. Research in dairy breeding and genetics, management, nutrition, and physiology; dairy manufacturing.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

DISASTER SCIENCE AND MANAGEMENT • DSM

2000 Hazards, Disasters, and the Environment (3) Also offered as GEOG 2000. Exploration of the interaction processes between natural/technical hazards and society that cause disasters; introduction to the natural and technological hazards and disasters; hazards and disaster management; environmental considerations and impacts.

2010 Fundamentals of Emergency Management (3) Introduction and overview of emergency management functions and processes in federal, state, and local governments; roles of nonprofit and private organizations in disaster planning, response, and recovery; critical management issues in effective response and recovery to natural and man-made hazards.

2020 Terrorism and Counter-Terrorism (3) Terrorism and its origins; consequences of modern terrorist attacks and campaigns; ideological and religious justifications for terrorism; domestic versus international terrorist networks; state sponsored terrorism; factors contributing to the successful preemption and disruption of terrorist attacks and networks.

3200 Technology and Emergency Management (3) Application of technology that may be applied in emergency planning, response, recovery, and mitigation; current and emerging technology applications; special issues and problems associated with the use of technology in emergency management.

3900 Disaster Science and Management Internship (3) Prereq.: DSM 2000 and junior standing. Written consent of DSM program coordinator and supervising faculty member. Faculty supervised field study with an agency or organization whose mission is considered relevant to the emergency management system or disaster planning, response, or mitigation.

3910 Hazards Seminar (1) F,S Prereq.: DSM 2000 and junior standing; May be repeated for a max. of 3 sem. hrs. when topics vary. Guest speakers and presentation of reports and discussion with students and faculty concerning a broad range of issues, problems, and topics related to disasters and emergency management.

4000 Disaster Science and Management Senior Seminar (3) Prereq.: DSM 2000, 2010 and 6 hours of additional DSM elective upper level courses or by permission of the instructor or program director. Examines, with community partners, the nature and impacts of disasters; explores individual, community, and organizational strategies to mitigate the economic, social cultural, ecological, or physical impacts of disasters and enhance resilience at a local, regional, or national scale.

4600 Crisis Management (3) Also offered as MGT 4600. Introduction to crisis management as it is applied in public, private, and non-profit organizations; crisis management is a function of all organizations and supports strategic goals of ensuring survivability, economic viability, and organizational continuity.

4900 Research in Disaster Science and Management (3) Prereq.: SOCL 2211 or equivalent and 12 hrs. of course work including DSM 2000 and core courses in the disaster science management concentration or minor; consent of instructor.

4996 Directed Readings in Disaster Science and Management (1-3) May be repeated for a max. of 6 sem. hrs. when topics vary. Consent of instructor. For students with at least junior standing and 12 hrs. of course work including DSM 2000 in the disaster science management concentration or minor.

7000 Policies and Practices of Emergency Management (3) The evolution of hazard and disaster policies and emergency management organizational practices and their economic, social, and environmental impacts; the impacts of natural and man-made hazard and disaster policies, and issues in the public, private, and non-profit sectors.

7910 Disaster Science and Management Seminar (1) May be repeated for a max. of 2 sem. hrs. of credit as sessions vary for fall and spring semesters. Reports and discussions with students and faculty concerning a broad range of issues, problems, and topics related to natural and man-made

hazards, disasters, and emergency management.

ECONOMICS • ECON

General education courses are marked with stars (★).

★ **2000 Principles of Microeconomics (3)** An honors course, ECON 2001, is also available. Credit will not be given for both this course and ECON 2001, 2020 or 2030. Study of how households and firms make decisions and how they interact in specific markets; theories of production price determination, trade, externalities, and public goods.

★ **2001 HONORS: Principles of Microeconomics (3)** Same as ECON 2000, with special honors emphasis for qualified students. Credit will not be given for this course and ECON 2000.

★ **2010 Principles of Macroeconomics (3) Prereq.:** ECON 2000 or 2001. An honors course, ECON 2011, is also available. Credit will not be given for both this course and ECON 2011 or 2030. Study of economy-wide phenomena, including inflation, unemployment, the monetary system, economic growth, international trade and finance.

★ **2011 HONORS: Principles of Macroeconomics (3)** Same as ECON 2010, with special honors emphasis for qualified students. Credit will not be given for this course and ECON 2010.

★ **2030 Economic Principles (3)** An honors course, ECON 2031, is also available. Credit will not be given for both this course and ECON 2000 or 2010 or 2020. Economic understanding of both micro- and macroeconomic principles; problems associated with monetary policy, fiscal policy, public finance, government and business, labor, international trade, economic growth, and comparative economic systems.

★ **2031 HONORS: Economic Principles (3)** Same as ECON 2030, with special honors emphasis for qualified students.

2035 Money, Banking, and Macroeconomic Activity (3) Prereq.: ECON 2000 or 2001 and 2010 or 2011; or 2030. An honors course, ECON 2036, is also available. Credit will not be given for both this course and ECON 2036. Role of commercial banks, other financial institutions, and the central bank in affecting the performance of the economy; relationships of money and fiscal policy to prices, production, and employment; internal and external effects of U.S. fiscal and monetary policy.

2036 HONORS: Money, Banking, and Macroeconomic Activity (3) Same as ECON 2035, with special honors emphasis for qualified students. Credit will not be given for this course and ECON 2035.

3999 Independent Study: Economic Problems (1-3) May be taken for credit for a max. of 6 sem. hrs. For undergraduate students with a grade point average of 3.00 or above. Independent economic research and study under the direction of a faculty member.

4010 The United States—Its Economic Growth (3) Prereq.: ECON 2000 and 2010; or 2030; or equivalent. The American economy; modern problems dealing with money and banking, taxation, labor, international trade, and American position in world affairs.

4020 Comparative Economic Systems (3) Prereq.: ECON 2000 and 2010; or 2030. Theory and practice of economic systems: capitalism, socialism, and centrally planned economies.

4025 The Russian Economy in the 20th Century (3) Prereq.: ECON 2000 and 2010; or 2030. Also offered as HIST 4126. Operation, growth, and performance of the Russian economy under the tsarist and Soviet regimes; perestroika (restructuring) under Gorbachev; current economic trends.

4030 Development Economics (3) Prereq.: ECON 2000 and 2010; or 2030. Political, social, and technological factors affecting development of the third world.

4040 Economic Development Policy (3) Prereq.: ECON 2000 and 2010; or 2030. Role of U.S. and other advanced industrialized countries in the economic development of Third World countries.

4050 Economic Development of Europe (3) Prereq.: ECON 2000 and 2010; or 2030; or equivalent. Major elements in the economic development of resources, transportation, marketing, finance, labor, and economic policy.

4070 Economic Growth (3) Prereq.: ECON 2000 and 2010; or 2030. Analysis of the determinants of economic growth through development of theoretical and empirical models of economic growth; discussion of both old and new growth theory and convergence of income levels across countries.

4075 American Economic History to 1860 (3) See HIST 4075.

4076 American Economic History, 1860 to the Present (3) See HIST 4076.

4110 Public Finance (3) Prereq.: ECON 2000 and 2010; or 2030. Economic theory applied to the private market and to the public sector; public goods, efficiency, voting,

externalities, principles of taxation, benefit-cost analysis, and policy analyses of current issues.

4120 Federal, State, and Local Taxation (3) Prereq.: ECON 2000 and 2010; or 2030. Administration, fiscal importance, and economic effects of federal, state, and local taxes; emphasis on recent trends in taxation at each level of government and on significance of these trends for individuals and the nation.

4130 Urban and Regional Economics (3) Prereq.: ECON 2000 and 2010; or 2030. Economic analysis of the location and growth of urban and regional areas; emphasis on public policy issues; land-use patterns, measurement and change in regional economic activity, and urban problems such as transportation, housing, and poverty.

4210 Labor Economics (3) Prereq.: ECON 2000 and 2010; or 2030. Causes of economic problems of American wage earners; attempts of wage earners and society to alleviate and solve these problems through organization and legislation.

4220 Wage and Employment Analysis (3) Prereq.: ECON 2000 and 2010; or 2030. The labor market; labor supply and demand, human capital, racial and sex discrimination, effects of minimum wage laws, causes of various wage and employment differentials.

4230 Economics of Human Resources (3) Prereq.: ECON 2000 or 2030. Application of empirical research and economic theory to human resource management and internal labor market; topics include hiring, training, pay, promotion, evaluation, layoffs, and termination from an economic perspective.

4320 Environmental Economics (3) Prereq.: ECON 2000 and 2010; or 2030. Market failure and government failure, benefit cost analysis, the economics of energy, the efficient allocation of pollution, stationary, and mobile source air pollution, water pollution, and toxic wastes.

4325 Applied Resource Economics (3) Prereq.: ECON 2000 and 2010; or 2030. Analysis of environmental and resource problems; cost-benefit and other empirical techniques used to examine these problems.

4400 Industrial Organization and Public Policy (3) Prereq.: ECON 2000 and 2010; or 2030. Theory of the firm, perfect competition, monopoly, collusion and collusive strategies, strategic interaction, auctions, durable goods, predation, antitrust, and experimental economics.

4421 Health Care Economics (3) Prereq.: ECON 2000 and 2010; or 2030. Economics of health care with particular emphasis on hospitals, physicians, and other health care providers, as well as government programs.

4440 The Economics of Government Regulations (3) Prereq.: ECON 2000 and 2010; or 2030. Economic bases, policies, and consequences of government regulation of economic activity.

4445 Internship in Economics (3) Prereq.: consent of instructor. Pass-fail grading. On-the-job experience in approved positions with economic content.

4520 International Trade (3) Prereq.: ECON 2000 and 2010; or 2030. Introduction to the basic theories of international trade including classical, neoclassical, and post-neoclassical theories; discussion on how these theories relate to current economic events and policies; brief overview of major U.S. trade law; overview and analysis of major bilateral and multilateral trading agreements including the North American Free Trade Agreement, the European Union, and the World Trade Organization.

4530 The Chinese Economy (3) Prereq.: ECON 2000 and 2010, or 2030. Review of the history of the economy in China; major governmental policies in China that have shaped the growth and development of the Chinese economy; the development of the manufacturing and industrial sectors; China's role in the international trade and financial markets.

4540 Economic Forecasting (3) Prereq.: ECON 2000 and 2010, or 2030; and ISDS 2000; or equivalent. Applications of methods used in business and economic forecasting; trend analysis, time-series modeling, regression analysis and combination forecasting.

4550 International Finance (3) Prereq.: ECON 2035 or equivalent. Exchange rates and the foreign exchange market; exchange rate determination in the short run and in the long run; alternative international currency systems, macroeconomic policy coordination under fixed and floating exchange rates.

4560 Central Banking and Monetary Policy (3) Prereq.: ECON 2035. History, economic functions, operating techniques, and policies of central banks; the role of monetary policy in promoting economic stability and growth; the Federal Reserve System and current problems of monetary policy and control.

4610 Introduction to Mathematical Economics (3) Prereq.: ECON 2000 and 2010, or 2030; and college algebra; or equivalent. Not normally open to students who have had differential calculus. Mathematical techniques used by economists; their application to economic analysis.

4620 Game Theory and Applications (3) Prereq.: *ECON 2000 and ECON 2010 or ECON 2030*. Methods to analyze optimal or strategic behavior in situations with multiple interactive decision makers. Topics range from the formal analysis of parlor games, cold war, auctions, voting behavior to pricing decisions of firms.

4630 Introduction to Econometrics (3) Prereq.: *ECON 2000 and 2010, or 2030; MATH 1431 or equivalent; and ISDS 2000 or equivalent. Not open to students with credit in ECON 7630*. For students interested in a basic knowledge of econometrics. Techniques of econometrics; estimating the basic linear model and hypothesis testing; empirical illustrations by reference to contemporary economic questions.

4632 Financial Econometrics (3) Prereq.: *ECON 2000 and 2010; or 2030; ISDS 2000 or equivalent*. Econometric methods used to examine financial data; tests of market efficiency, forecasting volatility of financial markets, estimating value at risk.

4710 Aggregate Economic Analysis (3) Prereq.: *ECON 2035 or equivalent*. The focus is on the factors determining the aggregate level of national income, employment, and prices; models of business cycles and long-run growth are developed and compared, and the macroeconomic effects of monetary and fiscal policy are analyzed.

4720 Intermediate Microeconomic Theory (3) Prereq.: *ECON 2000 and 2010; or 2030*. Price determination, resource allocation, and pricing in a market economy.

4730 The Evolution of Economic Thought (3) Cultural and historical factors influencing different types of economic thought from the ancient world to the present.

4900 Selected Topics in Economics (3) Prereq.: *ECON 2000 and 2010 or 2030*. May be taken for a max. of 6 sem. hrs. when topics vary.

5600 Microeconomic Theory for Policy Analysis (3) Also offered as PADM 5600.

7070 Theory of Economic Growth (3) Prereq.: *ECON 7715*. Theories of economic growth and their development.

7130 Public Finance Theory (3) Foundations of welfare economics for evaluating efficiency and equity of taxation and public spending policies; incidence and optimality of taxation.

7135 Advanced Topics in Public Finance (3) May be taken for a max. of 6 hrs. of credit when topics vary. Special issues in taxation, public expenditures, and political economy.

7240 Seminar in Labor Economics (3) Theoretical and empirical effects of trade unions and other labor organizations on individuals, firms, government policies, and the economy.

7250 Wage and Employment Analysis (3) Neoclassical wage and employment theory and its application to the labor market; labor force participation rates; discrimination; labor markets, human capital, the inflation-unemployment trade-off.

7320 Seminar in Environmental and Resource Economics (3) Neoclassical and bio-economic tradition of resource utilization; emphasis on biophysical underpinnings of economics drawing from thermodynamics, ecology, geology, and demography; ethical issues of stewardship in resource management; political policy issues in energy, materials, food, and air and water pollution.

7325 Applied Resource Economics (3) Application of property rights, externalities, and benefit-cost analysis to resource management; measurement problems; intertemporal allocation, technical changes and resources substitution; and utilization of environmental resources.

7420 Health Care Economics (3) Prereq.: *ECON 4720 or equivalent*. Economics of health care with particular emphasis on demand and supply of health care services; roles of insurance and government in provision of health care services.

7470 Economics of Regulated Enterprise (3) Economic analysis of problems and policies of regulated enterprises, with emphasis on philosophy of regulation, rate theories, earnings control, coordination, and national policy.

7480 Seminar in Industrial Organization (3) Organization of industry in the American economy; empirical and analytical techniques used to investigate structure and performance in the manufacturing sector of the economy.

7570 Seminar in International Finance (3)

7575 Seminar in International Trade (3) Topics in pure theory of international trade; causes and effects of international trade, gains from trade, theory of tariff and effective protection, economic growth and trade, intermediate products, optimal trade policies, factor market imperfections, theory of integration, and effects of uncertainty.

7580 Seminar in Economic Development (3) Prereq.: *consent of instructor*. Third World development from neoclassical, neomarxist, and neomalthusian perspectives.

7585 Advanced Topics in Financial Economics (3) See FIN 7585.

7590 Seminar in Monetary and Fiscal Policy (3) Prereq.: *ECON 7710 and 7630*. Determining, implementing, and evaluating monetary and fiscal policy; effect on the economy,

monetary targets and indicators; role of interest rates in understanding monetary policy, sectoral impacts of monetary policy; role of fiscal policy in the economy.

7595 Seminar in Monetary Theory (3) Contemporary monetary theory; theories of supply and demand; integration of monetary and value theory; monetary equilibrium.

7610 Mathematics for Economists (3) Mathematical principles with frequent applications to economics; functions, derivatives, differentials, integrals, Taylor's series, matrix algebra, determinants, roots, quadratic forms, constrained and unconstrained optimizations, and principles of linear and nonlinear equation systems.

7615 Dynamic Analysis (3) Prereq.: *ECON 7610 or calculus and linear algebra*. Mathematical analysis of dynamic systems with applications to economics; integral calculus, differential equations, difference equations and optimal control theory.

7630 Econometric Methods (3) Prereq.: *calculus and linear algebra, or concurrent enrollment in economics 7610*. For students interested in developing research skills in econometrics. Empirical research methods in economics; statistical inference; regression techniques applied to a general linear model; problems involved in regression analysis; extensions of the general linear model.

7631 Econometric Methods II (3) Prereq.: *ECON 7630 or equivalent*. Econometric techniques for heteroskedasticity, autocorrelation, simultaneous equations, pooling time series and cross-sectional data; model specification techniques.

7632 Econometric Theory III (3) Prereq.: *ECON 7631 and either ECON 7610 or differential calculus and linear algebra*. Emphasis on the pure theory of econometrics; properties of estimators, small sample properties of ordinary least squares, asymptotic distribution theory, generalized least squares and simultaneous equations.

7633 Dynamic Econometric Theory (3) Prereq.: *ECON 7631*. Time-series analysis; testing and model selection; distributed lags; dynamic properties of simultaneous equation model; autoregressive and moving average process; nonstationarity; autoregressive conditional heteroskedasticity; causality and exogeneity; unit root, co-integration, and error correction.

7700 Price Theory I (3) Development of microeconomic models of the individual firm, including a nonmathematical approach.

7710 Macroeconomics I (3) Basic models of income, employment, and prices. The models focus on aggregate demand and supply sectors and include an aggregate demand-supply model in which IS-LM underlies aggregate demand, an introduction to the new Keynesian/new Neo-classical synthesis model, and an introduction to growth theory.

7715 Macroeconomics II (3) Prereq.: *ECON 7710 and 7610 or equivalent*. Dynamic models of the economy; includes growth models, business cycle dynamics, and wage-price dynamics.

7720 Price Theory II (3) Prereq.: *ECON 7610 or equivalent*. Theories of utility, demand, cost, production, factor pricing, and welfare using an advanced mathematical approach.

7725 Advanced Microeconomic Theory (3) Prereq.: *ECON 7610, 7700, and 7720; or equivalent*. Advanced price theory; capital theory, general equilibrium, distribution theory, market structures.

7735 Macroeconomics III (3) Prereq.: *ECON 7715 and 7630*. Advanced dynamic general equilibrium models; includes recursive methods, real business cycle models, new-Keynesian economics, asset pricing models, endogenous growth theories, and empirical tests of these models.

7740 History of Economic Thought: The Classical Period (3) Development of economics as an autonomous science; Greek, Judeo-Christian, and enlightenment approaches to economic phenomena; special attention to Adam Smith.

7750 History of Economic Thought: Modern Period (3) Development of economics from 1800 to 1900; emphasis on classical followers of Smith, Marx, 19th century positivism and socialism, the marginal revolution.

7799 Seminar in Advanced Economic Problems (3) May be taken for a max. of 6 hrs. of credit.

8900 Pre-dissertation Research (1-9) May be repeated for credit. Pass-fail grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

EDUCATION • EDUC

2000 Special Topics in Education (1-3) Prereq.: *consent of instructor*. May be taken for a max. of 9 sem. hrs. of credit. Methods, trends, and issues in education.

EDUCATIONAL LEADERSHIP, RESEARCH, AND COUNSELING • ELRC

GENERAL COURSES

5880 Special Topics in Education (1-3) V Prereq.: *consent of instructor*. May be taken for a max. of 9 sem. hrs. of credit when topics vary. Direction and assistance for the practitioner in solving special problems in school organization.

7299 Introduction to Scholarship in Education (3) Restricted to PhD or EdS students in the department, or permission of instructor. Introduction to scholarship in education and to demands and expectations of doctoral study.

7612 Student Development Theory (3) Explores the development of students in the higher education environment, including theories and research related to intellectual, moral, ego, psychosocial, career, and spiritual development.

7811 Seminar in Current Trends in Education (3) S Open only to students who have completed qualifying examination for the doctoral degree. Current issues and trends; sources, bibliography, and research in the student's major.

7900 Independent Study (1-6) May be taken for a max. of 12 sem. hrs. of credit. Open to advanced graduate students. Directed individual study under the guidance of a graduate faculty member.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Pre-dissertation Research (1-9) Prereq.: *consent of department*.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

COUNSELOR EDUCATION

4360 Introduction to School Counseling (3) F Introduction to the design, implementation, management, and evaluation of comprehensive programs.

4361 Counseling Children (3) V Introduction to methods and procedures.

4365 Basic Course in Interpersonal Communication (3) F,S Credit will not be given for both this course and ELRC 7345. Introduction to basic communication skills and counseling techniques.

4600 Counseling for Disabling Conditions (3) S Etiology, identification, and counseling interventions for conditions and disorders which result in disablement and impaired functioning.

4601 Management of Counseling Services (3) Su Case and program management procedures for client rehabilitation.

5300 Special Problems in Guidance and Counseling (3) V Prereq.: *consent of instructor*. 1 hr. lecture; 4 hrs. lab. May be taken for a max. of 9 hrs. of credit when topics vary.

7301 Orientation to the World of Work (3) V Prereq.: *ELRC 7332*. Also offered as HRE 7301. For elementary school counselors. Basic concepts underlying orientation, awareness, and exploration phases of the career development process.

7302 Group Dynamics and Techniques in the Elementary Schools (3) V Prereq.: *ELRC 4361 and 4365*. For elementary school counselors. Dynamics of small group behavior; emphasis on classroom consultation and demonstration procedures.

7330 Group Techniques and Dynamics in Counseling (3) S Dynamics of small group processes, theories of group counseling, and basic group leadership skills.

7331 Counseling Theory and Techniques (3) F Review of major counseling theories and intervention methods.

7332 Educational and Occupational Information (3) V See HRE 7332.

7333 Analysis of the Individual (3) Su Overview of selection, administration, interpretation, and use of assessment and evaluation instruments and techniques in counseling.

7334 Vocational Counseling (3) V Prereq.: *ELRC 7332 or equivalent*. Also offered as HRE 7334. Materials and techniques in vocational counseling of adolescents and adults.

7345 Counseling Skills and Interventions (3) S Credit will not be given for both this course and ELRC 4365.

Overview of counseling techniques and interventions to facilitate client engagement in the counseling process.

7360 Counseling Practicum in Elementary Schools (3-6) F,S Prereq.: *consent of instructor*. 2 hrs. conf.; 6-18 hrs. lab in work setting. Supervised experience in elementary schools.

7362 Practicum in School Counseling (3-6) F,S Prereq.: *ELRC 4360, 4365, 7330, 7331, 7395, and consent of instructor*; 6-18 hrs. lab in work setting. Supervised experience in elementary, middle, or high school settings.

7364 Community Agency Counseling Practicum (3-6) F,S Prereq.: ELRC 4365, 4600, 4601, 7330, 7331, 7395, and consent of instructor. 2 hrs. conf.; 1 hr. lab; 6-18 hrs. lab in a work setting. Supervised clinical experience in community agency settings (e.g., counseling center, mental health center).

7365 Seminar in Counseling (3) Prereq.: ELRC 4365 and 7331; or equivalent. May be taken for a max. of 6 hrs. of credit when topics vary. Consultation with professor and peers regarding problems encountered in implementing counseling services.

7390 Advanced Counseling Theory and Techniques (3) Su Prereq.: ELRC 7331 or equivalent. Theoretical approaches to individual counseling.

7391 Counseling Across the Lifespan (3) Su Assessment of the comprehensive development of clients and design of developmentally appropriate counseling interventions.

7392 Advanced Vocational Counseling (3) V Prereq.: ELRC 7334 or equivalent. Also offered as HRE 7392. Life career planning through vocational assessment and counseling; vocational counseling theory, research, and practice.

7393 Multicultural Counseling (3) Su Overview of cross-cultural counseling skills and review of factors which influence the behaviors of individuals from diverse populations.

7394 Advanced Group Counseling (3) S Prereq.: ELRC 7330 or equivalent. Small group counseling approaches.

7395 Family Counseling (3) F,S Introduction to family system principles and their application to problem assessment, including family dynamics, family assessment, developmental stages, ethical and cultural issues.

7396 Advanced Family Counseling (3) S Prereq.: ELRC 7395 or equivalent. Practice in assessing family dynamics; supervised experience in developing and implementing therapeutic interventions.

7397 Special Topics in Counseling (3) F,S,Su Prereq.: consent of instructor. 1 hr. lecture; 4 hrs. lab. May be taken for a max. of 6 hrs. of credit when topics vary.

7398 Field Experiences in Vocational Counseling (3) F,S,Su Prereq.: ELRC 7332 and 7334. 1 hr. lecture; 4 hrs. lab. May be taken for a max. of 6 hrs. of credit. Also offered as HRE 7398.

7399 Supervised Counseling Internship (3-9) F,S Prereq.: ELRC 7360, 7362, or 7364 and consent of instructor. 2 hrs. conf.; 20-40 hrs. per week at a clinical setting, serving children, adolescents, adults, or families. May be taken for a max. of 9 hrs. of credit.

EDUCATIONAL ADMINISTRATION

4400 Introduction to Educational Administration (3) F,S,Su Organization of the American educational enterprise; economic, political, social, and cultural forces that affect the administration of American education.

7400 Problems of Educational Finance (3) F,Su Financing public elementary and secondary schools in terms of federal, state, and local sources of revenue, tax structures, budget preparation, and cost analysis.

7401 Administration of School Personnel (3) S,Su Role of the school administrator in personnel planning, staff development, and employee relationships.

7402 Organizational Research in Educational Administration (3) Prereq.: ELRC 4400 and consent of instructor. Primarily for doctoral students in educational administration. Research, bibliography, and source materials; critical examination of organizational research studies.

7403 The Principals in Elementary and Secondary Schools (3) F,S,Su Prereq.: ELRC 4400 or equivalent. Duties and responsibilities of the principal for organization, administration, and supervision of elementary and secondary schools.

7404 Internship in Educational Administration (3-6) F,S,Su Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. of credit. For advanced graduate students qualified for internship in educational administration. Pass-fail grading.

7406 Supervision of Child Welfare and Attendance (3) V Prereq.: ELRC 4400 and 7450; or equivalent. Role and function of the supervisor of child welfare and attendance; seminars, field study, and individual research; legal provisions, history, and philosophy.

7407 Politics, Policy, and Administration in Education (3) Prereq.: ELRC 4400 and consent of instructor. Primarily for doctoral students in educational administration. Critical analysis of educational policy and its development.

7408 School and Community Relations (3) F,S,Su Prereq.: ELRC 4400. Analysis of community demands on schools; organizational response from social science perspectives.

7409 Seminar in Educational Leadership (3) Prereq.: ELRC 4400. Exploration of theories of leadership, leading and empowerment, critical thinking, reflective practice, and school administration; school restructuring, leadership in unique contexts, and directions in educational change and

reform.

7410 Cultural and Political Issues in Urban School Leadership (3) Focus on the role of leaders, including the principal, in urban schools; impact of societal factors on school leaders in urban elementary and secondary schools.

7422 Introduction to School Improvement/Action Research (3) F School effectiveness research; teacher effectiveness research; school improvement; action research; based on the knowledge of these literatures, students will be required to develop a research proposal whose objective is to improve school and/or faculty performance.

7423 Advanced School Improvement/Action Research (3) S Prereq.: ELRC 7422. Students refine and administer an action research project at a selected school site. Students will assess the success of their interventions through multiple measures and write a research report that reflects their experiences throughout the semester. In class discussions focusing on methodological difficulties that students encounter and how to overcome them.

7430 Best Practices of School Leadership I (6) Knowledge and experiential base to support decision making and action at a level of whole school responsibility.

7431 Best Practices of School Leadership II (6) F,S Prereq.: ELRC 7430. Second course in a two course sequence. Provides a knowledge and experiential base to support decision making and action at a level of whole school responsibility.

7450 Supervision of Instruction in Elementary and Secondary Schools (3) F,S,Su Theories, principles, and practices concerning the role of the supervisor in today's multicultural school settings.

7451 Supervision of Student Teaching (3) F,S,Su Principles of planning, observing, and evaluating student teaching; participation in student conferences.

7602 Organization and Administration of Higher Education (3) S Organization and administration of postsecondary education in the United States and abroad; organizational theory; organization and governance structure of American higher education; patterns of institutional administration.

7800 Economics of Education (3) Prereq.: ELRC 7400 or equivalent. Introduction to human capital theory; emphasis on costs and benefits of education, benefit-cost analysis; educational productivity; education and economic growth; and educational planning.

7802 Theory Development in Educational Administration (3) Prereq.: ELRC 7006, 7402, and 7407, or equivalent; and consent of instructor. Primarily for doctoral students in educational administration. Critical analysis of approaches to inquiry; development of theory in educational administration.

7805 Perspectives on Leadership (3) F,S,Su Examines theories and practices of leadership from multiple perspectives.

7806 Leadership for Learning (3) Prereq.: 7805 or equivalent. Primarily for doctoral students in educational leadership and technology. Examination of leadership theories and practices relevant to K-12 school settings.

7840 Educational Facility Planning (3) F,S,Su For school administrators. Problems in school construction.

7870 Legal Aspects of Education (3) F,S,Su Prereq.: ELRC 4400 and 7450. Case law and its implications for teachers and administrators.

7890 Seminar: Educational Administration (1-3) Prereq.: master's degree. May be taken for a max. of 9 sem. hrs. of credit when topics vary. Advanced topics in educational administration.

EDUCATIONAL FOUNDATIONS

3600 Women, Gender, and Leadership (3) Also offered as WGS 3600.

4000 History of Education (3) F,S,Su Development of formal and informal education in multicultural settings from earliest times to the present.

4001 History of American Education (3) F,S,Su Cultural diversity and the response of educational thought and practice in America from colonial times to the present.

4002 Survey of Philosophy of Education (3) F,S,Su Key theories of human nature, culture, and society and their bearings on education.

4003 Cultural Pluralism in American Education (3) Basic features of major cultures in American society; their impact on American education; historical approaches to educating persons of different cultures; changing roles of schools in responding to cultural pluralism.

7000 Seminar in Philosophy of Education (3) Su Prereq.: ELRC 4002. Theories of education and schooling with special focus on the context of pluralistic societies.

7001 Ethics and Educational Leadership (3) S,Su Study of ethical theory, judgement, and practice in educational contexts.

EDUCATIONAL RESEARCH

3200 Classroom Assessment (3) F,S,Su Prereq.: credit or registration in a methods course appropriate to the student's teaching level or major or minor. Principles and techniques in development, administration, scoring, and evaluation of written, performance-based, and other forms of classroom assessment; applications of technology in classroom assessment.

4006 Introduction to Applied Statistics in Educational Research (3) F,Su Basic descriptive and inferential statistics in educational research; systematic examination and interpretation of statistical information in published educational research.

4200 Introduction to Educational Measurement (3) F,S,Su Basic theory of educational measurement; assessment in the school setting; test construction and use; evaluation and applications of standardized tests; measurement in multicultural settings.

4249 Understanding and Applying Research in Education (3) F,S,Su For the specialist or nonthesis master's degree student. Instructing teachers and administrators to become intelligent consumers of research.

7006 Educational Statistics (4) F Prereq.: ELRC 4006 or equivalent. 3 hrs. lecture; 2 hrs. lab. Descriptive and inferential statistics in educational research, computerized data analysis using SPSS or SAS; correlation and regression; normal, t, chi-square, and F distributions; hypotheses testing and interval estimation; analysis of variance, nonparametric chi-square test.

7010 Principles of Testing and Measurement (3) Prereq.: ELRC 7006. Construction of measurement instruments for research purposes; utilization of standardized tests and inventories in research; measurement in multicultural and cross-cultural contexts; implications of measurement reliability and validity for research design and statistical analysis.

7016 Advanced Educational Statistics (4) Prereq.: ELRC 7006 or equivalent. 3 hrs. lecture; 2 hrs. lab. Advanced statistical procedures and computerized data analysis using SPSS or SAS; analysis of variance and covariance; application of multiple regression techniques in educational research.

7018 Advanced Computerized Data Analysis for Research (3) Prereq.: ELRC 7016 or equivalent. Utilization of standard statistical packages such as SPSS and SAS for analysis of research data with complex structure; preparation and analysis of multi-level, nested, and repeated measures data; hands-on training in design, statistical analysis and interpretation of complex data files; review and application of specialized data analysis programs in educational research.

7201 Theory of Educational Measurement (3) F Prereq.: ELRC 4200. Principles of psychometric theory as applied in the educational setting; classical measurement theory and recent psychometric techniques such as item-response theory and criterion-referenced measurement.

7202 Seminar in Educational Measurement (3) Su Prereq.: ELRC 7006 and 7201. Basic theories and problems in educational measurement.

7203 Computer Assisted Testing (3) Prereq.: ELRC 7006. Computer adaptive testing; computerized item and test development; continuous and intelligent measurement; analyzing and reporting test results; legal issues and professional standards.

7220 Education Program Evaluation (3) F Prereq.: ELRC 4249 and either ELRC 4006 or 7006. Current models and issues in educational evaluation as a professional practice; design and development of a comprehensive evaluation plan that includes specification of theoretical framework, problem identification, data collection/analysis procedures, report writing format, and dissemination plans.

7221 Performance Evaluation in Education (3) S Prereq.: ELRC 4200 and 4249; or equivalent. Current procedures and research concerning performance evaluation of students, teachers, and administrators; methodological, professional, and legal issues.

7241 Educational Research Methodology (3) F,S Prereq.: ELRC 4006 or 7006. Completion of a research proposal, preferably a pre-dissertation proposal, is required. Comprehensive and general review of qualitative and quantitative research methods in education.

7242 Experimental and Quasi-Experimental Designs in Educational Research (3) F,S Prereq.: ELRC 7016 and 7241. Experimental and quasi-experimental designs in educational research, including nested and block designs and evaluation of internal/external validity; design and implementation of projects; analyzing variance data through computer programs; advanced analysis of variance and covariances; multiple regression.

7243 Qualitative Methods in Educational Research (4) S Prereq.: ELRC 4249 or 7241. 3 hrs. lecture; 2 hrs. lab. Introduction to qualitative research traditions and methods

in education, including: ethnography, grounded theory, and case study; major methods including observational techniques, interviewing, and document analysis; philosophical issues regarding the qualitative research approach; emphasis on qualitative data analysis, including the use of computer programs, such as ATLAS.ti.

7248 Introductory Research Practicum (3) F By arrangement with a state agency, a local school system, or other educational agency, students assist in the conducting of a variety of research methodologies under the supervision of the course instructor and the professional practice supervisor at the site.

7249 Advanced Research Practicum (3) Prereq.: ELRC 7248. By arrangement with a state agency, a local school system, or other educational agency, students assume a leadership role in conducting research studies under the supervision of the course instructor and the professional practice supervisor at the site.

7251 Technology Systems in Educational Research (3) Prereq.: ELRC 4507 and 4249 or permission of instructor. 2 hrs. lecture; 2 hrs. lab. Technology innovations and models that facilitate educational research; telecommunications and technology transfer; computer-assisted assessment; technology-based data collection devices; computer analysis of text-based data; computer-aided dissemination of data.

7260 Advanced Methods in Educational Program Evaluation (3) Prereq.: ELRC 7220. Evaluation of a selected educational program; establishing program parameters; formative/summative evaluations; guides for conducting evaluations and small experiments; report writing.

7263 Advanced Qualitative Methods in Education (3) Prereq.: ELRC 7243. Construction of a case study of an educational institution or an individual's life; single- and multiple-case designs; analyzing case study evidence; report writing.

7270 Mixed Methods Research in Education (3) Prereq.: ELRC 4249 or 7241. Mixed methods as a separate research methodology integrating both the quantitative and the qualitative approaches.

7280 Content Analysis (3) Prereq.: ELRC 4249 or 7241. Principles, theories, and strategies for systematically examining the content of textual and other mediated communication.

7290 Seminar: Educational Research Methodology (1-3) May be taken for a max. of 9 sem. hrs. of credit when topics vary. Advanced topics in educational research methods.

EDUCATIONAL TECHNOLOGY

2507 Introduction to Classroom Technology

(3) Introduction to technology tools and effective technology integration methods to enhance student learning.

3500 Utilization of Instructional Materials (3) F,S,SU Open only to candidates for teacher certification. Basic techniques for preparing effective instructional materials.

4501 Selection and Utilization of Educational Media (3) Introduction to instructional technology; characteristics of media, objective specifications, and evaluation of instructional modules and systems.

4507 Computer Technology in Education (3) Applications of computers in instruction; educational data processing, computer-assisted and computer-managed instruction; information storage and retrieval; use of micro/mini computers.

4512 Fundamental Computer Science for Teachers (3) Prereq.: ELRC 4507 (or prior programming experience) and credit in an education methods course numbered 3000 or above. See CSC 4602.

4535 Educational Telecommunications and the Internet (3) S Prereq.: ELRC 4507 or equivalent. 2 hrs. lecture; 2 hrs. lab. Use of telecommunication tools found in educational settings; integration of telecommunications resources into instruction; research using the World Wide Web; design, development, and evaluation of Web-based materials that include multimedia; security and legal issues; configuration of school and district networks; distance education applications; and emerging trends and research issues.

5505 Production of Instructional Materials (3) Instructional graphics production techniques; principles of visual design and instructional message design.

7240 Critical Analysis of Current Research in Educational Media (3) Su Prereq.: ELRC 4501, 4507, or equivalent. Analysis of current literature in the field; evaluation of current and needed research; systems approach to solving instructional problems.

7420 Administration of Technology Programs (3) S Prereq.: ELRC 4501 or 4507 or consent of instructor. Primarily for personnel responsible for planning, implementing, and evaluating educational technology programs. Topics include applications, facilities, finances, acquisitions, and staff development.

7500 Technology in Educational Leadership (3) F,S,SU Overview of salient advances in theory, research, and practice

in educational technology; examining leadership roles in regard to emerging trends and issues in educational technology; analyzing current technology integration models.

7502 Principles of Distance Education (3) F,S,SU Prereq.: ELRC 4507 or consent of instructor. Applications of the principles of distance education to teaching and learning in educational and training contexts.

7503 Instructional Design (3) F Prereq.: ELRC 4507 or approved equivalent. Instructional design theories and models and their application in solving real world instructional/learning problems.

7504 Educational Technology and the Law (3) Legal issues concerning educational technology.

7505 Design and Development of Multimedia Instructional Units (3) Prereq.: ELRC 4507 and 7503; or equivalent. Instructional design for computer-assisted instruction; emphasis on learning theory, events of instruction, structuring instructional sequences for maximum content retention.

7509 Authoring Systems for Educators (3) Prereq.: ELRC 4507 and 7505; or equivalent. 2 hrs. lecture; 2 hrs. lab. Authoring systems, with emphasis on Super PLOT and LOGO for individualized learning; system variables, transfer and portability parameters, student involvement, alternative systems, and formative and summative evaluation procedures.

7516 Practicum in Educational Media (3-6) F,S,SU Prereq.: ELRC 7420 or 7505; or consent of instructor. 9-18 hrs. lab. Practical experience in teaching, producing, utilizing, and administering educational media.

7517 Seminar in Educational Media (3) Prereq.: ELRC 7240 and 7420; or consent of instructor. Advanced topics in instructional technology.

7520 Educational Technology in Business, Industry, and Government Agencies (3) Prereq.: ELRC 7503 and one of the following: ELRC 5505, 7502. Techniques used to meet training and development needs in business, industry, and governmental agencies.

7525 Professional Development for K-12: Technology Integration (3) F Analyze effective professional development strategies; plan, design and implement, and evaluate technology staff development activities.

7535 Advanced Telecommunications and Electronic Learning (3) F,S,SU Prereq.: ELRC 4507 or consent of instructor. Scope and elements of the online environment; technologies and strategies for online teaching and learning; design, development, or conversion of courses for online delivery; course management, assessment, and evaluation; policy issues.

7550 Theory and Research in Educational Technology (3) Prereq.: ELRC 7240 and 7503. For advanced graduate students. Theoretical foundations and research in educational technology; emphasis on theories of communication, learning theories, educational psychology, and behavioral sciences.

7791 Educational System Analysis (3) V Prereq.: completion of 3 sem. hrs. in educational administration or equivalent. Basic techniques for designing instructional systems; emphasis on instructional objectives; design and selection of instructional alternatives; and evaluation of instructional systems.

HIGHER EDUCATION

4364 Student Affairs in Higher Education (3) V Basic concepts and issues in the college student affairs field.

7600 Issues of Race and Gender in Higher Education (3) Historical and socio-political perspectives on the higher education experiences of women, African-Americans, Asian-Americans, and Hispanics, focusing primarily on the period from the 1960s to the present.

7601 Foundations of Higher Education (3) History of the sociological and philosophical foundations for higher education in the United States.

7603 Leadership in Higher Education (3) S Analysis of leadership issues and theory relating to postsecondary education, including the college presidency and academic governance; institutional culture; student diversity, curricular change, and new providers of higher education.

7604 Politics and Policy of Higher Education (3) Political and policy issues surrounding higher education; issues of race and gender, politics, and policy of student loans; policies toward unprepared college students; collective bargaining; the accreditation process.

7605 Higher Education and the Law (3) Legal issues concerning higher education, including tenure, academic freedom, campus crime, sexual harassment, laws against discrimination, student discipline, and liability for accidents and injuries.

7606 Curriculum and College Teaching (3) Critical analysis of college curriculum and approaches to teaching; historical development of curricular models; introduction to teaching and learning theories.

7607 Finance in Higher Education (3) Public policy and

theory of financing higher education; topics include tuition, pricing, tuition policy, financial management of institutions, and financial aid.

7609 Strategic Planning in Higher Education (3) Strategic plans for institutions of higher education; processes by which those plans are developed; higher education strategy within the context of the cultural and competitive environment; emphasis on current topics in organizational strategy.

7610 Assessment and Evaluation in Higher Education (3) Analysis of assessment and evaluation practices in higher education; role of assessment in policy development and strategic planning.

7611 College Students in the United States (3) Critical analysis of issues related to college students in the United States, including access, choice, climate, student organizations, and development and identity.

ELECTRICAL ENGINEERING • EE

2120 Circuits I (3) Prereq.: credit or registration in MATH 2090 and PHYS 2102 required or consent of department. Time-domain analysis of electrical networks.

2130 Circuits II (3) Prereq.: EE 2120 and MATH 2090. Frequency-domain analysis of electrical networks.

2230 Electronics I (3) Prereq.: EE 2120. Terminal behavior of semiconductor devices and basic circuits.

2231 Electronics Laboratory I (2) Prereq.: concurrent registration in EE 2230. 1 hr. lecture; 2 hrs. lab.

2720 Digital Logic I (2) Prereq.: admission to the College of Engineering. Boolean algebra; logic gates; minimization methods; analysis and synthesis of combinational logic networks; design examples.

2730 Digital Logic II (2) Prereq.: EE 2720. Analysis and design of sequential circuits; practical impact of design choices.

2731 Digital Logic Laboratory (2) Prereq.: EE 2730. 1 hr. lecture; 2 hrs. lab. Familiarization with conventional logic gates and flip-flops; design and testing of various combinational and sequential circuits.

2950 Comprehensive Electrical Engineering (3) Prereq.: MATH 1552 or equivalent. For nonelectrical engineering majors. Elementary circuits, devices, and systems in electrical engineering.

3060, 3061 Special Projects (2,2) Prereq.: consent of department. Pass-fail grading. Individual work with instructor on special project selected by instructor and student.

3070 Engineering Practice (3) Prereq.: permission of department and either completion of one co-op session or six months of full time employment in an appropriate area. Pass-fail grading. Written final report required. Work experience in solving electrical and computer engineering problems in an engineering environment.

3140 Probability for Electrical and Computer Engineering (3) Prereq.: MATH 2090. Basic concepts of probability theory with application to electrical and computer engineering; probability axioms; continuous, discrete, and conditional probability density and distribution functions; expectations and characteristic functions; introduction to statistical inference and stochastic processes.

3160 Introduction to Digital Signal Processing (3) Prereq.: EE 3610 or equivalent. Digital processing of continuous-time signals; Discrete-time Fourier transform; z-transform, signals and systems in the transform domains; Digital filter design techniques; Discrete Fourier transform and FFT algorithm.

3220 Electronics II (3) Prereq.: EE 2130, 2230, and 2231. Analysis and design of electronic circuits; emphasis on concepts and device models.

3221 Electronics Laboratory II (2) Prereq.: EE 2231 and concurrent registration in EE 3220. 1 hr. lecture; 2 hrs. lab.

3232 Solid State Devices I (3) Prereq.: EE 2230 and 2130. Physics and analysis of basic semiconductor devices; principles of integrated circuit fabrication.

3320 Electrical and Magnetic Fields (3) Prereq.: MATH 2057 and EE 2130. Maxwell's equations; wave propagation and reflection in isotropic media; static fields.

3410 Electric Power (3) Prereq.: EE 2130. Basic principles of electromechanical energy conversion and power system analysis.

3530 Introduction to Control Engineering (3) Prereq.: EE 2130. Modeling, simulation, realization, analysis, and feedback control design of dynamic systems.

3610 Signals and Systems (3) Prereq.: EE 2130. Methods of analysis of continuous time signals and systems.

3750 Microprocessor Systems (2) Prereq.: CSC 1253 and EE 2730. Theory and design of microprocessors; semiconductor technologies, architectures, assembly language, software development, input/output design, applications, and interfacing.

- 3751 Microprocessor Laboratory (2)** Prereq.: EE 3750. 1 hr. lecture; 2 hrs. lab.
- 3755 Computer Organization (3)** Prereq.: EE 2730 or equivalent. Credit will not be given for both this course and CSC 3501. Structure and organization of computer systems; instruction sets; arithmetic; data path and control design.
- 3775 Data Structures and Object-Oriented Programming (3)** Prereq.: CSC 1254 or 2290. Object-oriented programming, C++, abstract data types.
- 3950 Electronics (2)** Prereq.: EE 2950. For nonelectrical engineering majors. Basic electronics and instrumentation.
- 4000 Special Topics in Electrical Engineering (3)** May be taken for a max. of 6 hrs. of credit when topics vary. Students in curricula other than electrical engineering should consult the instructor. ABET category: 3 hrs. engineering science. Selected topics of current interest.
- 4001 Special Topics in Electrical Engineering (3)** May be taken for a max. of 6 hrs. of credit when topics vary. Students in curricula other than electrical engineering should consult the instructor. ABET category: 1 hr. design; 2 hrs. engineering science. Selected topics of current interest.
- 4002 Special Topics in Electrical Engineering (3)** May be taken for a max. of 9 hrs. of credit when topics vary. Students in curricula other than electrical engineering should consult the instructor. ABET category: 2 hrs. design; 1 hr. engineering science. Selected topics of current interest.
- 4120 Network Analysis (3)** Prereq.: EE 3610 and MATH 2057. ABET category: 2 hrs. design; 1 hr. engineering science. Linear networks, with introduction to filters and network synthesis.
- 4130 Graph Theory (3)** Prereq.: EE 2130 or equivalent. Graph and subgraph properties, graph operations, enumeration techniques, and applications to analysis and synthesis of electric networks; Kirchoff's third and fourth laws.
- 4160 Algorithms and Implementations for Digital Signal Processing (3)** Prereq.: EE 3160 or equivalent. Design algorithms for FIR and IIR filters, adaptive estimation and its applications, and multirate digital signal processing; Digital signal processors and implementations for signal processors for spectrum analysis and estimation, FIR and IIR digital filters, and adaptive echo cancellation.
- 4232 Solid State Devices II (3)** Prereq.: EE 3232. Physics and analysis of advanced semiconductor devices, including photonic and high-frequency devices.
- 4240 Linear Circuit Design (3)** Prereq.: EE 3220 and 3221. Credit or registration in EE 3232. 2 hrs. lecture; 2 hrs. lab. ABET category: 2 hrs. design; 1 hr. engineering science. Fabrication and use of discrete and monolithic integrated circuits; use of building blocks for design of analog systems.
- 4242 VLSI Design (3)** Prereq.: EE 2730, 3220. 2 hrs. lecture; 2 hrs. lab. ABET category: 2 hrs. design; 1 hr. engineering science. Design and implementation of logic gates for application-specific integrated circuits; system design methodology using CMOS technology.
- 4250 Digital Integrated Circuits (3)** Prereq.: EE 3220, 3221, and 3232. 2 hrs. lecture; 2 hrs. lab. ABET category: 2 hrs. design; 1 hr. engineering science. Analysis and design of digital integrated circuit logic gates in bipolar and MOS technology; semiconductor memories and their operations.
- 4260 Semiconductor Measurements and Characterization (3)** Prereq.: consent of department. 2 hrs. lecture; 2 hrs. lab. Properties of semiconductor materials; their influence on device characteristics; bulk measurements such as resistivity, mobility, and lifetime; diffusion profiles and oxide layers; thin film characterization techniques; I-V and C-V measurements; emphasis on silicon.
- 4262 Electronic Instrumentation and Metrology (3)** Prereq.: EE 3220 and 3221 or equivalent. 2 hrs. lecture; 2 hrs. lab. ABET category: 2 hrs. design; 1 hr. engineering science. Application of electronic principles to the design and development of practical systems including instrumentation, data analysis, and metrology; design and construction of term projects.
- 4270 Optical Electronics (3)** Prereq.: EE 3320 or equivalent. 2 hrs. lecture; 2 hrs. lab. Interaction of optical radiation with various media; theory of laser oscillations and specific laser systems; modulation and detection of optical radiation; fiber optic applications.
- 4320 Microwave Engineering (4)** Prereq.: EE 3320 or equivalent. 3 hrs. lecture; 3 hrs. lab. Waveguides, cavities, signal sources, and other microwave devices.
- 4330 Antenna Theory and Design (4)** Prereq.: EE 3320 or equivalent. 3 hrs. lecture; 3 hrs. lab. Antennas and antenna arrays; measurement of impedances and far-zone radiation patterns.
- 4340 Fiber Optic and Microwave Propagation (3)** Prereq.: EE 3610 and 3320 or equivalent. Wave propagation at microwave and optical frequencies in metallic waveguides and optical fibers.
- 4410 Power System Protection (3)** Prereq.: EE 3410 or equivalent. Broad based introduction to utility and industrial power system protection. Topics of study include transmission, distribution, generation, and industrial distribution systems.
- 4422 Electric Machine Design (3)** Prereq.: EE 3410 or equivalent; 2 hrs. lecture, 2 hrs. lab. ABET category: 2 hrs. design, 1 hr. engineering science. Design and performance analysis of electric machines in steady-state and dynamic conditions using a simulation on PC and lab experiments.
- 4430 Power System Analysis (3)** Prereq.: EE 3410 or equivalent. Power system analysis using computer methods; power flow, economic power dispatch, and faults.
- 4445 Power System Operation and Control (3)** Prereq.: EE 3410 or equivalent. Introduction to operation and control of major utility interconnected power system. Control of generation and operation of interconnected utility grid, transmission systems, utility distribution systems, and large industrial power systems.
- 4450 Distribution System Design (3)** Prereq.: EE 3410 or equivalent. ABET category: 2 hrs. design; 1 hr. engineering science. Power distribution systems; emphasis on design and applications.
- 4460 Power Electronics (3)** Prereq.: EE 3220 and 3410. 2 hrs. lecture; 2 hrs. lab. ABET category: 2 hrs. design; 1 hr. engineering science. Design of power semiconductor converters including controlled rectifiers, inverters, ac voltage controllers, and DC-DC converters.
- 4470 Harmonic Filter and Compensator Design (3)** Prereq.: EE 3220 and 3410 or equivalent. ABET category: 2 hrs. engineering design; 1 hr. engineering science. Design of compensators and harmonic filters for distribution systems with nonsinusoidal voltages and currents.
- 4480 Nonsinusoidal Power System Analysis (3)** Prereq.: EE 3610 or equivalent. Analysis of nonsinusoidal systems, harmonic generation, compensation, and filtering.
- 4490 Adjustable Speed Drives (3)** Prereq.: EE 3410, EE 3530. 2 hrs. lecture, 2 hrs. lab. ABET category: 2 hrs. design, 1 hr. engineering science. Design and test of DC and AC motor variable speed drives combined with an analysis of their static and dynamic properties.
- 4560 Introduction to Modern Control (3)** Prereq.: EE 3530. State variable methods for analysis and design of control systems: realization, stability, and stabilization; observers, control design.
- 4580 Topics in Control System Design (3)** Prereq.: EE 3530. ABET category: 2 hrs. design; 1 hr. engineering science. Compensation of single loop and multiloop systems; state estimation; stability; application to industrial controllers; design using computer simulation packages.
- 4585 Discrete Control System Design (3)** Prereq.: EE 3530. ABET category: 2 hrs. design; 1 hr. engineering science. Sampling and reconstruction of signals; analysis and design of sampled data systems; discrete time systems and controllers.
- 4610 Analog Communication (3)** Prereq.: EE 3610 and 3140. Amplitude, frequency, phase and pulse modulation, noise in analog modulation, applications.
- 4625 Digital Communication and Networking (3)** Prereq.: EE 3610 and 3140 or equivalent. Digital coding of analog information, baseband transmission, decision theory, modulation, design considerations, applications.
- 4660 Random Processes I (3)** Prereq.: EE 3140 or equivalent. Probability spaces; random variables and processes; second order processes; spectral analysis; filtering.
- 4700 Special Topics in Computer Engineering (3)** May be taken for a max. of 6 hrs. of credit when topics vary. Students in curricula other than computer engineering should consult the instructor. ABET category: 3 hrs. engineering science. Selected topics of current interest.
- 4701 Special Topics in Computer Engineering (3)** May be taken for a max. of 6 hrs. of credit when topics vary. Students in curricula other than computer engineering should consult the instructor. ABET category: 1 hr. design; 2 hrs. engineering science. Selected topics of current interest.
- 4702 Special Topics in Computer Engineering (3)** May be taken for a max. of 6 hrs. of credit when topics vary. Students in curricula other than computer engineering should consult the instructor. ABET category: 2 hrs. design; 1 hr. engineering science. Selected topics of current interest.
- 4710 Communications in Computing (3)** Prereq.: EE 2730 and 3140 or equivalent. Theoretical and practical factors in designing computer communications networks; communication principles and codes; network topology and architecture; protocol layers; current and advanced applications.
- 4720 Computer Architecture (3)** Prereq.: EE 3750 and 3755 or equivalent. Memory hierarchy; pipelining techniques; design philosophies; parallel computing fundamentals.
- 4740 Discrete Structures for Computer Engineering (3)** Prereq.: EE 2730 or equivalent. Mathematical logic and proof methods; graph theory; complexity of algorithms; algebraic structures; applications in computer engineering.
- 4745 Neural Computing (3)** Prereq.: EE 3750 and MATH 2090. ABET category: 2 hrs. design; 1 hr. engineering science. Neural networks and automata; network architecture; learning models; applications to signal processing, vision, speech, and robotics; VLSI implementations.
- 4750 Microprocessor Interfacing Techniques (4)** Prereq.: EE 3751. 2 hrs. lecture; 6 hrs. lab. ABET category: 2 hrs. design; 2 hrs. engineering science. Theory and design techniques of microprocessor interfaces to memory and input/output devices.
- 4760 Introduction to Compiler Optimization (3)** Prereq.: EE 3755 and CSC 3102. ABET category: 2 hrs. design; 1 hr. engineering science. Processor architecture, source program analysis, compiler optimization techniques, compiler design.
- 4770 Real Time Computing Systems (3)** Prereq.: EE 3750. ABET category: 2 hrs. design; 1 hr. engineering science. Real time computing systems; systems components, architectures, I/O structure, interrupts, interfacing, A/D converters, and multitasking.
- 4780 Introduction to Computer Vision (3)** Prereq.: EE 3750 or equivalent. ABET category: 2 hrs. design; 1 hr. engineering science. Computer processing of images, including image acquisition systems and computer systems for processing images; preprocessing techniques; image segmentation; emphasis on design of image processing software.
- 4785 Introduction to Expert Systems (3)** Prereq.: EE 3750 or equivalent. Introduction to expert systems, including rule-based systems; search strategies; representation and logic programming.
- 4790 Structure of Computers and Computations I (3)** Prereq.: CSC 3102 and EE 3755. Hardware and software complexity analyses; structures of both computers and computations.
- 4810 Senior Design I (3)** Prereq.: EE 3220, EE 3751, senior standing in the College of Engineering, and one of EE 3410, 3530, 3610, or 3755. 2 hrs. lecture, 2 hrs. lab. Senior design projects.
- 4820 Senior Design II (3)** Prereq.: EE 4810. 6 hrs. lab. Continuation of senior design projects from EE 4810. Construction and test.
- 4859 Digital Media Capstone (3)** Prereq.: At least 15 hours credit towards the Digital Media TECH minor. 2 hrs. lecture, 2 hrs. lab. Credit will not be given for both EE 4859 and ART 4059. Culminating capstone project experience requiring interdisciplinary teams to prototype a digital media work or application.
- 7000 Advanced Topics in Electrical Engineering (3)** May be taken for a max. of 12 hrs. of credit when topics vary.
- 7091, 7092 Electrical Engineering Research (3,3)** Prereq.: permission of department and completion of 12 sem. hrs. in the graduate program. Pass-fail grading. Individual study.
- 7100 Advanced Topics in Signal Processing (3)** May be taken for a max. of 12 hrs. of credit when topics vary.
- 7110 Network Analysis and Synthesis (3)** Prereq.: consent of instructor. Network analysis and synthesis, network graph theory, state variable representation of networks, computer-aided analysis and design.
- 7120 Linear Active Network Analysis and Synthesis (3)** Prereq.: consent of instructor. Active network analysis and design, multiport networks, pathological elements, inductorless filter theory.
- 7130 Computer-Aided Network Analysis (3)** Prereq.: consent of instructor. Computer-aided circuit analysis; Gaussian elimination, LU factorization, sparse matrices, Newton-Raphson iteration, Gauss-Jacobi and Gauss-Seidel method, numerical integration; AC, DC, and transient analysis.
- 7150 Theory and Application of Digital Signal Processing (3)** Prereq.: EE 3160 or equivalent. Digital filter design, spectrum analysis, digital hardware implementations, and applications.
- 7200 Advanced Topics in Electronics (3)** May be taken for a max. of 12 hrs. of credit when topics vary.
- 7210 Semiconductor Device Modeling (3)** Systematic modeling of active and passive solid-state devices; modeling theory to relate device physics to circuit performance; selected circuit applications.
- 7220 Semiconductor Devices I: Bipolar (3)** Prereq.: EE 3232 or equivalent. Semiconductor material properties, equilibrium and nonequilibrium processes, physical principles of p-n junctions, and quasi-neutral material; modeling of diodes and bipolar transistors.
- 7222 Semiconductor Devices II: Field Effect (3)** Prereq.: EE 3232 or equivalent. Surface effects; metal-insulator-semiconductor structure; modeling of MOS capacitors and IGFETs.
- 7230 Physics of Device Electronics (3)** Semiconductor physics and necessary assumptions for tractable device analysis; elements of statistical physics, transport phenomena in solids, band theory of solids, and semiconductor junctions.
- 7232 Small-Geometry and High-Speed Devices (3)**

Prereq.: EE 7230 or equivalent. Charge carrier transport in small and high-electron mobility semiconductor devices, hot-electron effects, size effects and heterojunction boundaries, heterostructure devices, tunneling devices, ballistic transport devices, and surfaces and interfaces in heterostructures.

7240 Integrated Circuit Engineering (3) Fabrication processes and device design for monolithic integrated circuits; relation to circuit performance; thin- and thick-film circuits.

7242 VLSI Systems (3) *Prereq.: consent of instructor.* Design and implementation of very large scale integrated systems; structured design methodology using MOS technology.

7244 Advanced Lithography and Metrology (3) *Prereq.: EE 7240 or consent of instructor.* Physical principles used in state-of-the-art microlithography; optical systems, x-rays, e-beams, resists, measurement and inspection techniques.

7246 Integrated Sensors and Actuators (3) *Prereq.: EE 7240 and EE 4242 or consent of instructor.* Sensor principles and design considerations; bulk and surface micromachining fabrication technologies including LIGA; microactuators and microelectromechanical devices; integration of sensors/actuators and electrical circuitry on the same chip.

7248 Mixed-Signal Integrated Circuit Design (3) *Prereq.: EE 4240 and 4242 or consent of instructor.* Design and technology of analog and mixed analog-digital integrated circuits for signal processing including applications; mixed-signal integrated circuit testing and measurements.

7250 Semiconductor Power Devices (3) *Prereq.: EE 3232 or equivalent.* Operation and characteristics of semiconductor energy conversion devices with emphasis on physical mechanisms involved; fabrication of energy conversion devices.

7260 Semiconductor Materials (3) Theory and application of crystal growth from melt and chemical vapor deposition; preparation and purification of elemental and compound semiconductors; structural properties and their effect on electrical and physical parameters; amorphous semiconductors.

7270 Magnetic Materials and Devices (3) *Prereq.: EE 3320 or equivalent.* Theory of magnetism, domain structures, and magnetic memory; current developments and applications of magnetic devices.

7310 Electromagnetic Theory and Techniques (3) Electromagnetic theory applied to radio propagation, waveguides, and microwave systems.

7350 Boundary Value Problems in Engineering (3) *Prereq.: consent of instructor.* Separation of variables method for solving certain classical partial differential equations, including properties of special functions and their applications to engineering problems.

7400 Advanced Topics in Power (3) *May be taken for a max. of 12 hrs. of credit when topics vary.*

7410 Faulted Power System Analysis (3) Development of positive, negative, and zero sequence parameters of power system components and their application in a variety of power system fault conditions.

7420 Power System Dynamics (3) Modern approach to power system transient and dynamic stability studies; detailed synchronous machine models; their linearizations, excitation systems, and multimachine system stability analysis.

7422 Advanced Electric Machines *Prereq.: EE4422 or consent of instructor.* Topics on special purpose electric motors used in automation, robots, and electric or magnetically levitated vehicles.

7430 Power System Reliability (3) Reliability analysis of power systems, including generation, transmission, and distribution.

7440 Power Transmission and Control (3) *Prereq.: EE 4460 or equivalent.* Analysis of HVDC transmission systems; high power switches and limitations; converter circuits, modeling control, and stability analysis of dc transmission; misoperation of converters; protection, harmonics, and filters.

7450 Power System Protection (3) Identification of conditions requiring protection; special problems associated with protection of various system components; protection devices, and their application.

7460 Static Power Converters (3) *Prereq.: EE 4460 or equivalent.* Design of power converters and ac drives, including voltage controllers, PWM inverters, cycloconverter and switched-mode power supplies.

7470 Power Generation and Control (3) *Prereq.: EE 4430 or equivalent.* Economic dispatch for thermal and hydroelectric power generation systems; control of power generation.

7480 Harmonics in Power Systems (3) *Prereq.: EE 4480 or equivalent.* Power flow in nonsinusoidal systems, measurements, compensation, symmetrization, and harmonic suppression.

7490 Advanced Electrical Drives (3) *Prereq.: EE 4420, 4490, or consent of instructor.* Advanced topics in electric drives including vector control of induction motor drives and permanent magnet synchronous motor drives.

7500 Advanced Topics in Controls (3) *May be taken for a max. of 12 hrs. of credit when topics vary.*

7510 Advanced Linear Systems (3) *Prereq.: EE 4560 or equivalent.* Modern approaches for the analysis and identification of linear, discrete and continuous time, control systems; state variable and fractional description techniques, functional analytic methods.

7520 Optimal Control Theory (3) *Prereq.: EE 4560 or equivalent.* Dynamic optimization applied to control systems; minimum principle, Hamilton-Jacobi-Bellman theory, dynamic programming, gradient algorithms, and functional analytic methods.

7525 Robust Control (3) *Prereq.: EE 4560 and 4580.* Internal stability, model uncertainty, robust stability, robust performance, controller parameterizations, design limitations, loop shaping H_{∞} control and other optimal robust control design techniques.

7530 System Identification (3) *Prereq.: EE 4560, 4660 or equivalent.* Conventional parameter estimation and adaptive modeling; control oriented identification; model uncertainties; model validation; review of research literature on system identification.

7540 Optimization of Stochastic Dynamic Systems (3) *Prereq.: EE 4560 and 4660 or equivalent.* Optimal estimation problem, optimal control problem, and the separation principle of optimal stochastic control theory; Kalman filters, diffusion models, nonlinear filtering, optimal control discrete-time and continuous-time stochastic systems.

7560 Topics in Modern System Science (3) *Prereq.: EE 4560 or equivalent.* Research literature, operator theory and functional analysis applied to control engineering problems.

7570 Nonlinear System Analysis (3) *Prereq.: EE 4560.* Systems approach to study of nonlinear systems; includes limit cycles, analytical approximation methods, singular perturbations, describing functions, Liapunov's stability, Lure's problem, Popov criteria, and input-output stability.

7580 Computer Process Control (3) *Prereq.: EE 4585 or equivalent.* Theory and equipment for the implementation of computer-based control systems; includes supervisory, DDC, and hierarchical configurations, process and operator interface, real-time operations, industrial computer control systems; implementation of advanced control algorithms, time series analysis, and online process optimization.

7585 Advanced Digital Control Systems (3) *Prereq.: EE 4585 and EE 4560.* Theory and design of sampled-data control systems: including discretization of continuous-time systems and lifting of sampled-data systems; performance analysis in frequency and time domain; design techniques based on optimal controls; robustness analysis of sampled-data feedback control systems under plant perturbations.

7600 Advanced Topics in Communications (3) *May be taken for a max. of 12 hrs. of credit when topics vary.*

7610 Analog Communication (3) *Prereq.: EE 4660 or equivalent.* Random waveforms, receiver design, linear and nonlinear modulation; pulse modulation.

7615 Digital Communication I (3) *Prereq.: EE 4660 or equivalent.* Decision theory, geometric representation of signals, optimum receiver principles, digital modulation schemes, bandwidth and power efficiency, coded modulation.

7625 Advanced Topics in Digital Communications (3) *Prereq.: EE7615 or equivalent.* Time and Frequency domain approaches to transceiver design for communication over frequency selective, inter-symbol-interference (ISI) and multiuser channels.

7630 Detection and Estimation Theory (3) *Prereq.: EE 4660 or equivalent.* Hypothesis testing, detection of known and unknown signals, estimation of signal parameters, signal resolution.

7640 Information Theory, Coding, and Cryptography (3) *Prereq.: EE 4660 or equivalent.* Measures of information, channel capacity, Shannon and Huffman coding, rate-distortion theory, linear codes, cyclic codes, BCH and Goppa codes, convolutional codes, problems of data security, probabilistic ciphers, computational complexity ciphers.

7660 Random Processes II (3) *Prereq.: EE 4660 or equivalent.* Sequences of random variables, renewal processes, Markov chains, and queueing models.

7670 Communication Networks (3) *Prereq.: EE 7660.* Protocols, performance, and implementation of the data link layer and the network layer of communication networks.

7672 Switching and Broadband Networks (3) *Prereq.: EE 7660.* Theory, implementation, and performance analysis of switch architectures and broadband integrated networks; traffic and congestion control.

7674 Wireless Communication Networks (3) *Prereq.: EE 7615.* Theory, implementation, standards, and security issues in mobile wireless communication networks.

7700 Advanced Topics in Computer Engineering (3) *May be taken for a max. of 12 hrs. of credit when topics vary.*

7710 Advanced Digital Logic (3) *Prereq.: EE 3750 or equivalent.* Mathematical foundations of Boolean algebra; vector switching functions, Boolean differential calculus, and

fault detection.

7715 Computer Arithmetic (3) *Prereq.: EE 3755 or equivalent.* Number systems; arithmetic algorithms; high performance adders, multipliers, dividers; floating-point arithmetic; residue number systems; hardware implementation.

7720 Advanced Computer Architecture (3) *Prereq.: EE 4720 or equivalent.* High performance computer architectures; vector processing; parallel processing and interconnection networks.

7725 Interconnection Networks (3) *Prereq.: EE 4720 or equivalent.* Interconnection network theory, analysis, and implementation; shared memory, coherent caches, and related topics.

7728 Multiprocessor Computer System Design (3) *Prereq.: EE 4720 or equivalent.* Symmetric shared memory multiprocessors, distributed shared memory systems, simultaneous multithreading, and chip-multiprocessors.

7730 Image Analysis I (3) *Prereq.: EE 3120 or equivalent.* Basic fundamentals and techniques of digital image processing; hardware and software, applications, 2 D transforms, preprocessing, texture analysis, and edge detection; emphasis on application of theory to practical problems.

7740 Image Analysis II (3) *Prereq.: EE 4660 and 7730.* Continuation of EE 7730. Formal mathematical treatment of image segmentation, shape analysis, texture analysis, and scene analysis.

7745 Neural Networks and Iterative Maps (3) *Prereq.: EE 4745 or equivalent.* Neural network approach to artificial intelligence; general properties of iterative maps; mapping networks for pattern recognition; optimization; genetic algorithms; implementation issues.

7750 Machine Recognition of Patterns (3) *Prereq.: EE 4660 or equivalent and knowledge of programming language.* Decision functions; Bayesian decision theory; cluster analysis; design of deterministic, stochastic, and fuzzy classifiers; unsupervised learning; feature selection.

7760 Logic Testing and Testable Design (3) *Prereq.: EE 3755 and EE 3140 or equivalent.* Switch level fault models, test generation for combinational and sequential circuits, VLSI testing, design for testability.

7765 Distributed Computing System Reliability (3) *Prereq.: EE 3140 and 4720 or equivalent.* Reliability measures, standards, evaluation, and bounds; multimode and statistical dependent failure analysis; distributed and parallel system reliability and availability, graceful degradation, performance; software reliability.

7770 Internetworking Principles (3) *Prereq.: EE 4710 or equivalent.* Internet concepts, networks, and transport layers, IP switching, Routing techniques, Internet security, Firewalls.

7780 Software Design Principles (3) *Prereq.: CSC 3102 or equivalent.* Engineering approach to computer software development; structured and modular programming concepts; software design and management; program testing and correctness proofs; diagnostic tools; software measures; other topics from software engineering.

7785 Program Parallelization (3) F *Prereq.: EE 3755 or equivalent.* Analysis and optimization of programs for a variety of architectures; impact on architectural design.

7790 Structure of Computers and Computations II (3) *Prereq.: EE 4790 or consent of instructor.* Mathematical treatment of space and time complexity of computations; formal models of computers and computations.

7795 Models and Methods for Parallel Computation (3) *Prereq.: EE 4740 or consent of instructor.* Abstract models of parallel computation; algorithms, complexity, and simulations.

8000 Thesis Research (1-12 per sem.) *Prereq.: permission of department. "S"/"U" grading.*

9000 Dissertation Research (1-12 per sem.) *Prereq.: permission of department. "S"/"U" grading.*

ENGINEERING • ENGR

1050 Introduction to Engineering (2) Introduction to engineering history, disciplines, and principles of design.

2050 Undergraduate Seminar (1) *For engineering students only. Pass-Fail grading.* Topics related to academic, professional and career development for engineering students. Speakers will include on-campus representatives, industrial, governmental and consulting professionals, and education experts.

9000 Dissertation Research (1-12 per sem.) *"S"/"U" grading.*

ENGLISH • ENGL

Students who are not exempt will be required to pass one, two, or three English composition courses. Placement level depends on ACT/SAT/AP scores, a placement theme, or prior college credit. Required courses must be taken progressively. The completion of English 2000 or its equivalent (English 1005 for international students, or approved transfer credit) is required of all students.

The satisfactory completion of English 1001 or equivalent credit is prerequisite for all English courses numbered 2000 and higher.

General education courses are marked with stars (★).

0004 English Composition (5) For international students whose diagnostic tests indicate the need for intensive writing skills. Pass-no credit grading. Not for degree credit. Required during the first semester of residence for all international students (graduates, undergraduates, and transfer students) who are not excused on the basis of the placement examination required of every new international student.

★ **1001 English Composition (3)** Placement by department. Introduction to writing in forms of expressive and informative discourse.

★ **1004 English Composition (3)** Prereq.: ENGL 0004 or placement by department. For international students. Same as ENGL 1000/1001, with emphasis on usage and idiom problems specific to international students. Required during the first semester of residence for all international students (graduates, undergraduates, and transfer students) who demonstrate on the placement examination need for work in English, but not at the intensive level of ENGL 0004. Graduate students graded pass-no credit.

★ **1005 English Composition (3)** Prereq.: ENGL 1004 or placement by the department and permission of instructor. Credit will not be given for both 1005 and ENGL 2000. For international students, with continued work on problems specific to international students. Graduate students graded pass-no credit.

1051 Spoken English for International Graduate Assistants (3) Prereq: oral interview and permission of department. For current and potential international graduate assistants only. Pass/no credit grading. May be taken for a max. of 9 sem. hrs. of credit. Developing spoken English skills (pronunciation, stress, intonation, rhythm); improving overall comprehensibility through tasks/activities, drills, and videotaped oral presentations.

★ **2000 English Composition (3)** Prereq.: ENGL 1001 or equivalent and 39 total credit hours earned by the time of enrollment. Practice in the processes of academic and applied writing.

2001 Advanced English Composition (3) Credit will not be given for both ENGL 2001 and 3101. Theory and practice of exposition, description, and narration.

2002 Business Writing (3) Credit will not be given for both ENGL 2002 and 2102. Preparing business documents such as reports, articles, and letters.

2005 Introduction to Writing Short Stories (3) Prereq.: ENGL 2024, 2025, 2027, 2029, 2123, 2148, 2201, 2202, 2231, 2270, 2593, 2673, or 2674. Writing short stories for workshop criticism; practice in techniques of using point of view, dialogue, setting, and characterization.

2007 Introduction to Writing Poetry (3) Prereq.: 3 hrs. from ENGL 2024, 2025, 2027, 2029, 2123, 2148, 2201, 2202, 2231, 2270, 2593, 2673, or 2674. Writing poems for workshop criticism; practice in both open and closed forms; emphasis on contemporary techniques and prosody.

2008 Introduction to Writing Drama (3) Also offered as THTR 2008. Writing plays for workshop criticism; practice in techniques of exposition, characterization, and dramatization.

2009 Introduction to Writing Screenplays (3) Prereq.: 3 hrs. from ENGL 2024, 2025, 2027, 2029, 2123, 2148, 2201, 2202, 2220, 2231, 2270, 2593, 2673, or 2674. Writing screenplays for workshop criticism; techniques of exposition, characterization, and dramatization.

2012 Practical Grammar and Usage (3) Practical grammar, usage, and punctuation; effective word choices and sentences; elimination of common errors; use of dictionaries; current language controversies, regional and social language variation.

★ **2024 Critical Strategies (3)** Credit will not be given for both this course and ENGL 2824. Skills for reading and writing about literature from a variety of critical perspectives; approaches such as reader response, psychoanalysis, myth, new historicism, and feminism applied to a range of literary texts.

★ **2025 Fiction (3)** Skills for reading and writing about fiction; attention to generic conventions and critical perspectives; section emphasis may vary, consult departmental handout.

★ **2027 Poetry (3)** Skills for reading and writing about poetry; attention to generic conventions and critical perspectives; section emphasis may vary, consult departmental handout.

★ **2029 Drama (3)** Skills for reading and writing about drama; attention to generic conventions and critical perspectives; section emphasis may vary, consult departmental handout.

2085 Science Fiction Studies (3) Science fiction literature, particularly that of the 20th century.

2086 Fantasy Literature (3) Variety of literary types employing conventions of the fantastic; uses of older literatures in modern fantasy novels; themes such as quest for identity, ideal of the hero, and nature of good and evil.

2102 Business Writing for International Students (3) Credit will not be given for both ENGL 2002 and 2102. Preparing business documents such as reports, articles, and letters; oral presentation of reports.

★ **2123 Studies in Literary Traditions and Themes (3)** Credit will not be given for both this course and ENGL 2823. Skills for reading and writing about literature; attention to historical development, context, and critical perspectives; topics such as "The Epic," "Imagining the Family," "Literature and the City"; section emphasis will vary, consult departmental handout.

★ **2148 Shakespeare (3)** The more popular plays.

2173 Louisiana Literature (3) Fiction, poetry, essays, and drama of Louisiana.

2175 The Civil War in Literature (3) Portrayal of the Civil War in fiction, poetry, drama, diaries, and letters.

★ **2201 Introduction to World Literary Traditions (3)** See CPLT 2201.

★ **2202 Introduction to Modern World Literature (3)** See CPLT 2202.

★ **2220 Major British Authors (3)** Selected major British authors from the Anglo-Saxon period to the present.

2222 Popular Fictions (3) Critical analysis of popular literature, television programs, films, and advertisements; emphasis on development of textual interpretive skills.

2231 Reading Film as Literature (3) Introduction to film as literature; mastery of film language and literary bases; fictional narrative and drama; film classics.

★ **2270 Major American Authors (3)** Selected major American authors from the Colonial period to the present.

★ **2300 Interpreting Discourse (3)** Study of and writing about discourse forms (fiction, popular and critical texts, technical and legal documents), using linguistic, rhetorical, and cultural analysis.

★ **2423 Introduction to Folklore (3)** Also offered as ANTH 2423. Folklore genres of the world; sources of folklore; literary, psychological, sociological, anthropological, and historical approaches to folk material; relationships between folklore and written literature.

★ **2593 Images of Women: An Introduction (3)** Critical analysis of women's representations, addressing a range of traditional and/or popular genres, historical periods, and/or critical approaches; emphasis on developing textual and interpretive skills; section emphasis may vary, consult departmental handout.

★ **2673 Literature and Ethnicity (3)** Literature of America's ethnic cultures.

★ **2674 Introduction to African-American Literature (3)** Major figures and popular texts of black American literature, including writers of fiction, poetry, drama, and essays; influence of genre on the articulation of common political and social themes.

2710 Descriptive Grammar of English (3) Examination of what every English speaker has internalized about English, including sentence structure, sound patterns, and word formation.

★ **2823 HONORS: Studies in Literary Traditions and Themes (3)** Honors equivalent of ENGL 2123. Credit will not be given for both this course and ENGL 2123.

★ **2824 HONORS: Critical Analysis of Literature (3)** Honors equivalent of ENGL 2024. Credit will not be given for both this course and ENGL 2024. Study and writing about literary forms.

2920, 2921, 2922 Independent Work (1,1,1) Prereq.: sophomore standing and an average of not less than 2.00 in all previous English courses. Consult department before registering. Reading, conferences, and reports under departmental faculty direction.

3000 HONORS: Honors Thesis (3) Conclusion of the English honors program; for details, consult the department.

3001 Writing Professionally in the Arts and Social Sciences (3) Prereq.: junior status or consent of instructor. Practice in writing common to the arts and social sciences; includes proposals, research studies, and reports.

3002 Technical Writing (3) Prereq.: junior status. Credit will be given for only one of the following: ENGL 3002, 3003, and 3102. Training in skills required of practicing scientists, engineers, and technical managers.

3003 Technical Writing for Nontechnical Majors (3) Prereq.: junior status. Credit will not be given for both ENGL 3002 and 3003 and 3102. This course will not substitute for 3002 requirement. Formats and processes of writing found in business, science, government, and industry.

3004 Writing with Style: Advanced Expository Prose (3) Experimentation with different styles of writing in a workshop format.

3015 Composition Tutoring (3) Prereq.: consent of instructor. 1 hr. lecture; 6 hrs. lab. Composition theory as applicable to undergraduate tutoring.

3020 British Literature I: The Middle Ages, Renaissance, and 18th Century (3) Survey of English literature from the Anglo-Saxon period through Chaucer, Shakespeare, the 17th and 18th centuries.

3022 British Literature II: Romanticism, Victorians, and Moderns (3) Survey of British literature from the French Revolution through the Industrial Revolution into the 20th century.

3024 Criticism (3) Influential works of literary criticism from the classical to the modern period.

3070 American Literature I: Forging a Nation (3) Emergence of an American literature and national consciousness in major writings from the Colonial era to the Civil War.

3072 American Literature II: Coming of Age (3) American literature from the Civil War to the present; realism, naturalism, modernism; effects of industrialization, immigration, the women's movement, the civil rights struggle, the world wars.

3080 Post-colonial Literature (3) Survey of literature from former British colonies in South Asia, Africa and the Caribbean; colonialism; nationalism; independence; diaspora; transnationalism; hybridity; women's rights; building a new nation, etc.

3084 Modern Criticism (3) Influential works of literary criticism and theory written in the 20th century.

3086 Contemporary Fiction (3) Survey of contemporary fiction from a comparative perspective; authors such as Achebe, Bellow, Garcia Marquez, Lessing, Morrison, Pynchon, Updike; developments in magical realism, minimalism, cyberpunk.

3101 Legal Writing (3) Credit will not be given for both this course and ENGL 2001. Discussions and writing assignments tailored to forms of writing common in law and in law-related fields; emphasis on writing clear, precise, effective prose.

3102 Technical Writing for International Students (3) Prereq.: junior status. Credit will be given for only one of the following: ENGL 3002, 3003, 3102. Training for non-native speakers of English in skills required of practicing scientists, engineers, and technical managers.

3124 The Literature of the English Bible (3) Also offered as REL 3124. Literary themes and forms in the King James version; particular reference to the literary influence of the Bible on later literature.

3201 Language Development and Diversity (1) Prereq.: EDCI 2001. Concurrent enrollment in EDCI 3001. 3 hrs. lab/field experience in multicultural settings. Language development and diversity of adolescent speakers, writers, and readers of English.

3202 Dynamics of Learning in the English Classroom (1) Prereq.: EDCI 3001 and ENGL 3201. Concurrent enrollment in EDCI 3002. 3 hrs. lab/field experience in multicultural settings. Dynamics of learning in middle school and high school English classes, including methods of small group and whole class interaction and instruction, including integration of technology.

3220 Major Themes in Literature (3) May be taken for a max. of 6 hrs. of credit. Consult department for topic to be offered. Examination of a particular theme (e.g., revolution, quest, or spiritual crisis) in the works of several authors crossing historical and cultural boundaries.

3222 Survey of Popular Genres (3) Survey of such genres as ballads, miracle and morality plays, broadsides, melodrama, romance, detective fiction, science fiction, westerns, situation comedies.

3223 Adolescent Literature (3) See also EDCI 3223. Critical analysis and survey of literatures with adolescents as main characters and written for adolescent and adult audiences.

3236 Literature and Religion: an Overview (3) Also offered as REL 3236. Comparative analysis of world views in representative works of Western literature; theory and practice of the religious interpretation of literary texts; writers studied may include Aeschylus, Dante, Shakespeare, Melville, and Walker Percy.

3300 Rhetoric: Texts and Historical Contexts (3) Development of rhetoric and writing within their cultural contexts; modes of writing and rhetoric particular to historical periods, classical to modern.

3301 Writing: Practice, Pedagogy, and History (3)

Cultural, technological, and historical influences on writing, the teaching of writing, and today's teaching practices.

3310 Historical Perspectives on Language Issues (3) A writing intensive course. Survey of major issues in the history of language study.

3384 Cultural and Textual Studies (3) Introduction to the theory and practice of cultural studies; reading of theoretical statements; analysis of exemplary texts (films, videos, literary works, autobiographies, historical and legal documents).

3401 The Study of Folklore (3) See ANTH 3401.

3593 Survey of Women and Literature (3) Significance of gender for the author, the reader, and the work itself; connections between texts and society; literary influences and relations between mainstream and nontraditional literature.

3674 Survey of African-American Literature (3) Literature of the black experience in the U.S. from slave narratives to the present.

3716 Dialects of English (3) Regional and/or social variation in pronunciation, grammar, and vocabulary.

3720 Methods for Teaching English as a Second Language (3) Theories and practical approaches for teaching English as a second language to elementary, secondary, and adult education students.

3820, 3821, 3822, 3823, 3824, 3825 HONORS: Seminar (3 each) Prereq.: Permission of department. Normally open only to juniors and seniors. Topics vary, consult departmental handout.

3920 Independent Study (1-3) May be taken for a max. of 3 hrs. of credit. Readings, reports, and conferences under departmental faculty direction.

3925, 3927, 3929 HONORS: Independent Work (1,1,1) Prereq.: gpa of at least 3.00 in all work taken and permission of department. May not be taken by students who have already completed ENGL 2920, 2921, 2922. Consult department before scheduling course. Reading, conferences, and reports under departmental faculty direction.

4000 Special Projects for Creative Writing Majors (3) Prereq.: Permission of department; at least one 2000-level course in creative writing. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Explorations in a wide variety of projects that basic courses are unable to accommodate.

4001 Writing Essays and Reviews (3) Prereq.: at least one 2000-level course in creative writing. Essays and reviews as literary forms, with guided practice in writing both.

4002 Scientific and Professional Writing for Peers (3) Individual instruction. Students must have well-defined projects. Principles and practice of effective research writing in academic and professional settings; emphasis on translating research results into publishable articles and effective grant proposals.

4003 Special Topics in Professional Writing (3) Prereq.: permission of instructor. May be taken for a max. of 9 sem. hrs. of credit when topics vary. Scientific writing and society; writing user manuals; document design research; history and rhetoric of scientific and professional writing; theory and practice of nonacademic writing.

4004 Practicum in Technical Writing (3) Prereq.: ENGL 3002 or 3003 and 4002 or 4003 or permission of department. 10 hrs. lab. Supervised writing and editing projects.

4005 Short Story Writing (3) Prereq.: ENGL 2005. Guided practice in short story writing; techniques involved.

4006 Writing the Novel (3) Prereq.: at least one 2000-level course in creative writing. Guided practice in writing the novel; techniques involved.

4007 Writing Poetry (3) Prereq.: ENGL 2007. Guided practice in writing poetry; techniques involved.

4008 Writing Drama (3) Prereq.: at least one 2000-level course in creative writing. Also offered as THTR 4008. Guided practice in writing plays; techniques involved.

4009 Advanced Screenwriting Workshop (3) Prereq.: consent of instructor and ENGL 2009. Practice in advanced screenwriting; students will be required to write a full-length screenplay or teleplay.

4017 Technical Editing (3) Prereq.: ENGL 3001 or 3002 or equivalent. Practical experience in editing and preparing technical manuscripts; general instruction in functions of the technical editor.

4023 Studies in Life Writing (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Authors such as St. Augustine, Margery Kempe, Montaigne, Rousseau, Franklin, Douglass, Adams, Stein, Malcolm X; topics such as "Autobiography, Memoir, and Diary," "Biography," "Slave Narrative," "Autobiographical Fiction."

4027 Studies in Lyric, Epic, and Other Poetic Forms (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Poets such as Sidney, Spenser, Milton, Wordsworth, Keats, Dickinson, Whitman, Yeats, Stevens, Wheatley, Rich; topics such as "Development of the English Epic," "Love Lyrics and the Representation of Women."

4028 Studies in Drama (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Authors such as Marlowe, Jonson, Congreve, Sheridan, Shaw, Synge, O'Neill, Miller;

topics such as "The Beginnings of English Drama," "Shakespeare's Contemporaries," "Irish Drama," "Women in the Theatre."

4029 Studies in Comedy and Tragedy (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Authors such as Sophocles, Aristophanes, Shakespeare, Ibsen, Wilde, O'Neill, Beckett, Pinter; topics such as "The Tragic Vision," "Comic and Tragic Drama," "Renaissance Fools and Folly."

4030 Studies in the Middle Ages (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Authors such as Chaucer, Langland, the Gawain poet, Juliana of Norwich; topics such as "Love and Chivalry in Middle English Lyric and Romance," "Dream Vision and Allegory," "Reading Anglo-Saxon Literature."

4033 Studies in Satire and Irony (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Authors such as Jonson, Dryden, Swift, Pope, Twain, Waugh, West, Vonnegut, Atwood; topics such as "Satire on the Jacobean Stage," "Political Satire," "The Tropes of Satire."

4040 Studies in the Age of Elizabeth (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Authors such as Sidney, Spenser, Marlowe, Shakespeare; developments in romantic epic, lyric, comedy, tragedy, devotional literature; topics such as "Quest for Utopia," "Psychology of Love," "Theatre and Court."

4041 Studies in the 17th Century (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Authors such as Donne, Jonson, Middleton, Webster, Milton; developments in metaphysical poetry, revenge tragedy, urban comedy, courtly masque; topics such as "Public Playhouse and Courtly Stage," "Poetry and Politics."

4050 Studies in the Restoration and 18th Century (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Authors such as Dryden, Behn, Swift, Pope, Equiano, Fielding, Richardson, Austen; developments in satire, comedy of manners, the novel; topics such as "The Line of Wit," "Literature and Empire."

4055 Studies in the Novel and the Idea of Narrative (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Novels such as *Tristram Shandy*, *Madame Bovary*, *The Trial*, *To the Lighthouse*, *Beloved*; theorists such as Booth, Bakhtin, Kermode, Girard, Barthes, Kristeva, Said; topics such as time, structure, voicing, self-reflexivity.

4060 Studies in the Romantic Movement (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Authors such as Blake, Wordsworth, Coleridge, Byron, Percy and Mary Shelley, Keats; topics such as "Romanticism and the French Revolution," "The Poetic Imagination," "The Romantic Novel."

4062 Studies in the Victorian Age (3) May be taken for a max. of 6 hrs. of credit when topics vary. Authors such as Dickens, the Brontës, Thackeray, Eliot, Tennyson, Browning, Arnold, Ruskin, Wilde; topics such as "The Bildungsroman," "London, Crime, and Victorian Literature," "The Victorian Heroine."

4070 Studies in American Literature to 1865 (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Authors such as Franklin, Poe, Emerson, Hawthorne, Douglass, Melville, Whitman, Dickinson; themes such as American identity, nature and culture; topics such as "The Puritan Imagination," "Rethinking the American Renaissance."

4071 Studies in American Literature since 1865 (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Authors such as Twain, James, Wharton, Eliot, Moore, Hughes, Cather, Ellison, Faulkner; developments in the novel, poetry, nonfiction prose; topics such as "The American Self," "Naturalism," "Postmodernism."

4080 Studies in Modernism (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Authors such as Pound, Eliot, Stein, Joyce, Woolf, and Faulkner; topics such as "The Avant-Garde Movements in the Arts," "Nationalism and Literature," "War Poetry," "The Expatriates."

4086 Studies in the Short Story (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Authors such as Chekhov, Joyce, Hemingway, Cather, Wright, Garcia Marquez, Flannery O'Connor; theorists such as Poe, Frank O'Connor, Friedman, Pratt; problems such as short story sequences, beginnings and endings, compression, conflict.

4102 Capstone Seminar in Writing Poetry (3) Prereq.: ENGL 4007, 92 total credit hrs. and 27 hrs. in English beyond ENGL 2000, or permission of instructor. Advanced seminar in which students consolidate their knowledge in writing poetry and obtain a perspective on the significance of that knowledge. Independent research project.

4104 Capstone Seminar in Literature (3) Prereq.: for English Majors with 92 total credit hrs. and 27 hrs. in English beyond ENGL 2000, or permission of instructor. Advanced seminar in which students consolidate their knowledge of English and obtain a perspective on the significance of that knowledge. Independent research project. Course topics will vary.

4105 Capstone Seminar in Writing Fiction (3) Prereq.: ENGL 4005, 92 total credit hrs. and 27 hrs. in English beyond ENGL 2000, or permission of instructor. Advanced seminar in which students consolidate their knowledge in writing fiction and obtain a perspective on the significance of that knowledge. Independent research project.

4109 Capstone Seminar in Screenwriting (3) Prereq.: ENGL 4009, 92 total credit hrs. and 27 hrs. in English beyond ENGL 2000, or permission of instructor. Advanced seminar in which students consolidate their knowledge in screenwriting and obtain a perspective on the significance of that knowledge. Independent research project.

4120 Studies in Major Authors (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Detailed study of works by one or two authors from Spenser and Donne to Joyce and Morrison; attention to the author's life and times, predecessors and influence.

4121 Studies in Literary History (3) May be taken for a max. of 6 hrs. of credit when topics vary. Topics such as "Literature and the King's Peace," "The Development of the Pastoral," "From Romantic to Victorian: A Study of Influence," "Self and Society."

4122 Topics in Interdisciplinary Studies (3) May be taken for a max. of 6 hrs. of credit when topics vary. Literature in cultural contexts and/or in relation to other academic disciplines; topics such as "Fictions of the Working Class," "Race in Literature and Culture," "Modernism in Fiction and Painting."

4124 Studies in Critical Traditions and Problems (3) May be taken for a max. of 6 hrs. of credit when topics vary. Topics such as "History and Representation," "From Neoclassic to Romantic," "Imitation and Creation," "Feminist Literary Theory," "Philosophy and Literature," "Constructing Subjectivity."

4137 Studies in Chaucer (3) Attention to *The Canterbury Tales*, their literary and cultural significance; topics such as "Chaucer, Boccaccio, and Framed Tales," "The olde daunce": Chaucer on Love, Sex, and Marriage."

4147 Studies in Milton (3) Attention to *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes*; their literary and cultural significance; topics such as "Paradise Lost and the Christianization of the Epic," "Milton and Women," "Milton and Revolution."

4148 Studies in Shakespeare (3) May be taken for a max. of 6 hrs. of credit when topics vary. Attention to poetry and plays, literary and cultural significance; topics such as "The Comedies and Histories," "The Tragedies," "Shakespeare and Film," "Shakespeare and Gender."

4173 Studies in Southern Literature (3) May be taken for a max. of 6 hrs. of credit when topics vary. Authors such as Chopin, Faulkner, Wright, Welty, Tennessee Williams; topics such as "Survey of Southern Literature," "Civil Rights Literature," "Historical Fiction," "Southern Women Writers."

4203 Curricula, Pedagogy, and Assessment in the English Classroom (1) Prereq.: EDCI 3002 and ENGL 3202. Concurrent enrollment in EDCI 4003. 3 hrs. lab/lab experience in multicultural settings. Current methods of course design, pedagogy, and assessment for teaching English in middle school and high school classrooms.

4204 Capstone Seminar in English Education (3) Prereq.: EDCI 4003 and ENGL 4203. Concurrent enrollment in EDCI 4004 and 4005. For English majors in the Secondary Education Concentration. Independent research project. Course topics will vary. Advanced seminar in which students consolidate their knowledge in English and obtain a perspective on the significance of the knowledge.

4220 Black Drama and Theatre (3) See THTR 4220.

4222 Studies in Popular Fictions (3) May be taken for a max. of 6 hrs. of credit when topics vary. Topics such as "Louisiana Popular Fictions," "Images of Women and Minorities in Popular Texts," "Popular Culture and Folklore," "The Literature of Horror."

4231 Studies in Literature and Film (3) May be taken for a max. of 6 hrs. of credit when topics vary. Comparative study of literature and film as art forms; literary bases of film; topics such as "Film Authors," "Film and Ideology," "Adaptations of Literary Classics," "Film Genres," "Film and Gender."

4232 Studies in Literature and Psychology (3) May be taken for a max. of 6 hrs. of credit when topics vary. Psychoanalytic readings of literature such as *Hamlet*; literary readings of psychoanalytic authors such as Freud, Jung, Lacan; topics such as "Feminism and Psychoanalysis."

4234 Studies in Literature and Politics (3) Also offered as POLI 4234. May be taken for a max. of 6 hrs. of credit when topics vary. Literary representations of politics; historical role of literature in politics; topics such as "Literature and Politics of the Modern American South," "Revolution and the Avante-Garde."

4236 Studies in Literature and Religion (3) Also offered as REL 4236. May be taken for a max. of 6 hrs. of credit

when topics vary. Authors such as Sophocles, Dante, Shakespeare, Donne, Hawthorne, Eliot, O'Connor, Morrison; topics such as "Major Religious Novelists," "Literature of Illness and Death," "Moral Universes of Greek and Christian Tragedy," "Creation Stories."

4300 Studies in Rhetorical Theory (3) *May be taken for a max. of 6 hrs. of credit when topics vary.* Topics such as "Rhetoric of Literary Studies," "Rhetoric of Political Discourse."

4301 Studies in Composition Theory (3) *May be taken for a max. of 6 hrs. of credit when topics vary.* Modern composition theory as it relates to the teaching of writing; topics such as "Social Theories of Composition."

4302 Studies in Literacy (3) *May be taken for a max. of 6 hrs. of credit when topics vary.* Varied perspectives on literacy, especially written literacy; issues raised by its complex and problematic nature.

4304 Capstone Seminar in Writing and Culture (3) *Prereq.: for English Majors with 92 total credit hrs. and 27 hrs. in English beyond ENGL 2000, or permission of instructor.* Advanced seminar in which students consolidate their knowledge in English and obtain a perspective on the significance of that knowledge. Independent research project. Course topics will vary.

4310 Studies in Language (3) *Also offered as LING 4310. May be taken for a max. of 6 hrs. of credit when topics vary.* A writing intensive course. Devoted to special topics, such as "African-American English," "English-based Pidgins and Creoles," "Current Trends in Linguistic Theory," "Issues in Applied Linguistics and Language Learning."

4316 Introduction to Literary Style (3) Stylistic analysis of the language of literature; emphasis on the major rhetorical, literary, and linguistic theories of style and their concerns with author, reader, text, and context.

4322 Studies in African Literature (3) *See AAAS 4322.*

4323 Studies in Caribbean Literature (3) *See AAAS 4323.*

4475 American Folklore (3) *Also offered as ANTH 4475.*

Folklore of the U.S., including regional, racial, ethnic, and occupational groups; relation of folklore to other aspects of American vernacular culture and to American literature.

4480 Folklore and Literature (3) Interrelationships between folklore and literature; use of folklore by writers; similarities and differences between "oral literature" and "written literature."

4493 Women and Folklore (3) Examination of folk materials, including oral genres, music, art and artifacts, and rituals; focus on how and why information about women in folklore is communicated.

4593 Studies in Women and Literature (3) *May be taken for a max. of 6 hrs. of credit when topics vary.* Authors such as Behn, Woolf, Chopin, Atwood, Cliff; topics such as "Reading and Writing About Women's Lives," "The Female Gothic," "Women and Ethnicity," "Early Modern Women Writers."

4674 Studies in African-American Literature (3) *May be taken for a max. of 6 hrs. of credit when topics vary.* Authors such as Douglass, Hurston, Wright, Morrison; topics such as "Slave Narratives," "The Harlem Renaissance," "The Black Arts Movement," "The Black Diaspora," "African Survivals."

4680 Studies in Post-colonial Literature & Culture (3) *May be taken for a max. of 6 sem. hrs. of credit when topics vary.* Topics may include "Imagining India," "Black British Cultures," "Islam and Literature," "Politics and Post-colonial Literature," "Atlantic Studies," etc.

4710 Introduction to Linguistics (3) *Also offered as LING 4710.* Introduction to the major fields of linguistic study: phonology, morphology, syntax, semantics.

4711 History of the English Language (3) *Also offered as LING 4711.* Survey of the development of the English language from its Germanic roots to the present day.

4712 Roots of English (3) *Also offered as LING 4712.* The use of language to reconstruct the ancient Indo-European physical and cultural world: myth, religion, ritual, law, and medicine.

4713 Syntax (3) *Also offered as LING 4713.* Basic principles of syntactic structure; topics include constituency, subordinate clauses, coordinate structures, question formation, topicalization, and the passive.

4714 Phonology (3) *Also offered as LING 4714.* Introduction to phonology, concentrating on the English language; phonetic and phonemic inventories; feature analysis and rules; examination of linear, nonlinear, and metrical paradigm.

4715 Semantics (3) *Also offered as LING 4715.* Approaches to the study of meaning: theories of the lexicon, word-formation and meaning; the interaction between sentence structure and signification; pragmatics.

4716 Introduction to Sociolinguistics (3) *Also offered as LING 4716.* Survey of the field of sociolinguistics; issues relating to language variation and change; class, gender, and ethnicity; language planning and public policy.

7001 Literary Nonfiction Workshop (3) *Prereq.: admission to the MFA program or consent of instructor. May be taken*

for a max. of 6 sem. hrs. of credit. Creative writing of nonfiction essays.

7004 Translation Workshop (3) *Prereq.: command of a foreign language. May be taken for a max. of 6 sem. hrs. of credit.* Literary translations from foreign languages into English; consideration of translation theory.

7006 Fiction Writing (3-6) *Prereq.: admission to the MFA program or permission of instructor. May be taken for a max. of 12 hrs. of credit.* Intensive composition and critical evaluation of fiction; fictional techniques and forms.

7007 Poetry Writing (3-6) *Prereq.: admission to the MFA program or permission of instructor. May be taken for a max. of 12 hrs. of credit.* Composition and critical evaluation of poetry; poetic forms and problems of poetry writing.

7008 Drama Writing (3-6) *Also offered as THTR 7008. May be taken for a max. of 12 sem. hrs. of credit.* Composition and critical evaluation of drama; techniques of dramatic composition and dialogue.

7009 Advanced Screenwriting Workshop (3-6) *Prereq.: admission to the MFA program or permission of instructor. May be taken for a max. of 12 hrs. of credit.* Composition and critical evaluation of screen and teleplays; screenwriting composition and dialogue.

7020 Proseminar in Graduate Study (3) Introduction to the profession of English through an examination of the central theoretical issues and institutional questions that currently organize the field and instruction in basic research practices.

7030 Medieval Literature (3) Survey of major Medieval works (exclusive of Chaucer) in lyrical, poetic narrative, dramatic, and prose genres.

7040 Renaissance Literature (3) Survey of representative works of English literature in poetry and prose in the 16th and 17th centuries.

7050 Restoration and 18th Century Literature (3,3) Comprehensive survey of major authors, contexts, and genres from Dryden to Blake.

7060 Romanticism (3) Poetry, prose, and aesthetic theory of the Romantic period from Anna Barbauld and William Blake to Mary Shelley and Walter Scott.

7062 Victorian Literature (3) Survey of Victorian prose and poetry from Brontë to Wilde.

7070, 7071, 7072 American Literature I, II, III (3,3,3) (7070) Survey of American poetry and prose in the 17th and 18th centuries; (7071) the 19th century; and (7072) the 20th century.

7106 Forms of Prose Fiction (3) *Prereq.: admission to MFA program. May be taken for a max. of 6 sem. hrs. credit when topics vary.* Fictional techniques in conventional and experimental short stories, novellas, and novels; elements of plot, characterization, theme, setting, and tone; formal analysis of literary texts related to specific problems of writing.

7107 Prosody and Poetic Forms (3) *Prereq.: admission to MFA program. May be taken for a max. of 6 sem. hrs. credit when topics vary.* Representative forms of poetry from early sagas to contemporary free verse; relationship to principles of versification; some concurrent practice in writing poetry in specific forms.

7109 Forms of Film Writing (3) *Prereq.: permission of instructor.* Examination of screenplays and teleplays; techniques of exposition, characterization, and dramatization.

7124 Feminist Literary Theory (3) Introduction to major issues and methodologies.

7137 Chaucer (3) *May be taken for a max. of 6 hrs. of credit when topics vary.* Poetry and prose in Middle English.

7147 Milton (3) Readings and critical analysis of the poetry and prose of John Milton.

7170 Ethnic Literatures of the United States (3) Survey of the literature of America's diverse ethnic cultures; theories of ethnicity, cultural studies, and critical race studies.

7173 Literature of the American South (3) Southern writing from colonial times to the present.

7174 Survey of African-American Literature I (3) Writings of African Americans from the colonial/slavery experience to 1915.

7175 Survey of African-American Literature II (3) Writings of African Americans from 1915 to the present.

7182 Postcolonial Literatures (3) Survey of Anglophone literatures from formerly colonized nations.

7220 Modern Critical Theory and Cultural Studies (3) A basic introductory survey of modern critical theory and cultural studies.

7221 Topics in Critical Theory and Cultural Studies (3) *May be taken for a max. of 9 sem. hrs. of credit when topics vary.* Specialized explorations in critical theory and cultural studies; topics include "Derrida and American Deconstruction," "Critical Theory and Science Fiction," "Marxism and the Western," "Reader-Response Theory and Popular Romance," "Postmodernism."

7222 Topics in Literacy Studies (3) *May be taken for a max. of 9 sem. hrs. of credit when topics vary.* Intensive study of a topic in history or theories of literacy; topics include

"Technology and Literacy," "Gender and Literacy," "Orality and Literacy," "Theory and Politics of Literacy," "Working-Class Literacy."

7321 Topics in Gender Theory (3) *May be taken for a max. of 9 sem. hrs. of credit when topics vary.* Analysis of an aspect of gender theory in relation to literary or cultural study; topics such as "Gender, Narrative, and Property," "Film and Gender," "Psychoanalysis and Sexuality."

7341 Topics in Women's Writing (3) *May be taken for a max. of 9 sem. hrs. of credit when topics vary.*

7420 Folklore (3) *A field research project is required.* Major folklore genres and approaches to their study; relationships between folklore and other disciplines, such as literary study and anthropology.

7423 Topics in Folklore (3) *May be taken for a max. of 9 sem. hrs. of credit when topics vary.* Examination of particular folk genres, issues, or methods in the study of folklore.

7521 Topics in the History of Rhetoric and Poetics (3) *May be taken for a max. of 9 sem. hrs. of credit when topics vary.* Topics may cover any aspect of the historical relationship between formal rhetoric, poetic theory, and English literature from the Middle Ages to the present.

7522 Topics in Rhetorical and Poetic Theory (3) *May be taken for a max. of 9 sem. hrs. of credit when topics vary.* Intensive study of a topic in rhetorical and poetic theory, such as "Rhetorics of the Self," "Lacanian Poetics," "Rhetoric and Politics."

7541 Topics in Rhetoric, Media, and Representation (3) *May be taken for a max. of 9 sem. hrs. of credit when topics vary.* Analysis of literature, film, and media as cultural representations of societal norms, beliefs, and needs.

7542 Topics in Rhetorics of Class and Gender (3) *May be taken for a max. of 9 sem. hrs. of credit when topics vary.* Analysis of writing and language in light of their contextual and material influences and the methods for their study; emphasis on class and gender.

7621 Research Methods in Composition, Literacy, and Rhetorical Studies (3) Survey and theoretical discussion of research methodologies such as discourse analysis, rhetorical analysis, interviews, talk-aloud protocols, and ethnography in the fields of composition studies, literacy studies, or rhetorical studies.

7622 Topics in Composition Studies (3) *May be taken for a max. of 9 sem. hrs. of credit when topics vary.* Historical survey of the theoretical, research, and pedagogical issues in the field of composition studies, or special topics such as "Genre Theory," "Assessment," "Technology and Composition."

7623 Topics in Professional Writing and Technical Communication (3) *May be taken for a max. of 9 sem. hrs. of credit when topics vary.* History or theories of professional writing or technical communication; topics include "Writing in the Profession," "Workplace Literacy," "Computers and Writing," or "Technical Writing Methodology."

7711 Forms of Early English (3) *May be taken for a max. of 9 sem. hrs. of credit when topics vary.* Languages and linguistic structures of early forms of English: Old English, Middle English, and Early Modern English; period focus will vary.

7712 Topics in Historical Linguistics (3) *Also offered as LING 7712. May be taken for a max. of 9 sem. hrs. of credit when topics vary.* An exploration of a topic or topics in the history of English, of the Germanic language, or of the Indo-European language family.

7713 Topics in Syntax and Semantics (3) *Also offered as LING 7713. May be taken for a max. of 9 sem. hrs. of credit when topics vary.* An exploration of a topic or topics in the structure and/or the interpretation of Modern English and related languages.

7714 Topics in Sociolinguistics (3) *Also offered as LING 7714. May be taken for a max. of 9 sem. hrs. of credit when topics vary.* An exploration of a topic or topics in the sociolinguistics of English and related languages, including English-based pidgins and creoles.

7715 Topics in Language Acquisition (3) *Also offered as LING 7715. May be taken for a max. of 9 sem. hrs. of credit when topics vary.* An exploration of a topic or topics in the acquisition of English syntax, morphology, or phonology.

7724 Topics in Feminist Theory and Criticism (3) *May be taken for a max. of 9 sem. hrs. of credit when topics vary.* Analysis of a particular aspect of feminist theory, such as feminist psychology, feminist film theory, gender and popular culture.

7783 Topics in Film and Video Studies (3) *May be taken for a max. of 9 sem. hrs. of credit when topics vary.* Intensive examination of a topic in the history or theory of film, television, or other video productions, or in the relation of such productions to literature.

7910 Language (3) *May be taken for a max. of 6 sem. hrs. of credit when topics vary.*

7915 Teaching College Composition (3) Prereq.: students must be graduate teaching assistants in the English Department. Course is designed for graduate students teaching in the First-Year Writing program. Theoretical and pedagogical issues in the teaching of college writing.

7920 English Seminar (1-3) May be taken twice for credit when topics vary.

7921 Topics in Genres (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary. Intensive study of works in a literary genre from different national and cultural traditions and from different historical periods; topics include "Medieval and Renaissance Drama," "The Long Poem in English," "The Origins of the Novel," "The Short Story."

7922 Authors Seminar (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary. Detailed study of one or two authors in American, British, or other Anglophone literatures; attention to the life and time, predecessors, and influence.

7924 Bibliography and Textual Research (3)

7926 Topics in the British Novel (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary. Topics such as "Working-Class Novels," "Desire and Domesticity in the Eighteenth-Century Novel," "Imperialism and the Novel."

7934 Topics in Medieval Literature (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary.

7937 Beowulf (3)

7942 Topics in Renaissance Literature (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary.

7943 Studies in Shakespeare (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary.

7951 Topics in Restoration and 18th Century Literature (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary.

7960 Studies in the Romantic Period (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary. Topics such as "Romanticism and Place," "Literature and Revolution," "Romanticism and Linguistic Theory."

7962 Studies in the Victorian Period (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary. Topics such as "Victorian Literature and Race," "Victorian Literature and Economics," "Victorian Literature and the City."

7963 Topics in 19th Century British Literature (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary. Topics such as "19th Century British Women Poets," "Youth and Identity in 19th Century Literature," "British Working-Class Writing."

7970 Topics in American Genres (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary. Focused study of genres in the American context; genres may include the novel, the short story, drama, poetry, the captivity narrative, or the essay.

7971 Topics in Southern Studies (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary.

Interdisciplinary approaches to southern literature and culture; topics such as "Southern Sexualities," "The Color Line in the American South," "Media Made Dixie."

7972 Topics in Southern Literature (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary.

7973 Topics in Louisiana and Caribbean Studies (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary.

7974 Topics in American Literature (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary.

7975 Topics in African-American Literature (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary.

7976 Black Drama and Poetics (3) Comparative study of African and New World black dramatists and poets.

7977 Black Criticism and Literary Methodologies (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary.

7978 Cross-Cultural Souths (3) Southern literature and culture in relation to other cultures of the United States and other regions of the world.

7981 Topics in Modern and Contemporary Literature (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary. Intensive study of works in modern and contemporary literature; topics include "Modern Irish Literature," "Modernism," "Postmodern Literature," "Contemporary Australian Literature."

7983 Topics in Ethnic and Postcolonial Literatures (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary. Detailed study of different aspects of American ethnic literatures such as Asian American, Native American, Latino/Chicano, and postcolonial literatures such as Indian, African, West Indian, Transnational.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Independent Study (1-3) May be taken for a max. of 3 sem. hrs. in an MA program, 6 sem. hrs. in an MFA program, and 9 sem. hrs. in a PhD program. Directed individual readings guided by the graduate faculty.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

ENTOMOLOGY • ENTM

2001 Insects in the Environment (3) F Prereq.: BIOL 1201, 1208; and either BIOL 1402 or BIOL 1502; or BIOL 1001, 1002, 1003, 1004; or equivalent. 2 hrs. lecture; 2 hrs. lab. Insect recognition, classification, and life cycles; factors affecting insect diversity and abundance; interactions between insects and the natural environment.

2050 Introduction to Pest Management (4) See PLHL 2050.

3000 Pest Management Internship (3) Su See PLHL 3000.

3002 Pest Management Seminar (1) F See PLHL 3002.

4001 Household and Structural Pests (3) F-E Prereq.: ENTM 2001. 2 hrs. lecture; 2 hrs. lab. Recognition, biology, and management of pests found in structures.

4002 Insect Biology (3) F-O Also offered as BIOL 4002.

Prereq.: BIOL 2153 or consent of instructor. No entomology training necessary. Biological, biochemical, and ecological principles as they relate to the success of insects.

4005 Insect Taxonomy (4) S-O Prereq.: ENTM 2001. 2 hrs. lecture; 4 hrs. lab. A collection is required. Identification, nomenclature, phylogenetic relationships, and life histories of insects at the family level.

4006 Fundamentals of Applied Entomology (3) S Prereq.: ENTM 2001 or ENTM/PLHL 2050 or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Principles and methodology of managing insect pests; emphasis on field crops insect pest management; interdisciplinary perspective.

4007 Forensic Entomology (3) S-O 2hrs. lecture; 2 hrs. lab. No entomology training necessary. Determining the succession and species composition of necrophilous insects and other arthropods on carcasses; estimate time of death using insects; learning investigative procedures used by police and wildlife officers in human and animal deaths; review of case studies from crime scene to courtroom.

4011 Biology and Management of the Honey Bee (3) S-E Prereq.: BIOL 1201, 1208 and either BIOL 1402 or BIOL 1502; or BIOL 1001, 1002, 1003, 1004 or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Behavior, genetics, pollination, pathology, and practical management of honey bees for agricultural and scientific purposes.

4012 Fundamentals of Horticultural Entomology (3) S Prereq.: ENTM 2001. 2 hrs. lecture; 2 hrs. lab. Principles of insect control; recognition of major pest species of insects and mites and their injury to horticultural plants; economic and aesthetic injury thresholds; methods of control, including identification and utilization of beneficial species.

4015 Conservation Biology (4) F Prereq.: 11 sem. hrs. biological sciences; genetics recommended; permission of department. 3 hrs. lecture; 1 hr. discussion. Same as BIOL 4015. Underlying principles and concepts of conservation biology; practical applications to preserves and human society; threats to and importance of biological diversity; human responsibilities as global land stewards.

4016 Introduction to Insect Physiology (3) S-E Prereq.: 12 hrs. of ENTM or biological sciences; 1 yr. of organic chemistry or biochemistry. 2 hrs. lecture; 3 hrs. lab. Also offered as BIOL 4016. Basic functions of insects; principles of physiology, including metabolism, growth, development, and chemical communication systems.

4017 Laboratory in Conservation Biology (2) 2 hrs. laboratory. Coreq.: BIOL/ENTM 4015 or equivalent. Same as BIOL 4017.

4018 Forest Insects and Diseases (4) F Prereq.: BIOL 1502, 1509; or BIOL 1402; or BIOL 1201, 1208. Also offered as PLHL 4018. 3 hrs. lecture; 2 hrs. lab. One day-long field trip. Identification, ecology, epidemiology, and control of forest insects and diseases.

4040 Insect Ecology (3) S Prereq.: BIOL 1201 and 1208 or equivalent or consent of instructor. Two Saturday field trips. Service learning component. Ecological principles pertaining to insect individuals, populations, communities, and their role in ecosystems; emphasis on life history strategies and behavior.

4099 Undergraduate Entomological Research (1-3)

F,S,Su Prereq.: ENTM 2001 or 2050 or 4018 or equivalent. Not for graduate credit. May be taken for a max. of 4 hrs. of credit. Supervised entomological research in a laboratory or field setting; data collection and interpretation of results.

4100 Insect Behavior (3) F-O Prereq.: ENTM 2001, 2050, or consent of instructor. Current and classical concepts in behavioral theory; communication systems; stimuli orientation, social interaction; aspects of insect control using behavior modification.

4199 Special Topics in Entomology (1-3) V Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Lab/field trip may be required. Subjects not covered in other entomology courses.

7001 General Entomology (4) F-E. No entomology training necessary. 3 hrs. lecture; 3 hrs. lab. Provides a framework of information about the evolution of insects and related arthropods, anatomy, functional morphology and physiology, and an introduction to insect diversity at the ordinal level.

7002 Plant Resistance to Arthropods (4) F-O Prereq.: consent of instructor. 3 hrs. lecture; 3 hrs. lab. Detailed examination of the mechanistic basis of plant-insect interactions, with special reference to host-plant resistance in agricultural systems; integrates relevant concepts from diverse fields including insect physiology, plant physiology, plant biochemistry, and ecology; evaluation of the current theoretical basis for research in plant-insect interactions; laboratory demonstrations and exercises emphasize the techniques used in host-plant resistance research.

7003 Medical/Veterinary Entomology (4) F-E Prereq.: ENTM 2001 or equivalent. 3 hrs. lecture; 3 hrs. lab. Relationship of insects and other arthropods to human and animal health.

7005 Classification of Immature Forms of Insects (3) S-O Prereq.: ENTM 4005 or equivalent. 2 hrs. lecture; 2 hrs. lab.

7006 Advanced Insect Pest Management (3) F-E Prereq.: ENTM 4006 and one 4000 or higher level statistical course (EXST 4050, 7003, 7004, 7005, 7013, 7014, 7015, and 7031) or consent of the coordinator. Ecological and economic basis of pest management; advances in major pest management tactics; insect sampling; system analysis, biotechnology and geographical information system in pest management.

7007 Seminar in Entomology (1) F,S May be repeated for credit. 1 sem. hr. of credit required for each graduate degree in entomology.

7008 Special Topics in Entomology (1-3) F,S,Su Prereq.: consent of department head. May be taken for a max. of 6 sem. hrs. credit when topics vary. Lectures and/or labs on advanced topics in entomology not covered in other entomology courses.

7010 Teaching Practicum (1-3) F,S Prereq.: students whose native language is not English must pass the Michigan Test of English proficiency, or ENGL 0004, or equivalent, and receive prior approval of student's graduate committee and supervising faculty. Open only to entomology PhD students. May be taken for a max. of 6 sem. hrs. of credit. Teaching practicum and learning experience under the supervision of a graduate faculty member. Pass/fail grading based on a written evaluation by the supervisor and a written report by the student. Support one faculty member's teaching through grading assignments and exams, delivering material, and preparing and conducting laboratories, as needed and directed by the supervising faculty. Student will be exposed to different learning styles and various teaching approaches. Course credit will range from 1-3 hrs. depending on anticipated involvement.

7014 Insect Morphology and Phylogeny (3) F-O Prereq.: 6 sem. hrs. of 4000-level entomology courses or equivalent, or consent of instructor. 2 hrs. lecture; 3 hrs. lab. Comparative morphology of insects with a conceptual emphasis on understanding the evolutionary relationships among major lineages.

7015 Insect Pathology and Biological Control (4) Prereq.: ENTM 2001 or equivalent. 3 hrs. lecture; 3 hrs. lab. Practice and theory of biological control of insect pests and weeds; noninfectious and infectious diseases of insects; etiology, infection processes, pathogenesis, and host responses.

7017 Introduction to Insecticide Toxicology (3) F-E Prereq.: organic chemistry or equivalent. 2 hrs. lecture; 3 hrs. lab. Principles of toxicology as they relate to insecticides; bioassays, risk assessment, mode of action, pharmacokinetics, insecticide resistance and selectivity.

7080 Population Ecology (3) See BIOL 7080.

7600 Entomology Extension Practicum (1-2) S Prereq.: consent of the course coordinator. This course may be taken for a max. of 2 hrs. of credit. Students will gain knowledge, training and experience in extension entomology. Emphasis on land-grant institution service, technology transfer, and initiating and evaluating an entomology extension project.

7946 Seminar: Current Topics in Molecular Evolution (1) See BIOL 7946.

7979 Tropical Biology: An Ecological Approach (1-8) See BIOL 7979.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Research Problems (1-4 per sem.) Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. credit.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

ENVIRONMENTAL ENGINEERING • EVEG

2000 Introduction to Environmental Engineering (3) F Prereq.: CHEM 1202 and MATH 1550. Credit will not be given for both this course and CE 2700. Basic principles of calculations in environmental engineering; overview of

professional ethics; regulations and multimedia aspects of environmental problem solving with emphasis on fundamental concepts and definitions.

3110 Water and Wastewater Treatment (3) Prereq.: CE 2200 (for CE and EVEC majors, a grade of "C" or better is required in CE 2200). Physical, chemical, and biological characteristics of water and wastewater; water quality regulation; basic reactor engineering; operation and simple design of physical, chemical, and biological unit processes in water and wastewater treatment.

3120 Chemical Equilibrium and Kinetics of Environmental Processes (3) F Same as CHE 3100.

3200 Water Resources Engineering (3) Prereq.: CE 2200, 2720. Fundamentals of fluid mechanics applied to problems in the field of water; steady and unsteady flow in closed conduits including analysis of water supply systems, flow in open channels, storm and wastewater collection systems, and turbo machinery; emphasis on computer methods.

3271 Senior Project I: Consulting Format (3) Prereq.: EVEC 3200, 3110. Student project teams tackle selected design projects within a designated time allocation. Project management (proposals, flow charts, technical content) mimicking methodologies utilized by professional consulting firms; findings presented using professional format, i.e., final reports address rationale, process treatment trains, and/or process sizing.

3272 Senior Project II: Consulting Format (3) Prereq.: EVEC 3271. Student project teams finalize design effort initiated in EVEC 3271. Construction of prototypes and bench scale demonstrations; extension of designs; simulation analysis.

3273 Independent Undergraduate Research Project (1-4) Prereq.: EVEC 4136, 4145 and consent of department.

Independent research project under the direction of a faculty member. Students develop the objectives and scope of the research and conduct appropriate analytical and experimental (field and/or laboratory) studies. Results and conclusion of the project are summarized in a report and defended orally.

3400 Environmental Engineering II (3) F,S Prereq.: CHEM 2060 (2261); EVEC 2000. Fundamentals of microbiology, ecology, enzyme kinetics, and biochemistry as applied to environmental engineering; applications to biological wastewater treatment; bioremediation of soil, air, surface and ground waters, landfill, and natural systems.

4105 Quantitative Water Management (3) Prereq.: EVEC 3110. Quantitative tools used to solve water management problems based upon hydraulic, mass balance, stoichiometric, kinetic, and equilibrium phenomena.

4110 Unit Operations Laboratory (2) Prereq.: CHEM 2060, EVEC 3110, EVEC 4145. Understanding of the physical, biological, and chemical operations and processes commonly utilized in environmental engineering; presentation of theoretical concepts and operational problems; laboratory experiments; and formal reports.

4120 Design of Solid and Hazardous Waste Management Systems (3) Prereq.: EVEC 3110 and EVEC 4125. Design of solid and hazardous waste systems; process selection; elements of waste management systems; physicochemical, biological, and thermal process design; regulations related to design of waste management systems.

4125 Environmental Transport Processes (3) S Prereq.: EVEC 3120 and EVEC 3200. Fundamentals of chemical transport in engineered environments and natural systems with an emphasis on applications to environmental engineering practice.

4130 Control and Treatment of Urban Storm Water (3) Prereq.: EVEC 3200, 3110 or equivalent background. Fundamentals of the interrelated processes of urban hydrology, storm water quality, and storm water treatment as impacted by anthropogenic activities within our constructed environment; design of hydrologic controls and unit operations and process control for storm water as a wastewater or reuse water.

4136 Water Quality Analysis Laboratory (1) Prereq.: CHEM 1212, ENGL 2000, EXST 2201 and credit or registration in EVEC 4145. Water quality analysis of wastewater and natural waters.

4139 Lakes Management and Modeling (3) Prereq.: CE 2200. Integration and application of limnological and engineering principles to the development of engineered restoration and management solutions for lakes and their watersheds; development and application of dynamic models for system management and solution development.

4140 Design of Wastewater Management Facilities (3) Prereq.: EVEC 3200 and 3110; civil engineering students enrolled in this course must have credit in CE 4750. 2 hrs. lecture; 3 hrs. lab. Design of wastewater management facilities; process selection and evaluation using computer-assisted procedures; preparation of design drawings, reports, and cost estimates.

4145 Environmental Engineering III (3) F Prereq.: CHEM 2060 (2261) and EVEC 3400 or consent of instructor. Application of chemical principles to water quality problems

in the area of water supply, wastewater treatment, and pollution of natural waters. Fundamentals of equilibrium chemistry, chemical kinetics, organic and colloidal chemistry as applied to environmental engineering.

4150 Integrated Environmental System Design I (3) F Prereq.: EVEC 3110 and EVEC 4125. Preliminary designs will be applied to final full designs in EVEC 4151. Principles of integrated environmental system design; economic, regulatory, and risk-based requirements in initial preliminary design of environmental systems incorporating minimization, destruction, treatment, and disposal technologies in all media; emphasis on preliminary design and screening of classical management systems.

4151 Integrated Environmental System Design II (3) S Prereq.: EVEC 4150. Continuation of EVEC 4150. Final project designs are presented to representatives of the public and private sectors. Economic, regulatory, and risk-based requirements in completion of environmental design projects developed in 4150; minimization, destruction, treatment, and disposal technologies in all media.

4153 Hazardous Waste Management (3) Prereq.: consent of instructor. Identification and classification of wastes; regulations; treatment, storage, and disposal techniques; facilities parameters.

4154 Sustainability Engineering (3) S Prereq.: CE 2450 or equivalent and consent of instructor. Engineering analysis and design approaches that minimize impacts on the environment, human health, and social conditions; ecodesign; life cycle assessment; full-cost accounting; pollution prevention.

4156 Water and Wastewater Treatment in Developing Countries (3) Prereq.: EVEC 3200 and EVEC 3110. Design of sustainable water and wastewater treatment approaches in the developing world; low-cost, low-energy, and low-maintenance treatment approaches; technology constraints; decentralized treatment strategies; case studies.

4157 Design of In Situ Waste Site Remediation Processes (3) F Prereq.: EVEC 3110 and EVEC 4125. Design of systems for in situ remediation of hazardous and industrial waste sites; unit processes for containment and recovery integrated into design of treatment trains for control of sources and attainment of cleanup goals; emerging technologies for vapor extraction, soil washing, bioremediation, and natural recovery employed to minimize cost and risk.

4159 Design of Natural Systems for Wastewater Treatment (3) F Prereq.: EVEC 3110. Design of constructed wetlands, lagoons, and land application systems for wastewater treatment; economic analysis, design, and selection criteria of natural systems for treatment of municipal and industrial wastewater.

4780 Special Topics in Environmental Engineering Design (3) Prereq.: senior standing and departmental approval. May be taken for a max. of 6 sem. hrs. of credit when topics vary. More than one section of this course may be taken for credit concurrently when topics differ. Selected topics in environmental engineering design.

4781 Special Topics in Environmental Engineering Science (3) Prereq.: senior standing and departmental approval. May be taken for a max. of 6 sem. hrs. of credit when topics vary. More than one section of this course may be taken for credit concurrently when topics differ. Selected topics in environmental engineering science.

ENVIRONMENTAL MANAGEMENT SYSTEMS • EMS

1011 Environment and Technology: Perspective on Environmental Problems (3) See ENVS 1000.

2011 Analysis of Environmental Issues (3) Prereq.: ENGL 1001. Also offered as AGRO 2011 and HORT 2011. An introduction to reading, writing, and speaking in the sciences, with an emphasis on environmental topics.

2051 Soil Science (4) See AGRO 2051.

3040 Applied Environmental Management (4) S Prereq.: EMS 1011, ENGL 2000. 3 hrs. lecture; 3 hrs. lab. Applications of planning, management, and decision making to environmental policy, systems, and management; evaluation of environmental decision making; environmental ethics; analysis of environmental issues at the local, state, and national levels.

3045 Soil Conservation (2) See AGRO 3040.

3050 Environmental Regulations and Compliance (3) F Prereq.: EMS 1011, ECON 2030 or AGE 2003. Local, state, and federal environmental regulations; enforcement of and compliance with regulations; roles of regulatory agencies.

3090 Environmental Internship (3) F,S Prereq.: permission of department and junior standing. Credit will not be given for this course and AGRO 3090. Professional experience in some aspect of environmental management; student must submit a proposal explaining internship goals and education component; reports, employer evaluation,

paper, and presentation are required.

4010 Applied Ecology (2) See ENVS 4010.

4020 Quantitative Risk Assessment (3) F,S Prereq.: six hours of chemistry and six hours of biological sciences, MATH 1431 or equivalent. Assessment of environmental risks; interactions of pollution/toxins with the human body; managing and predicting risks.

4030 Environmental Permit Writing (3) S Prereq.: ENGL 3002 or 3101, EMS 3040. May not be taken for graduate credit. Permit writing; permitting process; environmental assessment; environmental impact statements; communicating technical information.

4040 Environmental Instrumental Analysis (3) S Prereq.: CHEM 1201, 1202, 1212, 2001. 2 hrs. lecture; 2 hrs. lab. May not be taken for graduate credit. Analysis of pollutants in the environment; development of analytical technique; sampling of different media including soil and water.

4055 Chemical Properties of Soil (4) See AGRO 4055.

4056 Microbial Ecology and Nutrient Cycling in Soils (4) See AGRO 4056 or BIOL 4256.

4077 Environmental Soil Physics (3) See AGRO 4077.

4999 Senior Project in Environmental Management (1-3) F,S,Su Prereq.: permission of department, senior standing, and a minimum gpa of 3.00 on all course work taken in the major. This course may be repeated for up to 6 hrs. of credit. Course may not be taken for graduate credit. Student will develop and submit a research proposal to the faculty; student will work on a specific project under the supervision of a faculty member. This course is intended to prepare students for graduate work in some area of environmental management.

6011 Topics in Plant, Environmental, and Soil Sciences for Teachers (3) Prereq.: permission of department. May be taken for a max. of 6 hrs. of credit when topics vary. Also offered as AGRO 6011 and HORT 6011. Key concepts in life and earth sciences related to K-12 science education standards explored through inquiry-based investigations and other pedagogical approaches.

7057 Advanced Soil Physics (4) F See AGRO 7057.

ENVIRONMENTAL SCIENCES • ENVS

General education courses are marked with stars (★).

1000 Environment and Technology: Perspective on Environmental Problems (3) Also offered as EMS 1011. Environmental quality problems involving water, air, and land, and society's response to such problems; analysis of the interrelationships and nature of ecological stresses.

1051 Soils and the Environment (3) Complexity and diversity of the earth's land surface; soils and land use management, reclamation of mismanaged soils, and use of recyclable waste materials as soil amendments.

★ 1126 Introduction to Environmental Sciences (3) An honors course, ENVS 1127, is also available. Credit will not be given for both this course and ENVS 1127. Essential principles of environmental sciences; comprehensive and fundamental understanding of sound science, stewardship, and sustainability in environmental sciences; interactions and relations between humans and earth; an up-to-date look at today's global, national, and regional environmental issues.

1127 HONORS: Introduction to Environmental Sciences (3) Similar to ENVS 1126 with special honors emphasis for qualified students. Credit will not be given for both this course and ENVS 1126.

2144 Environmental Issues in Economics and Water Resources (3) Economic principles and control mechanisms governing man's interaction with the biosphere; engineering principles and technologies that transform the environment into commodities and unwanted waste; use cycles of water from its source through processing, reprocessing, use, reclamation, and disposal.

3102 Mathematical Methods in Science (3) Prereq.: MATH 1550, 1552, and EXST 2201 or equivalent. Introduction to numerical methods, data analysis, error propagation, box models, linear and nonlinear least squares, perturbation theory, numerical integration.

3999 Undergraduate Research (1-4) F,S,Su Prereq.: permission of instructor. May be taken for a max. of 4 hrs. of credit. Individual study of a specific environmental problem or individual laboratory research.

4010 Applied Ecology (2) Prereq.: minimum of 10 sem. hrs. of biological and/or physical science. Also offered as EMS 4010. The biosphere, air, land, and aquatic environments; development of alternative techniques for correcting environmental pollution; environmental risk assessment analysis and management.

4035 Aquatic Pollution (3) Prereq.: ENVS 1126 or OCS 1005 or OCS 1006; or OCS 2008 and 2009 or equivalent.

Credit will not be given for this course and ENV5 4036. Interdisciplinary study of the interaction between man and the aquatic environment and human impacts on marine and freshwater biological systems; biological, ecological, social, legal, and managerial aspects of water pollution are examined through a series of case studies.

4036 HONORS: Aquatic Pollution (3) *Prereq.: ENV5 1126 or OCS 1005 or OCS 1006; or OCS 2008 and 2009 or equivalent. Credit will not be given for both this course and ENV5 4035.* Same as ENV5 4035 with special honors emphasis.

4101 Environmental Chemistry (3) *See CHEM 4150.*

4112 Concepts in Coastal Eco-toxicology (3) *Prereq.: ENV5 1126, ENV5 4101 or ENV5 4035 or permission of instructor.* Coastal pollution and toxicology of industrial and non-point source materials related to ecological risk in near shore and inland coastal wetland areas.

4141 Radioecology (3) F *See NS 4141.*

4145 Remote Sensing Fundamentals for Environmental Scientists (3) Basic principles and concepts in remote sensing and its applications to environmental sciences. Emphasis is placed on remote sensing instrumentation and the acquisition of remote sensing data.

4149 Design of Environmental Management Systems (3) Environmental systems planning at local, national, and international levels; identification of system requirements and available resources; definition of constraints, establishment of evaluation criteria; evaluation of alternative concepts and plans for subsystems; implementation using qualitative tradeoffs, mathematical models, and computer simulations.

4261 Energy and the Environment (3) Methods of stationary power generation; pollution related to fuel production, transportation, and use; energy use and pollution problems related to transportation; energy resources, regulatory aspects, and control technology related to stationary and moving sources of air pollution.

4262 Environmental Hazards Analysis (3) Systematic framework for examining the nature and consequences of natural and man-made hazards; strategies that may be taken to plan, respond, recover, prevent, or mitigate hazards.

4264 Regulation of Environmental Hazards (3) Federal, state, and local regulation for mitigating the occurrence and effects of hazardous events, including the National Flood Insurance Act, Emergency Planning and Community Right to Know Act, and government planning and zoning authority.

4266 Ocean Policy (3) National and state ocean policy; Law of the Sea; regulation of the high seas; marine pollution, marine resources, and marine scientific research; other related topics.

4477 Environmental Toxicology: Introduction and Applications (3) *Prereq.: 6 hrs. of chemistry, 6 hrs. of life sciences, and permission of instructor.* Introduction to the basic principles of environmental toxicology; applications of these principles in industrial and other job related environments; regulatory perspectives; spills; anthropogenic pollution problems; human risk management; overview of classes of toxic agents, routes of exposure, target tissues (human mammalian), and toxicological testing.

4500 Health Effects of Environmental Pollutants (3) *Prereq.: minimum of 6 sem. hrs. of chemistry and 6 sem. hrs. of either biology or zoology.* Effects of environmental pollutants on human health and quality of life.

4600 Global Environmental Change: Past, Present, and Future (3) *See OCS 4600.*

4900 Watershed Hydrology (3) *Prereq.: an introductory statistics course. 1 1/2 hrs. lecture; 1 1/2 hrs. lab. Also offered as RNR 4900.* The principles of hydrology with emphasis on how natural systems are analyzed, modeled, and used in management decisions; laboratory exercises involve hands-on experience with hydrologic data analysis, use of geographic information systems (GIS), and spatial modeling.

4950 Special Topics in Environmental Sciences (1-3) *Prereq.: permission of the Department. May be taken for a maximum of 6 hours of credit. More than one section may be taken for credit concurrently when topics differ.* Special topics in environmental issues, problems, techniques, and/or methods.

6010 Topics in Environmental Science for Teachers (2-4) *May be taken for a max. of 8 sem. hrs. credit when topics vary.* Topics in environmental science with an emphasis on inquiry-based scientific learning and on issues of importance to Louisiana; hands-on activities and field trips will be major components of the class.

6011 Topics in Plant, Environmental, and Soil Sciences for Teachers (3) *Prereq.: permission of department. May be taken for a max. of 6 hrs. of credit when topics vary. Also offered as AGRO 6011 and HORT 6011.* Key concepts in life and earth sciences related to K-12 science education standards explored through inquiry-based investigations and other pedagogical approaches.

7010 Mathematical Modeling in Energy and Environmental Management (3) S *Prereq.: OCS 4410 or*

equivalent. Advanced studies in the development of models of energy and environmental systems.

7040 Environmental Planning and Management (3) *Prereq.: ENV5 4149.* Environmental systems planning and management at local, state, and federal government levels using problem identification; design of alternative solutions, evaluation of alternatives, political action decision processes, and implementation and monitoring.

7041 Environmental Policy Analysis (3) *Prereq.: EXST 7003 or 7004 or 7005; ENV5 7040.* Management-oriented approach to major phases of environmental policy; formulation, implementation, evaluation; theoretical bases and analytical techniques.

7042 Environmental Conflict Resolution (3) Practical approaches and techniques commonly used to mediate environmental conflicts and facilitate participatory group decision making among stakeholders.

7043 Environmental Law and Regulation (3) Introduction to basic principles of federal and state laws, regulations, and court decisions involving pollution of the environment, including the National Environmental Policy Act, Clean Water Act, Clean Air Act, Resource Conservation and Recovery Act, Oil Pollution Act; current topical legal developments.

7044 Regulation of Toxic Substances (3) Federal laws, regulations, judicial decisions, and policies regarding the development, production, use and disposal of toxic substances, including the Toxic Substances Control Act, Federal Insecticide, Rodenticide, and Fungicide Act, and the Food, Drug, and Cosmetic Act; toxic tort lawsuits will be reviewed.

7045 Land Use Law and Regulation (3) Federal, state, and local laws, regulations, judicial decisions, and policies regarding land use, land use planning, and environmental regulation of land use, including: zoning; subdivision regulation; planned unit development (PUD); comprehensive land use plans; limits on growth and urban sprawl; and regulatory "takings."

7046 International Environmental Law (3) International and multilateral agreements and practices for controlling pollution and depletion of natural resources; relationship between international trade agreements and environmental quality; other international environmental issues.

7047 Environmental Economics and Policy (3) S *Prereq.: ECON 4720 or equivalent or consent of instructor.* Economic concepts applied to the development of appropriate policies to achieve environmental protection goals; emphasis given to linkages between economics and the environment, the role of market failure, and economic instruments that can be used to address environmental concerns.

7050 Spatial Modeling of Environmental Data (3) *Prereq.: EXST 7003 or 7004 or 7005.* Development of an approach to analyze spatial and temporal processes for environmental data modeling.

7061 Water Quality Management and Policy (3) *Also offered as RNR 7061.* Physical, chemical, and biological characteristics of surface water in natural systems; sources and effects of water pollutants; water quality standards and criteria; total maximum daily loads; federal water quality regulations; watershed approach and application of mathematical models to water quality management.

7100 Environmental Toxicology (3) *Prereq.: CBS 4001.* Technical, ecological, and economic considerations relating to air, water, and soil contamination; classification and detection of environmental toxicants; their biological effects on current and future trends in agribusiness and the chemical, transport, and power industries.

7110 Toxicology of Aquatic Environments (3) *Prereq.: ENV5 7100. Cross listed with OCS 7110.* Aquatic pollution and toxicology of industrial materials related to environmental risk assessment in coastal areas; physical, chemical, and biological factors affecting the fate of toxicants in marine and freshwater coastal areas.

7112 Concepts in Marine Ecotoxicology (3) *Prereq.: ENV5 7100 and 7110 or permission of instructor. Also offered as OCS 7112.* Marine pollution and toxicology of industrial and non-point sources materials related to ecological risk assessment in coastal and marine areas; biological processes and wastes in the ocean; physicochemical processes and wastes in the ocean; laboratory and field techniques in epibiotic, endobiotic and fecal-sediment habitats; benthic habitats and metals/chemical specification/geoavailability; fish as a biological model; microcosm theory and design for littoral and neritic habitats; approaches to ecological risk assessment in marine habitats.

7151 Watershed Hydrology and Floodplain Analysis (3) *See RNR 7151.*

7200 Comparative Metabolism of Environmental Pollutants (3) *Prereq.: BIOL 4094 or consent of instructor.* Biochemical systems from various invertebrate, vertebrate, and plant species involved in metabolic activation and detoxification of xenobiotic substances; use of these systems as biomonitors of pollution impact.

7220 Biochemistry and Toxicology of Metals (3)

Prereq.: BIOL 4093, 4094; CHEM 2262. Also offered as BIOL 7220. Integration of metals and metal complexes with biochemical processes; adaptations of the coordination sphere of metal complexes to life function; metalloenzymes and metalloproteins; properties and modifications of metals that impart specialized biochemical function, as well as toxicity, mutagenicity, carcinogenicity.

7335 Water Quality Modeling for Management (3) *Prereq.: ENV5 7061 or permission of instructor.* Problems and approaches in water quality modeling, with particular attention to model uncertainty, model choice, and applications for management; basic modeling concepts, mechanistic models, empirical models, modern statistical methods and uncertainty analysis applied to problems of eutrophication, toxic substances, and trend assessment.

7385 Decision Theory and Environmental Risk Analysis (3) Fundamental principles and techniques involved in decision making and environmental risk analysis; methods for identifying decisions that optimize outcomes; rationality (utility) and interactive (game theory) decision theory, and application of decision theory to natural resources and environmental policy-making.

7622 Fundamentals of Carcinogenesis (3) S-E *Prereq.: CBS 7603 or consent of instructor. Same as CBS 7622 and BIOL 7622.*

7623 Toxicology I (3) *Prereq.: ENV5 4477 or consent of instructor.* Fundamental principles of toxicology, dose response relationship, design and conduct of acute and chronic toxicity tests, basic analytical toxicology, biochemical markers, basic principles of hazard evaluation and risk assessment, industrial toxicology, principles of toxicology applied to the environment and ecosystems.

7624 Toxicology II (3) *Prereq.: ENV5 7623 or consent of instructor.* Toxicokinetics; xenobiotic transport, distribution, metabolism, excretion; principles of receptor interaction.

7625 Toxicology III (3) *Prereq.: ENV5 7623 or consent of instructor.* Toxicology of major organ systems, to include dermal, pulmonary, hepatic, cardiovascular, renal, neural with both CNS and PNS, immune, gastrointestinal, and reproductive; target organ toxicology with mechanistic study of the pathophysiology of classic and prototype toxicants.

7626 Toxicology IV: Genetic Toxicology (3) *Prereq.: ENV5 7623 or approval of instructor. Also offered as BIOL 7626.* Evaluation of induced heritable and/or phenotypic changes in the organism and individual cells (germline and somatic); emphasis on human and mammalian species; reproductive toxicology and teratogenesis; testing and screening agents for genotoxic activities; molecular genetic approaches to human and environmental biomonitors.

7699 Toxicology Seminar (1) *See CBS 7699.*

7700 Integrated Environmental Issues (3) Multidisciplinary analysis of a current environmental issue. Discussion of topics from the perspectives of natural science, economics, social science, and political science. Integration and synthesis of information to develop a science-based approach to environmental decision-making.

7900 Special Problems in Environmental Sciences (1-4) *May be taken for a max. of 4 hrs. credit.* Individual study of a specific environmental problem.

7950 Special Topics in Environmental Sciences (1-6) F,S,Su Research and methodological review of current topics.

7995 Environmental Seminar (1) F,S Reports and discussions of student/faculty activities in environmental sciences.

7998 Environmental Colloquium (2) *Non-thesis students only. May only be taken during semester of graduation.* Written and oral presentation of a literature review on a selected environmental issue, as approved by the departmental non-thesis committee.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

EXPERIMENTAL STATISTICS • EXST

General education courses are marked with stars (★).

2000 Introduction to Microcomputers (3) F,S,Su 2 hrs. lecture; 2 hrs. lab. *Credit will not be given for this course and CSC 1100, ISDS 1100, and LIS 2001.* A user-oriented introduction to microcomputers and applications software; terminology; hardware; software: the operating system, word processing, spreadsheets, data management, graphics, communications.

★ 2201 Introduction to Statistical Analysis (4) F,S 3 hrs. lecture; 2 hrs. lab. *Prereq.: MATH 1021 or equivalent.* Descriptive statistics; inferential statistical methods including confidence interval estimation and hypothesis testing for one and two population means and proportions; one-way analysis of variance; simple linear regression and

correlation; analysis of categorical data.

2215 Exploratory Statistical Data Analysis (3) V Prereq: EXST 2201 or equivalent. 2 hrs. lecture; 2 hrs. lab. Graphical analysis, perception, and construction rules; descriptive statistics; graphs for data exploration and decision making.

3201 Statistical Analysis II (4) S Prereq.: EXST 2201 or equivalent. 3 hrs. lecture; 2 hrs. lab. Applied statistical modeling: multiple regression, variable selection, serial correlation, repeated measures, multivariate tools, logistic regression, blocking and factorial design, categorical data analysis, and nonparametric techniques.

3999 Supervised Independent Study and Research (1-4) V Prereq.: consent of instructor. May be taken for a max. of 8 sem. hrs. of credit with consent of department head.

Investigation of areas of interest not covered in other departmental courses, under the guidance of departmental faculty.

4012 Introduction to Sampling Techniques (3) Su Prereq.: EXST 2201 or equivalent. Simple random, stratified random, cluster, systematic, multistage, multiphase, and unequal probability sampling procedures methods and applications; ratio and regression estimation; non-response and non-sampling errors.

4025 SAS Programming (3) Su Prereq.: EXST 2201 or equivalent. Reading, processing, manipulating, transforming, and outputting data in various formats; descriptive and summary statistics procedures; subsetting and combining data sets; DO loops and arrays; industry standard programming practices.

4050 Principles and Theory of Statistics (4) F Prereq.: EXST 2201 or equivalent and MATH 1550 or equivalent. 3 hrs. lecture; 2 hrs. lab. Probability distributions as models for real-world processes; sampling distributions and the central limit theorem; estimation and confidence region methods; principles of hypothesis testing; modeling; emphasis on links between theory, methodology, and application.

4085 Seminar in Statistics (1) V Prereq.: consent of instructor. May be repeated for credit when topics vary. Topics not covered in other experimental statistics courses.

4087 Special Topics in Applied Statistics (3) V Prereq.: EXST 2201 or equivalent. May be taken for a max. of 6 sem. hrs. of credit when topics vary.

7003 Statistical Inference I (4) F,S 3 hrs. lecture; 2 hrs. lab. Prereq.: MATH 1021 or equivalent. Credit will be given for only one of the following: EXST 7003, 7004, 7005, 7009. Basic concepts of statistical models and sampling; descriptive and inferential methods; normal, t, chi-square, and F distributions; tests of hypothesis and estimation, analysis of variance, correlation, regression, analysis of categorical data; emphasis on social and behavioral sciences research problems; computer software applications.

7004 Experimental Statistics I (4) F,S 3 hrs. lecture; 2 hrs. lab. Prereq.: MATH 1021 or equivalent. Credit will be given for only one of the following: EXST 7003, 7004, 7005, 7009. Basic concepts of statistical models and use of samples; measures of variation and central tendency; normal, t, chi-square, and F distributions; test of hypothesis, analysis of variance, regression, and correlation; emphasis on laboratory-oriented sciences research problems; computer software applications.

7005 Statistical Techniques I (4) F,S 3 hrs. lecture; 2 hrs. lab. Prereq.: MATH 1021 or equivalent. Credit will be given for only one of the following: EXST 7003, 7004, 7005, 7009. Basic concepts of statistical models and sampling methods, descriptive statistical measures, distributions, tests of significance, analysis of variance, regression, correlation, and chi-square; emphasis on field-oriented life sciences research problems; computer software applications.

7009 Statistical Methods I—Web-Based (3) V Prereq.: MATH 1021 or equivalent and knowledge of SAS statistical analysis software. Credit will be given for only one of the following: EXST 7003, 7004, 7005, 7009. Basic concepts of statistical models and use of samples; measures of variation and central tendency, normal, t, chi-square, and F distributions; tests of hypothesis; analysis of variance, regression, and correlation; emphasis on field-oriented life science research problems.

7011 Nonparametric Statistics (3) Su Prereq.: EXST 7003 or 7004 or 7005 or equivalent. Nonparametric one- and two-sample location and distribution tests, including binomial, chi-square, Kolmogorov-Smirnov, Mann-Whitney U, Wilcoxon; analyses of variance, including Cochran's Q, Kruskal-Wallis, Friedman; correlation and regression, including Kendall's tau, Spearman's rho, and point biserial.

7012 Fundamental Sampling Techniques (3) Su Prereq.: EXST 7003 or 7004 or 7005 or equivalent. Simple and stratified random sampling; ratio and regression estimation; cluster, multistage, and multiphase sampling procedures; systematic sampling; nonresponse and nonsampling errors; links between methodology and application emphasized.

7013 Statistical Inference II (4) S Prereq.: EXST 7003 or equivalent. 3 hrs. lecture; 2 hrs. lab. Credit will be given for

only one of the following: EXST 7013, 7014, 7015, 7019. Analyses of variance and experimental designs; completely randomized and complete block designs; latin square designs; split plot; arrangements of treatments; multiple comparisons; covariance analysis; multiple and curvilinear regression techniques; emphasis on social and behavioral sciences research problems.

7014 Experimental Statistics II (4) F Prereq.: EXST 7004 or equivalent. 3 hrs. lecture; 2 hrs. lab. Credit will be given for only one of the following: EXST 7013, 7014, 7015, 7019. Multiple classification analysis of variance and covariance, individual degrees of freedom, factorial arrangement of treatments, and multiple regression; emphasis on science/laboratory research problems.

7015 Statistical Techniques II (4) F,S Prereq.: EXST 7005 or equivalent. 3 hrs. lecture; 2 hrs. lab. Credit will be given for only one of the following: EXST 7013, 7014, 7015, 7019. Multiple classification analyses of variance and covariance, sampling designs, parameter estimation, multiple regression and correlation, tests of specific hypothesis, and factorial experiments; emphasis on field-oriented life sciences research problems

7019 Statistical Methods II—Web-Based (3) V Prereq.: EXST 7003 or 7004 or 7005 or 7009 or equivalent and knowledge of SAS statistical analysis software. Credit will be given for only one of the following: EXST 7013, 7014, 7015, 7019. Multiple classification analyses of variance and covariance; sampling designs, parameter estimation, multiple regression and correlation, tests of specific hypotheses, and factorial experiments; emphasis on field-oriented life science research problems.

7022 Statistical Aspects of Quantitative Genetics (3) V Prereq.: EXST 7014 or equivalent and AGRI 2072 or equivalent. Statistical aspects of quantitative inheritance; partitioning of variance; covariance among relatives; theory of inbreeding; estimation and testing of genetic parameters; best linear prediction of genetic merit; mixed model application; selection theory.

7023 Advanced Topics in Statistical Genetics (3) V Prereq.: EXST 4050 or equivalent and 7022. Topics not covered in other experimental statistics courses, such as best linear unbiased prediction of genetic merit; likelihood-based methods for genetic parameter estimation; analysis of selected populations; methods for quantitative genetic analysis of discrete data.

7024 Biological Population Statistics I (3) V Prereq.: EXST 7005 or equivalent. Specialized sampling for estimation of plant and animal population parameters including density and abundance, survival, recruitment, space-use, and spatial pattern; methods used include quadrats, line transects, plotless sampling techniques, change-in-ratio estimators including capture-recapture and exploitation or catch-per-effort estimators, and home range models.

7025 Biological Population Statistics II (3) V Prereq.: EXST 7015 or equivalent. Extensive development and application of statistical techniques to parameter estimation in population dynamics; principles of model building and role of model building in population management.

7031 Experimental Design (3) S Prereq.: EXST 7013 or 7014 or 7015 or equivalent. Comparison of designs, models, and analyses; emphasis on factorial experiments, complete and incomplete block designs, and confounding.

7032 Survey Design (3) V Prereq.: EXST 7013 or equivalent. Comparison of experimental and quasi-experimental designs; repeated measures, covariance analysis, and confounding in factorial experiments; emphasis on social and behavioral science research problems.

7034 Regression Analysis (3) F Prereq.: EXST 7013 or 7014 or 7015 or equivalent; and knowledge of matrix algebra. Fundamentals of regression analysis, stressing an understanding of underlying principles; response surfaces, variable selection techniques, and nonlinear regression.

7035 Applied Least-Squares (3) S Prereq.: EXST 7013 or 7014 or 7015 or equivalent. Applications of least squares methods; usual constraints, no constraints, and means model constraints to unbalanced cross classified and nested data; emphasis on analysis of variance and covariance for fixed effects models.

7036 Categorical Data Analysis (3) S Prereq.: EXST 7013 or 7014 or 7015 or equivalent. Statistical techniques used in analyzing data from discrete distributions; contingency tables, loglinear and logit models, logistic regression, and repeated measures for nominal and ordinal data; emphasis on computer analysis and interpretation.

7037 Multivariate Statistics (3) F Prereq.: EXST 7013 or 7014 or 7015 or equivalent; and knowledge of matrix algebra. Comparison of multivariate techniques and analyses; emphasis on discriminant analysis, factor analysis and principal component analysis, canonical correlation, cluster analysis, and multivariate analysis of variance.

7038 Statistical Methods for Spatial Data (3) F Prereq.: EXST 7013, 7014, 7015 or 7019. Overview of statistical methods for spatial data with emphasis on data analysis: fixed

point spatial data, point pattern data, area data; topics include spatial correlation, variograms, kriging and spatial prediction; spatial sampling; and spatial experimental design; applications from other disciplines are encouraged, course work includes relevant statistical software and term project.

7039 Statistical Methods for Reliability and Survival Data (3) S Prereq.: EXST 7013 or 7014 or 7015. Characteristics of lifetime data; non-parametric methods including Kaplan Meier estimation; lifetime parametric models, parametric methods for single distribution data; planning life test; system reliability concepts; failure time regression; accelerated testing.

7060 Probability and Statistics (3) F Prereq.: MATH 2057 or equivalent. Probability, random variables, discrete and continuous distribution functions; expected values, moment generating functions; functions of random variables.

7061 Statistical Theory (3) S Prereq.: EXST 7060 or equivalent. Point estimation; hypothesis testing; interval estimation; large sample theory; new developments in statistical inference.

7062 Advanced Topics in Statistical Theory (3) V Prereq.: EXST 7061. May be repeated for credit when topics vary. Topics of current interest; emphasis on theoretical development of statistical methodology.

7083 Practicum in Statistical Consulting I (2) V Prereq.: EXST 7013 or 7014 or 7015, and permission of instructor. 4 hrs. independent study. Pass-fail grading. Supervised application of statistical techniques to research problems; readings, oral presentations, and discussions on statistical consulting; problem-solving; mock-consulting sessions; participation in real-life statistical consulting sessions under faculty supervision.

7084 Practicum in Statistical Consulting II (2) F,S,Su Prereq.: EXST 7083 and permission of instructor. 4 hrs. independent study. Pass-fail grading. May be taken for a max. of 6 sem. hrs. credit. Primary responsibility for statistical consulting projects under the supervision of graduate faculty.

7085 Special Problem in Statistics (1-3) F,S,Su Prereq.: permission of department. Pass-fail grading. A technical paper on an advanced topic in statistics is required. Development of a topic in advanced statistics under faculty supervision.

7086 Advanced Seminar in Statistics (1) F,S,Su Prereq.: consent of instructor. May be repeated for credit when topics vary. Pass-fail grading. Develop and present a 50-minute seminar on an advanced topic in statistics as a part of the department's seminar series.

7087 Advanced Topics in Statistics (1-3) V Prereq.: consent of instructor. May be repeated for credit when topics vary. Lectures on advanced topics in statistics not covered in other experimental statistics courses.

7142 Statistical Data Mining (3) F Prereq.: EXST 7013, 7014, 7015, 7019, or equivalent. Data preparation tools; model prediction; objects grouping; and variables classification.

7151 Bayesian Data Analysis (3) V Prereq.: EXST 7013 or 7014 or 7015 and EXST 7060; or consent of department head. Introduction to Bayesian statistical methods and their application in fields such as agriculture, biology, engineering, and medicine; topics include non-informative, conjugate and elicited priors; posterior development; common single and multiple parameter models such as binomial, normal, Poisson, and exponential; hierarchical models; hypothesis testing and credible sets; posterior simulation via Markov Chain Monte Carlo; and performance of Bayesian procedures.

7999 Independent Study (1-3) F,S,Su Prereq.: permission of instructor. May be taken for a max. of 9 sem. hrs. of credit when topics vary. Independent study under the guidance of graduate faculty.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

FILM & MEDIA ARTS • FMA

2001 Introduction to Film and Media Arts (3) Study of film, television, and video.

3001 Special Topics in Film and Media Arts (3) May be taken for a max. of 6 hrs. of credit when topics vary. Selected topics relevant to the study of the film and media arts.

4001 Advanced Topics in Film and Media Arts (3) May be taken for a max. of 6 hrs. of credit when topics vary. Advanced topics relevant to the study of film and media arts.

FINANCE • FIN

In the Department of Finance, the second digit of the course number denotes the subject area of the course, as follows: 2—Business law; 3—Real estate; 4—Risk and insurance; 6—Finance (capital markets and financial institutions); 7—Finance (financial management); 8—Finance (investment analysis/portfolio theory); 9—General courses. Prerequisites for any finance course may be waived in exceptional cases with consent of the instructor and approval of the department chair.

3115 Financing and Legal Aspects of Entrepreneurship (3) Prereq.: MGT 3111; FIN 3715 or 3716; BLAW 3201, and entrepreneurship concentration or entrepreneurship minor or permission of instructor. Also offered as MGT 3115.

Financing and legal issues affecting entrepreneurs; acquisition of resources through debt, equity, research grant models (SBIR, NIH, etc.), and venture capital.

3351 Principles of Real Estate (3) Prereq.: BLAW 3201 or FIN 3715 or 3716. Purchasing, owning, and operating real estate relative to interest in realty, liens, contracts, deeds, titles, leases, brokerage, management.

3352 Real Estate Valuation and Investment (3) Prereq.: FIN 3351 or 3715 or 3716 or equivalent. Principles of valuation applied to single-family and income-producing real property; techniques for making investment decisions in alternative types of real property; cash flow analysis considering income tax effects, financial leverage, risk-return trade-offs, and alternative methods of disposition.

3353 Real Estate Finance (3) Prereq.: FIN 3351 or 3715 or 3716 or equivalent. Real estate financing decisions for residential and income-producing properties; risk-return analysis for varying conditions of financial leverage; decision making related to pricing, alternative financing methods, refinancing, mortgage portfolio management; financing methods; government involvement in mortgage market and housing finance.

3354 Topics in Real Estate (3) Prereq.: FIN 3352 or 3353 or consent of instructor. Topics vary.

3355 Real Property Law (3) Prereq.: BLAW 3201. Rights and obligations that attach to various types of ownership of immovable property both in Louisiana and Anglo-American jurisdictions.

3440 Risk and Insurance (3) Prereq.: BLAW 3201. Nature of nonspeculative risks and possible alternative methods of treating them; specific application of these methods to personal and business risks arising from life, health, property, and liability contingencies; influence of public policy on risk treatment.

3441 Life and Health Insurance (3) Prereq.: FIN 3440. Analysis of insurance protecting against economic loss caused by termination of earning capacity through premature death, disability, or old age; derivation of premiums, reserves, benefits; legal aspects; operational features; use of contracts and provisions; disability income protection.

3442 Property and Liability Insurance (3) Prereq.: FIN 3440. Property and liability risks; insurance coverages available to meet these risks; basic insurance principles that apply in various property and liability insurance contracts; functional aspects of insurance company operations.

3460 Risk Management (3) Prereq.: FIN 3715 or 3716. Risk management from the business manager's viewpoint; insurance and financial market methods of pooling and managing risk; identification and evaluation of risk; hedging, self insurance, recontracting and organizational design.

3632 Bank Administration (3) Prereq.: FIN 3715 or 3716. For students interested in commercial banking careers or in the role of banks within the American enterprise system.

Economic role and evolution of banks; structure of banking; lending and investment techniques; bank organization and regulation; asset and liability management; credit risk management; bank performance analysis.

3636 Financial Markets and Institutions (3) Prereq.: FIN 3715 or 3716 or equivalent. Characteristics and functions of financial markets and institutions; process of financial intermediation and allocation of financial resources; analysis of current developments in financial institutions and in money and capital markets; factors in interest rate determination; management of credit risk, interest rate risk, and operating risk.

3715 Business Finance (3) Prereq.: ECON 2000 and 2010, or 2030; and ACCT 2000 or 2001; credit will not be given for this course and FIN 3716 or KIN 3804. Not open to students in the E. J. Ourso College of Business. Finance function within the business enterprise; techniques of financial management, concepts of capital structure and dividend policy, working capital management, capital budgeting, institutional and international environment of the firm.

3716 Financial Management (3) Prereq.: ECON 2000 and 2010 and ACCT 2001. Credit will not be given for both this course and FIN 3715 or KIN 3804. Intended primarily for

students in the E. J. Ourso College of Business. Students minoring in business should enroll in FIN 3715. Principles and procedures of financial management; investment and financing decisions within the business enterprise.

3717 Advanced Business Finance (3) Prereq.: FIN 3716. Open only to finance majors; open to others with permission of department. Material presented in real-world cases. Hands on applications of financial tools introduced in FIN 3716; financial analysis, forecasting, capital budgeting, and business evaluation.

3718 Multinational Managerial Finance (3) Prereq.: FIN 3715 or 3716. Multinational financial management; nature of international finance system; financing, investment, and risk management of the multinational corporation.

3826 Investments (3) Prereq.: FIN 3716. Open only to finance majors; open to others with permission of the department. Characteristics and valuation of common stocks, bonds, options, function, and efficiency of U.S. securities markets; theory and practice of portfolio selection.

3840 Fixed Income Securities (3) Prereq.: FIN 3826. Mechanics of fixed-income markets and securities; valuation of fixed income securities and contingent claims; interest rate risk, term structure, product fundamentals, and bond portfolio strategies.

3845 Student Managed Investment Fund (3) Prereq.: FIN 3715 or 3716 or equivalent and permission of instructor. Course may be repeated for a max. of 9 sem. hrs. of credit.

Analysis of equity investment opportunities in conjunction with the management of the Student Managed Investment Fund; emphasis on valuation techniques and fundamental analysis; operation of investment reporting systems.

3900 Directed Study and Research (1-6) Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. of credit. Research under direction of faculty member; written proposal must be approved by faculty member and department chair prior to registration.

3910 Topics in Finance (1-3) Prereq.: FIN 3826 or consent of instructor. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Topics of current interest.

3930 Undergraduate Internship in Finance (3) Prereq.: FIN 3715 or 3716, junior or senior standing, and consent of department. Pass/fail grading based on a written evaluation by the professional supervisor, a written report by the student, and the faculty member's evaluation. At least 20 hours per week in regular semester or 35 hours per week in summer session of learning experience in finance under the general supervision of a faculty member and the direct supervision of a professional in finance. May not be repeated for credit. On-the-job experience in an approved finance or business law position.

4240 Cyberlaw and Intellectual Property (3) Prereq.: BLAW 3201 or BADM 7140, and consent of instructor.

Fundamentals of patent, trademark and copyright law; legal principles applied to the regulation of the Internet and electronic commerce, including intellectual property, torts, contracts, constitutional principles, and crimes.

4440 Group Insurance and Pensions (3) Prereq.: FIN 3440. Life and health insurance in various areas involving mortality and morbidity contingencies; types of health risk bearers and contracts offered; employee benefit plans with emphasis on the private pension function, including contractual arrangements, benefit formulas, and approaches to financing.

4828 Security Analysis and Portfolio Management (3) Prereq.: FIN 3826 or equivalent. Open only to Finance majors; open to others with permission of department. Security selection and portfolio diversification in an efficient market; portfolio theory and management; portfolio building and selection; portfolio performance evaluations.

4830 Analysis of Corporate Financial Statements (3) Prereq.: FIN 3716 or equivalent. Open only to finance majors; open to others with permission of department. Evaluation of financial statements; emphasis on their use in credit analysis and in evaluation of security risks and returns; recent research in accounting and finance; predictive ability of financial statement data.

4850 Financial Derivatives (3) Prereq.: FIN 3636, 3717, or 3826. Open only to Finance majors; open to others with permission of department. Options, forwards, futures, swaps, and other derivative instruments; principles of pricing, valuation models, trading strategies, and managing risk in domestic and global financial markets.

7300 Seminar in Real Estate (3) Questions facing participants in the real estate market, including equity investors, lenders, tenants, and government; purchasing, owning, and operating real estate relative to interest in realty contracts; deeds, title, leases, brokerage, and management.

7310 Real Estate Financial Decisions (3) Questions concerning real estate finance and valuation; risk-return trade-offs under varying conditions of financial leverage; refinancing; selecting between alternative financing methods; mortgage design, sale-leaseback, construction lending, secondary mortgage markets, and the pricing of financing

instruments.

7320 Advanced Topics in Real Estate (3) Prereq.: FIN 7300 or 7310 or consent of instructor. May be taken for a max. of 6 hrs. of credit if topics vary.

7400 Financial Risk Management (3) Prereq.: BADM 7090 or equivalent. Risk management of corporations, financial institutions, governments, and non-profit organizations; characteristics of financial contracts and markets and applications of these contracts to risk management problems; the value of risk management, measuring exposures, financial contracts for managing risk, the enterprise risk management industry, and the accounting and regulatory framework; market and credit risks are the primary focus, but some attention is also given to operational and other sources of risk.

7520 Seminar in Financial Research Methods (3) Primarily for doctoral students. Financial economics; empirical behavior of financial markets; topics including trading rules and the efficient market hypothesis; market microstructure; event studies.

7550 Theory of Finance (3) Prereq.: ECON 7610 or equivalent. Theory of choice under certainty and uncertainty; time-state preference models of risk allocation; mean-variance asset pricing models; arbitrage pricing models; option pricing models; discrete and continuous time models.

7585 Advanced Topics in Financial Economics (3) Prereq.: consent of instructor. May be taken for a max. of 9 sem. hrs. of credit. Also offered as ECON 7585. Specific areas in finance and financial economics; emphasis on rigorous empirical methodologies and theory.

7632 Seminar in Commercial Banking (3) Commercial banking theory and history, quantitative techniques applied to bank asset and liability management, banking structure, markets and competition, capital adequacy and profitability.

7633 Financial Markets (3) Prereq.: BADM 7020 and 7080. Theoretical and empirical exposition of financial markets and institutions; their role in the economy; determination of the general level, risk structure, and the transaction structure of security returns; emphasis on U.S. financial markets.

7650 Seminar in Financial Markets and Intermediaries (3) Prereq.: FIN 7550. Primarily for doctoral students. Markets and intermediaries as alternative institutional mechanisms for structuring financial transactions; transaction services provided by these institutions; benefits and costs of these transaction services as determinants of the structure and extent of the financial sector.

7710 Public Financial Management (3) Cross-listed as PADM 7710.

7718 Multinational Financial Management (3) Prereq.: BADM 7090 or equivalent. Cross border investment, investment analysis, capital planning, foreign currency exposure, and cash management; concepts of political risk assessment; techniques in transactional trade; alternative financial sources; issues in international financial controls.

7719 Advanced Financial Management (3) Prereq.: BADM 7090. Theory of business finance and evaluation of its usefulness to financial managers; capital expenditure, capital structure, and dividend decisions; legitimacy of alternative decision criteria; implications of uncertainty and imperfect capital markets on firm financial decisions.

7720 Topics in Business Finance (3) Prereq.: BADM 7090 or equivalent. Detailed treatment of topics not covered in depth in BADM 7090 or FIN 7719; prospectus usually available before registration.

7740 Venture Capital and Investment Banking (3) Prereq.: BADM 7090 or equivalent. The role of venture capitalists and investment banks in financing, advising, and influencing companies through the initial public offering; the structure of venture capital funds; staging of investments; compensation; valuation; interactions between venture capital and economic activity, the legal environment, and social and ethical norms.

7750 Seminar in Corporate Finance (3) Prereq.: FIN 7550. Primarily for doctoral students. Theory of choice under certainty and uncertainty; investment and financing decisions of the firm; the agency problem and agency costs; capital structure and dividend models related to corporate control.

7826 Investment Analysis and Portfolio Theory (3) Prereq.: BADM 7020 and 7030. Institutional elements of capital markets, mechanics of securities trading; analytic techniques for evaluating investment management; behavior of security prices, efficient diversification, techniques for measuring performance of securities and portfolios, security valuation, portfolio selection.

7845 Student Managed Investment Fund (3) Prereq.: BADM 7090 or equivalent and permission of instructor. Course may be repeated for max. of 9 sem. hrs. of credit. Management and operation of the Student Managed Investment Fund; calculation and monitoring of

performance in an institutional equity portfolio; establishment of investment objectives, including asset allocation and selection, and assessment and management of risk; settlement, accounting, and reporting of results.

7850 Seminar in Investments (3) Prereq.: FIN 7550. Primarily for doctoral students. Speculative price as a stochastic process; information revelation in and through speculative price; normative and positive models of investment theory; applications of contingent-claims/derivative securities pricing; theory and empiricism of fixed income securities.

7855 Seminar in Options, Futures, and Other Derivatives (3) Prereq.: FIN 7826 and ECON 7610 or equivalent; consent of instructor; mathematical maturity required. Arbitrage and equilibrium models of derivative pricing; models derived via continuous time Ito processes; binomial, finite difference, Monte Carlo and other numerical approaches; review of mathematical statistics, stochastic processes, and Ito calculus.

7900 Individual Study in Finance (3) Masters and doctoral students may take the course for credit 3 and 6 times, respectively. For students who wish in-depth study of a selected finance problem. Proposal outlining nature and objectives of a research project must be approved by department faculty prior to registration; written report of semester's activities and findings required for credit.

7930 Graduate Internship in Finance (3) Prereq.: consent of department. Pass/fail grading based on a written evaluation by the professional supervisor; a written report by the student, and the faculty member's evaluation. At least 20 hrs. per week in regular semester or 35 hrs. per week in summer session of learning experience in finance under the general supervision of a faculty member and the direct supervision of a professional in finance. On-the-job experience in an approved finance position.

7950 Seminar in Research (1) Required of all doctoral students in business administration concentrating in finance during each semester of full-time residence; only 3 sem. hrs. may be applied toward the degree. Advanced research in finance; current research of doctoral candidates, faculty, and invited guests.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Pre-dissertation Research (1-9) May be repeated for credit. Pass-fail grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

FOOD SCIENCE • FDSC

1049 Science of Foods (2) F Concepts and principles related to selection, preparation, processing, preservation, distribution, and use of foods.

2000 Fundamentals of Food Science (3) S Prereq.: BIOL 1201 and CHEM 1201 or permission of instructor. Introduction to scientific principles in chemistry of food constituents, new product development, food preservation, processing, packaging, and safety.

3000 Food Safety (3) F Prereq.: BIOL 1201 and CHEM 1201 or permission of instructor. Basic concepts of food safety including: introduction into food safety; extensive examination of causative agents responsible for food borne illness; and food borne illness case studies.

3900 Food Science Research (1-3) Prereq.: permission of department. May be taken for a max. of 6 sem. hrs. of credit. Student outlines and executes project and prepares a written report; problems related to processing, quality control, safety, and nutritional evaluation of food stuffs.

3999 Food Science and Technology Seminar (1) F,S Prereq.: permission of department. May be taken for a max. of 2 sem. hrs. credit. Scientific seminar preparation and presentations on selected topics in food science and technology.

4005 Food Engineering Systems (3) S-O Prereq.: PHYS 2001 and MATH 1441 or equivalent. 2 hrs. lecture; 3 hrs. lab. Application of engineering principles to various unit operations in food processing.

4040 Quality Assurance in the Food Industry (4) S-E See DARY 4040.

4050 Food Composition and Analysis (4) S Prereq.: FDSC 4060 and CHEM 2060 or 2261; or equivalent. 3 hrs. lecture; 3 hrs. lab. Principles of official and acceptable chemical and physical methods used in food analysis; application of these methods to examination of raw and processed foods.

4060 Food Chemistry (4) F Prereq.: BIOL 2083 and either CHEM 2060 or CHEM 2261; or equivalent. 3 hrs. lecture; 3 hrs. lab. Chemistry of food components; reactions occurring during processing and storage.

4070 Food Laws, Standards, and Regulations (2) F Prereq.: consent of instructor. Federal, state, and city food laws, and how they are regulated, manufactured, distributed, and use of foods, additives and regulated products.

4075 Food Preservation (3) F Prereq.: CHEM 2060 or 2262 or equivalent, BIOL 2051, and at least 3 sem. hrs. in any food

science course; or consent of instructor. 2 hrs. lecture; 3 hrs. lab. Microbiology and biochemistry of food spoilage; engineering techniques of food preservation and food plant sanitation; methods of food preservation.

4076 Food Product Development (3) S Prereq.: FDSC 4060 and 4095. 2 hrs. lecture; 3 hrs. lab. Capstone course that food science students should take in their last spring semester of their program, after having taken a majority of their food science courses. Development of new food products; marketing, package design, and other aspects of product development.

4086 Seafood Processing (3) S Prereq.: BIOL 1201 and CHEM 1201 or permission of instructor. Examination of all aspects of seafood processing including: history and economic importance of the seafood processing industry; resources; processing techniques (freezing, canning, drying, salting, and pickling); processing by species; storage and distribution; and regulatory and food safety considerations.

4095 Principles of Sensory Evaluation of Foods (4) F Prereq.: EXST 2201 or equivalent. 3 hrs. lecture; 3 hrs. lab. Theory and current practices used to evoke, measure, analyze, and interpret reactions to those characteristics of foods and materials as they are perceived by the human senses of sight, smell, taste, touch, and hearing.

4162 Food Microbiology (4) S Prereq.: BIOL 2051 and consent of department. 2 hrs. lecture; 4 hrs. lab. Also offered as BIOL 4162. Microbiological principles as applied to food and food products; emphasis on rapid detection of food borne microorganisms.

4163 Industrial Microbiology (4) Prereq.: BIOL 4110 or equivalent. 2 hrs. lecture; 4 hrs. lab. See BIOL 4163.

7000 Perspectives in Nutrition (1) F Development of nutrition as a science; current trends in nutritional research.

7010 Food Toxicology (3) S-O Prereq.: FDSC 4060 or permission of instructor. Principles of risk assessment, food chemical safety and toxicology; mycotoxins, aquatic toxins; natural toxins; food additives; and other food toxins.

7016 Current Topics Related to Nutrients in Processed Foods (3) V Effects of processing on nutrient retention in food.

7020 Food Packaging (3) S-E 2 hrs. lecture; 3 hrs. lab. Food package systems related to specific products and processes. Product composition, problems and packaging solutions, and shelf life considerations.

7030 Advanced Food Research (1-6) Prereq.: consent of instructor. May be taken for a max. of 9 sem. hrs. of credit. Individual problems in pertinent areas.

7040 Flavor and Colors of Foods (3) F Prereq.: CHEM 2060 and FDSC 4060; or equivalent. 2 hrs. lecture; 3 hrs. lab. Methods of chemical, physical, and instrumental analysis in food colors and flavors; natural and synthetic flavorings and colorings.

7050 Food Protein Biotechnology (3) F-E Prereq.: FDSC 4060, 4050 or permission of instructor. Overview of contemporary principles and applications of protein and enzyme technology, genetic engineering, and immunology for the production of safe foods and food ingredients; proteins as functional food ingredients; applications and regulations of protein biotechnology in the food industry as well as ethical and legal issues; career opportunities in protein and enzyme biotechnology.

7060 Advanced Concepts in Food Science (3) V Prereq.: FDSC 4060 and BIOL 4087. Analysis of new and progressive concepts in food science.

7071 Seminar in Food Science (1) F,S May be taken for a max. of 3 hrs. of credit. Selected topics in food science and technology.

7075 Advanced Food Preservation (4) V Prereq.: FDSC 4060 or equivalent. 3 hrs. lecture; 3 hrs. lab including field trips to local food processors. Preservation technologies of various food processing operations from raw ingredients to final product.

7094 Seminar in Nutrition (1) Same as HUEC 7094. May be taken for a max. of 2 hrs. of credit. Prereq.: ANSC 7091, DARY 7091, FDSC 7071, HUEC 7010, PLSC 7091 or equivalent or previous slide (not poster) presentation at a professional meeting.

7699 Toxicology Seminar (1) See CBS 7699.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

FRENCH • FREN

Native speakers of French will not receive credit for courses marked with an asterisk (*).

General education courses are marked with stars (★).

*1001, ★1002 Elementary French (4,4) F,S,Su Students with previous study of French should take the French placement exam. Students who do not place in FREN 1002 or higher through the placement exam should

enroll in FREN 1001. Students with no previous study of French should enroll in FREN 1001. FREN 1001 or equivalent prior study is prerequisite for FREN 1002. Students completing FREN 1002 or equivalent or higher with a grade of "C" or higher may not enroll in FREN 1001 for credit without permission of department. Students completing FREN 2101 or higher or equivalent, with a grade of "C" or higher, may not enroll in FREN 1002 for credit without permission of department. Basic lexicon and structure of French; emphasis on communicative language use; supplementary work in language laboratory.

*1020 French for Reading Knowledge (3) Specialized course to satisfy departmental reading requirement for graduate students, but carrying no graduate credit. Undergraduates may enroll on pass-fail basis only. Does not count toward satisfying foreign language requirement for undergraduates, although hours may count toward baccalaureate. Credit will not be given for both this course and introductory French courses.

1201, ★1202 Elementary Cajun French (4,4) F,S Credit will not be given for both FREN 1001 and FREN 1201 nor for both FREN 1002 and FREN 1202. Students with previous study of French should take the French placement exam. Student who do not place in FREN 1002 or higher through the placement exam should enroll in FREN 1201. FREN 1001, 1201 or equivalent prior study is prerequisite for FREN 1202. Basic lexicon and structure of Cajun French; emphasis on communicative language use; supplementary work in language laboratory.

*2001 French for Travelers I (3) F,S Credit not applicable toward a major in French. Does not count toward satisfying foreign language requirement for undergraduates. Basic communication patterns; practical everyday vocabulary, with exercises in comprehension and conversation.

*2002 French for Travelers II (3) S Prereq.: FREN 2001. Credit not applicable toward a major in French. Does not count toward satisfying foreign language requirement for undergraduates. Intermediate level structures with emphasis on communication, comprehension, and conversation.

2028 French for Music (3) Prereq.: music majors are expected to have taken MUS 2018 and 2019 before enrolling in this course. Study of French language with emphasis on opera libretti and song texts.

2057 Introduction to French Phonetics (2) F Phonetic system of French; intensive oral practice with individual sounds; analysis of basic theoretical principles involved in French pronunciation.

★2101, ★2102 Intermediate French (3,3) F,S Honors courses, French 2103 and 2104 are also available. FREN 1002 or equivalent prior study is prerequisite for FREN 2101. FREN 2101 or equivalent prior study is prerequisite for FREN 2102. Students completing 2102 or equivalent or higher, with a grade of "C" or higher, may not enroll in FREN 2101 for credit without permission of the Department. Students Completing FREN 2155 or equivalent or higher, with a grade of "C" or higher, may not enroll in FREN 2102 for credit without permission of the Department. Continuation of elementary French. Structures and lexicon of French; additional emphasis on reading and writing; supplementary work in language laboratory.

★2103, ★2104 HONORS: Intermediate French (3,3) F,S Same as FREN 2101, 2102, with special honors emphasis for qualified students.

*2154 Intermediate Oral Communication (3) V Prereq.: FREN 2101, 2201 or concurrent enrollment in 2101 or 2201. Development of listening and speaking competency.

★2155 Readings in French Literature (3) F,S,Su Prereq.: FREN 2102 or equivalent. Introduction to interpretive reading of French texts; development of competency in written French.

★2201, ★2202 Intermediate Cajun French (3,3) F,S Prereq.: FREN 1202, 1002 or equivalent prior study is prerequisite for FREN 2201. FREN 2201, 2101 or equivalent prior study is a prerequisite for FREN 2202.

Credit will not be given for both FREN 2101 and FREN 2201 nor for FREN 2102 and FREN 2202. Continuation of elementary Cajun French. Structures and lexicon of French as it is spoken in Louisiana. Emphasis on comprehension and production of extended discourse, both oral and written; supplementary work in language lab and one field work project required.

2254 Intermediate Oral Communication in Cajun French (3) V Prereq.: FREN 2101, 2201 or concurrent enrollment in 2201 or 2101. Development of listening and speaking competency.

★2801 French Classics in Translation (3) For non-French majors. Introduction to the classics of French letters.

*3058 Advanced Oral Communication (3) V Development of listening and speaking competency using

video and text materials; special problems in spoken French including register and variation.

3060 Advanced French Grammar and Composition (3) F,S Prereq.: *FREN 2155 or registration in FREN 2155 or equivalent, or permission of instructor.* Special problems in French grammar and syntax; emphasis on the written language.

★ **3071 Survey of French Literature (3) F,S Prereq.:** *FREN 2155 or equivalent.* French majors are strongly urged to enroll in this course before their senior year. Development of French literature from its beginnings through the 18th century.

★ **3072 Survey of French Literature (3) F,S Prereq.:** *FREN 2155 or equivalent.* French majors are strongly urged to enroll in this course before their senior year. Continuation of *FREN 3071*. The main authors and literary movements from the 18th century to the present.

3076 Introduction to Francophone Cultures (3) V Prereq.: *FREN 3060 or equivalent.* An overview of the manifestations of Francophone cultures in Africa, the Caribbean, Southeast Asia, and Canada.

★ **3080 French Culture and Civilization (3) V Prereq.:** *FREN 2155.* Taught in French. Various aspects of French culture and civilization; emphasis on those factors necessary for understanding contemporary France and the Francophone world.

3090 Francophone Texts and Contexts (3) May be taken for a max. of 6 sem. hrs. of credit when subject matter varies. Taught in French and English. Focus on specific aspects of Francophone literature, culture, history, and thought.

3260 Structure of Louisiana French (3) F,S Prereq.: *FREN 2102 or 2202 or equivalent fluency in French.* Descriptive study of the structure and lexicon of Louisiana French dialects, with particular emphasis on the variety known as Cajun; emphasis on contrast with normed French, as well as comparison with other regional varieties.

3280 Cajun French Culture (3) F,S Prereq.: *FREN 2102 or equivalent.* Taught in French. Various aspects of Cajun French culture in Louisiana; emphasis on both traditional folk culture and contemporary issues.

3295 Special Topics in Louisiana French (3) F,S Prereq.: *FREN 2102 or 2202 or equivalent fluency in French.* May be taken for a max. of 6 sem. hrs. credit when topics vary.

3401 Tutoring Learners of French as a Second Language (1) Prereq.: *FREN 2155 or equivalent; EDCI 2001; concurrent enrollment in EDCI 3001. 3 hrs. lab/field experiences in multicultural settings.* A carefully monitored and evaluated French tutoring experience in a local middle or high school under the guidance of the course instructor and a mentoring teacher.

3402 Developing Language Lessons for French as a Second Language (1) Prereq.: *EDCI 3001, FREN 3401, and concurrent enrollment in EDCI 3002. 3 hrs. lab/field experiences in multicultural settings.* Under the supervision of a French faculty member and a teacher mentor, teacher candidates will prepare and deliver second language French language lessons that incorporate audio-visual materials and technology-enhanced language learning activities.

4000 Old French and Medieval Literature (3) V Prereq.: *FREN 3071 and 3072 or equivalents or permission of instructor.* Major aspects of the language and literature of the period.

4001 History of the French Language (3) V Development of French from its beginnings to the present; attention to formation of the modern language.

4003 Senior Seminar (3) Prereq.: *FREN 3060, 3071, and 3072 or equivalent and senior standing.* Required of French majors. Research project on a topic in French or Francophone literature, language, or civilization.

4004 Critical Methods and Theory (3) V Prereq.: *FREN 3060 or equivalent or permission of instructor.* Current and past modes of critical discourse and their application to literary texts.

4005 Advanced French Syntax and Stylistics (3) F,S Prereq.: *FREN 3060 or equivalent or permission of instructor.* Syntactical structure of French, with attention to stylistic improvement of written and oral expression.

4010 French Literature of the 16th Century (3) V Prereq.: *FREN 3071 and 3072 or equivalents or permission of instructor.* Major aspects of the literature of the period; topics will focus variously on an author, a theme, or a genre.

4014 Introduction to French Linguistics (3) F French phonology, morphology, and syntax.

4015 Advanced French Phonetics (3) S Theoretical principles of French phonetics and their application.

4016 Applied French Linguistics (3) Y Prereq.: *FREN 4014 or equivalent.* French linguistics as applied to second language learning/acquisition.

4020 French Literature of the 17th Century (3) V Prereq.: *FREN 3071 and 3072 or equivalents or permission of instructor.* Major aspects of the literature of the period.

4030 French Literature of the 18th Century (3) V Prereq.: *FREN 3071 and 3072 or equivalents or permission of*

instructor. Major literary, philosophic, and scientific currents of the period and their interrelations.

4031 The French Film (3) V Art of the French film from Louis Lumière to the present; its interrelations with French literature; screening and analyses of representative films.

4040 French Literature of the 19th Century (3) V Major aspects of the literature of the period.

4041 Translation Skills (3) O Prereq.: *FREN 3060 or equivalent or permission of instructor.* An analytic approach to the structures of English and French; strategies and techniques for their translation in literary, technical, and scientific contexts.

4050 French Literature of the 20th Century (3) V Major aspects of the literature.

4051 French for Business (3) V Language acquisition for students preparing for careers involving trade or business activities with French-speaking areas.

4060 French Literature of Quebec (3) V Major aspects of the literature of Quebec.

4064 Pidgin and Creole Languages (3) V See ANTH 4064 and LING 4064.

4065 Louisiana French (3) V Dialect areas of Louisiana, including Cajun and Creole speech communities; language contact, language variation, and problems of analysis.

4070 Literature of Africa and the Caribbean (3) Major aspects of francophone African and Caribbean literature.

4080 Special Topics in French/Francophone Cultures and Civilizations (3) V Taught in French. May be taken for a max. of 6 hrs. of credit when topics vary.

4081 French Literature in Translation (3) F,S Credit not applicable toward a major in French; knowledge of French not required. May be taken for a max. of 6 hrs. of credit when subject matter varies. Selected periods, topics, or movements.

4090 French and Francophone Women Writers (3) Prereq.: *3000-level French course or equivalent.* Women's writing in France and in Francophone countries from the middle ages to the present.

4095 Studies in Gender and French Literature (3) Prereq.: *3000-level French course or equivalent.* May be taken for a max. of 6 sem. hrs. of credit when topics vary. Examination of selected periods, themes, and genres.

4100 Special Topics in French Language and Literature (3) May be taken for a max. of 6 hrs. of credit when topics vary.

4403 Instructional Strategies for the Second Language French Classroom (1) Prereq.: *EDCI 3002, FREN 3402, and concurrent enrollment in EDCI 4003. 3 hrs. lab/field experiences in multicultural settings.* Teacher candidates will study and participate in activities that incorporate different classroom interactional structures, including teacher-to-whole class, task-based group activities, and student-to-student (pair work); candidates will design and conduct French language lessons using learner-centered activities.

4404 Critical Issues in Teaching French as Second Language: Capstone Course (3) Prereq.: *EDCI 4003, FREN 4403, and concurrent enrollment in EDCI 4004.*

Teacher candidates should be in their last two semesters of completion of the requirements for a major in French. Taught in French. Focus on the consolidation of knowledge about the French language, literature, and culture with respect to the teaching of subject content to middle or high school learners.

4410 Studies in Contemporary French Thought (3) V May be taken for a maximum of 6 hrs. of credit with consent of department, if content varies. Selected movements and thinkers of French thought after 1960.

4915 Independent Work (1-3) F,S,Su Prereq.: *FREN 3060 or equivalent or permission of instructor.* May be taken for a max. of 3 hrs. of credit. Readings in French literature directed by a senior faculty member.

7005 François Villon and His Age (2) V François Villon and other important figures of the Middle French period, notably Guillaume de Machaut, Eustache Deschamps, Christine de Pisan, Alain Chartier, and Charles d'Orléans.

7006 Studies in Medieval French Literature (3) V May be taken for a max. of 6 hrs. of credit with consent of department if content varies. Topics focus on an author, movement, or literary mode.

7012 Studies in 16th Century French Literature (3) V May be taken for a max. of 6 hrs. of credit with consent of department if content differs. Topics focus on an author, movement, or literary mode.

7013 Montaigne (3) V The Essais and their importance.

7021 French Classicism (3) V The classical mode in 17th century French literature; literary and artistic doctrine, major authors, and genres.

7022 Studies in 17th Century French Literature (3) V May be taken for a max. of 6 hrs. of credit with consent of department if content varies. Topics focus on an author, movement, or literary mode.

7031 Les Philosophes (3) V Aesthetic and language theory as developed in the Encyclopédie and in other major texts of the period.

7032 Studies in 18th Century French Literature (3) V May be taken for a max. of 6 hrs. of credit with consent of department, if content varies. Topics focus on an author, movement, or literary mode.

7041 French Romanticism (3) V Historical, epistemological, and semiotic aspects of French Romanticism.

7042 Studies in 19th Century French Literature (3) V May be taken for a max. of 6 hrs. of credit with consent of department, if content varies. Topics focus on an author, movement, or literary mode.

7051 The 20th Century Novel (3) V The works of such major novelists of the modern period as Gide, Proust, Malraux, Camus, Beckett, and Robbe-Grillet.

7052 Studies in 20th Century French Literature (3) V May be taken for a max. of 6 hrs. of credit with consent of department, if content varies. Topics focus on an author, movement, or literary mode.

7100 Studies in Sub Saharan Francophone Literature and Culture (3) May be taken for a max. of 6 sem. hrs. credit with consent of department, if content varies. The major movements and authors of francophone literature in the cultural context of Sub Saharan Africa.

7102 Studies in North African Francophone Literature and Culture (3) May be taken for a max. of 6 sem. hrs. credit with consent of department, if content varies. The major movements and authors of francophone literature in the cultural context of North Africa.

7120 Studies in Francophone Asian Literature and Culture (3) May be taken for a max. of 6 sem. hrs. credit with consent of department, if content varies. The major movements and authors of francophone literature in the context of Francophone Asia.

7140 Studies in Caribbean Francophone Literature and Culture (3) May be taken for a max. of 6 sem. hrs. credit with consent of department, if content varies. The major movements and authors of Francophone literature in the cultural context of the Caribbean.

7150 Studies in Literature and Culture of Francophone North America (3) V May be taken for a max. of 6 sem. hrs. of credit with consent of department, when subject matter varies. The major trends, as well as writers of Francophone literature and/or filmmakers within Francophone cinema in the cultural context of Francophone North America and Quebec.

7170 Studies in Belgian Francophone Literature and Culture (3) May be taken for a maximum of 6 hrs. credit with approval of the department, if content of the course varies. Topics focus on major literary authors, movements, genres, and/or forms of artistic expression such as the graphic novel, film, or the visual arts which illustrate the specificity of Belgian Francophone Literature and Culture.

7201 French Phonology and Morphology (3) V Sound structure, form, and function in French; principles and techniques of French phonological and morphological analysis.

7202 French Syntax and Semantics (3) V French transformational generative syntax; modern semantic theory, with emphasis on generative semantics and its relationship to the syntactic component.

7203 French Dialectology (3) V Principles and methods of a real linguistics and social dialectology in French-speaking areas.

7204 Field Methods in French Linguistics (3) V Methods of eliciting linguistic materials, processing and analyzing data, and writing linguistic descriptions; detailed study of dialects of Louisiana French.

7206 Louisiana French and Bilingualism (3) V *Some field work required.* Sociolinguistic, psychological, and linguistic aspects of bilingualism as they apply to Louisiana; analysis of language contact situations, language change and variation.

7300 Old Provençal (3) V Phonology and morphology of Old Provençal based on the study of literary texts.

7410 Studies in Contemporary French Theory (3) V May be taken for a max. of 6 sem. hrs. of credit with consent of department, when subject matter varies. Selected movements and thinkers of French theory after 1960.

7915 Independent Study (1-3) May be taken for a max. of 3 hrs. credit in a master's program and 9 hrs. credit in a doctoral program. Directed individual readings guided by the graduate faculty.

7917 Proseminar in French Studies (3) Intensive workshop course covering research methods, professionalization training and issues, and contemporary subjects of research.

7960 Special Topics in French Literature (3) V May be taken for a max. of 6 hrs. of credit for the master's degree and 9 hrs. of credit for the doctorate when topics vary. Topics to be announced.

7962 Special Topics in French Linguistics (3) V May be taken for 6 hrs. of credit for the master's degree and 9 hrs.

of credit for the doctorate when topics vary. Topics to be announced.

7970 Seminar in French Literature (3) Y May be taken for a max. of 6 hrs. of credit when topics vary. Topics to be announced.

7980 Seminar in French Linguistics (3) Y May be taken for a max. of 6 hrs. of credit when topics vary. Topics to be announced.

7990 Topics in Gender Representations in French Literature (3) With consent of department, may be taken for a max. of 6 sem. hrs. of credit when topics vary. Dynamics of exchange, influence, and collaboration between male and female writers.

7995 French Feminist Theories (3) Current and past modes of feminist theoretical discourse; implications for literary studies.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

GEOGRAPHY • GEOG

General education courses are marked with stars (★).

CORE CURRICULUM
(Required of majors.)

★ **1001 Human Geography: Americas and Europe (3)** 1001 and 1003 need not be taken in numerical order. Principal themes of human geography, including the spatial distributions and interactions of culture, history, economy, population, and environment, with a regional emphasis on the Americas and Europe.

★ **1003 Human Geography: Africa and Asia (3)** 1001 and 1003 need not be taken in numerical order. Principal themes of human geography, including the spatial distributions and interactions of culture, history, economy, population, and environment, with a regional emphasis on Africa and Asia.

2000 Hazards, Disasters, and the Environment (3) See DSM 2000.

★ **2050 Physical Geography: The Atmosphere (3)** Credit will not be given for both this course and GEOG 2061. May be taken for elective geology credit. Physical principles, processes, and operations in the atmosphere; world climatic realms.

★ **2051 Physical Geography: Land and Water Surfaces, Plant and Animal Realms (3)** Credit will not be given for both this course and GEOG 2061. Surface elements of the earth's environment; relationships among these elements.

2055 Map Reading (3) 2 hrs. lecture; 2 hrs. lab. Nature and interpretation of topographic maps.

MAPPING SCIENCES
(All majors select three courses.)

Cartography

2039 Cartographic Drafting and Graphic Presentation (3) 2 hrs. lecture; 2 hrs. lab. Basic drafting instruments and techniques necessary for preparation of maps and scientific graphics.

4040 Advanced Cartography (3) Prereq.: GEOG 2039 or equivalent. Cartographic history; map projection; advanced techniques of data presentation and cartographic production.

4044 Computer Cartography (3) No programming knowledge necessary. Introduction to selected mapping packages.

4049 Advanced Computer Cartography (3) Prereq.: CSC 1250 or 1253 and GEOG 4044. Use of computer mapping programs; theory and methods of display of point, line, and area elements in thematic maps; algorithms involved in encoding, editing, storing, retrieving, and displaying data from a digital cartographic data base.

Remote Sensing

4019 Aerial Photo Interpretation of Cultural Features (3) 2 hrs. lecture; 2 hrs. lab. Credit will not be given for both this course and GEOG 4020. Analysis of land use/land cover, urban, industrial, and military aspects from aerial photographs.

4020 Aerial Photo Interpretation (3) Prereq.: GEOL 1001 and 1003 or GEOG 2051. Credit will not be given for both this course and GEOG 4019. 2 hrs. lecture; 2 hrs. lab. Analysis and mapping of geologic structure, lithology, and landforms from aerial photographs.

4045 Environmental Remote Sensing (3) Prereq.: consent of instructor. May be taken for elective geology credit. 2 hrs. lecture; 2 hrs. lab. Basic energy and matter relationships; principles of primary remote sensors; environment studied

via remote sensing techniques.

GIS/Techniques

4041 Field Methods in Geography (3) 1 hr. lecture; 4 hrs. lab. Cannot be repeated for credit. Students must have Saturdays free. Fall semester emphasis on interpretation of the cultural landscape; spring semester emphasis on the physical landscape.

4042 Enterprise Geographic Information Systems (3) The use of vector-based GIS application software for the input, management, analysis, and presentation of geospatial data. Emphasis is placed on how the GIS relates to database management systems as part of building an enterprise-wide GIS.

4046 Webmapping (3) The creation of Web sites for the presentation of geospatial data via the World Wide Web. Emphasis is placed on how the technologies of Internet Web servers, GIS application software, and database management systems form a symbiotic relationship to make such Web sites possible.

4047 Geographic Information Systems (3) Prereq.: CSC 1250 or 1253 or equivalent. Geographic information systems used in land resource management and planning; data structures and algorithms for automated retrieval and analysis of spatial data; structuring cartographic data into spatial data; integration of remotely sensed data into geographic information systems.

4048 Methods of Spatial Analysis (3) Prereq.: EXST 4001 or equivalent. Mathematical, statistical, and spatial analytical methods for handling and interpreting data related to geography.

HUMAN GEOGRAPHY

(BA candidates select two systematic and one regional course.)

Systematic

2010 Human Geography (3) Survey of patterns and processes of world's cultures and landscapes.

2080 Humans and the Environment (3) Exploration of geographic concepts that underlie nature-society relationships and human-dimensions of environmental change.

4012 Elements of Cultural Geography (3) Culturally oriented proseminar in American geographical thought during the present century.

4060 Political Geography (3) Systematic, cultural-political geography; emphasis on technical and philosophical aspects and on American political landscapes; territorial political entities (cadastral, civil, national, imperial); role of the lands and seas, nature and objects of war; impacts of political entities on the landscape.

4072 Urban Historical Geography (3) Spatial evolution of cities and city-systems in western civilization through the classical, medieval, mercantile, and industrial periods to 1945.

4073 Urban Geography (3) Internal arrangement, external relations, and locational aspects of urban places, with emphasis on U.S.; urban places identified by presence of tertiary economic activities.

4074 Place and Culture (3) See ANTH 4074.

4077 Economic Geography (3) Location, characteristics, and relationships of primary, secondary, and tertiary economic activity; measurements and theories of location of economic endeavor.

4078 Environment and Development (3) Geographic theories and methods for analyzing relationship between environment and development.

4079 Geography of Religion (3) Also offered as REL 4079. Theory and methods of analyzing the culture and movement of religious rituals and traditions over space and time.

4080 Historical Geography (3) Advanced concepts and principles of historical geography.

4086 Human-Environment Interactions (3) Also offered as ANTH 4086. Cultural adaptation to difficult and distinctive environments, including mountains and highlands, the arctic, deserts, the humid tropics, and grasslands; subsistence strategies, local knowledge, household economies, land use practices, and resource management institutions.

4087 Gender, Place, and Culture (3) Also offered as ANTH 4087 and WGS 4087. The geographies of everyday life showing how notions of maleness and femaleness influence how we understand and relate to the world around us, from our built environment, to the places we invest with meaning, and the very ways we live, work, travel, and explore.

Regional

3001 Geography of Louisiana (3) Development and current distribution of physical and human geography of Louisiana.

4000 Modern India: Society and Culture (3) See SW 4000.

4002 South Asian Society, Polity, and Culture (3) See INTL 4002.

4031 Latin America and the Caribbean (3) Physical and cultural geography of Latin America and the Caribbean.

4033 Geography of Central Asia and Afghanistan (3) Also offered as INTL 4033. Survey of the geography of Central Asia and Afghanistan; emphasis on geographic elements of the history, ecology, environment, economy, and strategic importance of the region.

4035 Geographical Survey of East Asia (3) General survey of the physical and cultural geography of the region; focus on economic development and international relations.

4037 Geography of China (3) Geographic survey of natural environment, population and economy of China and its relationships to the rest of the world.

4050 Historical Geography of the South (3) Physical and cultural geography of the southern U.S.; emphasis on geographical elements identified with the south and their historical development; environment, exploration, population, agriculture, and cultural landscape.

4051 North Africa and the Middle East (3) Also offered as INTL 4051. Survey of the geography of North Africa and the Middle East; emphasis on the geographic elements of the history, ecology, economy, and politics of the region.

4052 Geography of the United States and Canada (3) Physical and cultural geography of the United States and Canada.

4055 Geography of Europe (3) Geographical survey of the natural, cultural, and economic resources of Europe and their relationships to the rest of the world.

PHYSICAL GEOGRAPHY

(BS candidates select any three courses.)

Climatology

4013 Meteorology (3) Prereq.: GEOG 2050 or equivalent. May be taken for elective geology credit. Temporal and areal variations in composition and structure of the atmosphere; meteorological instruments and measurements.

4014 Climatology (3) Prereq.: GEOG 2050 or equivalent. Climatic phenomena; methods in development of regional climatology.

4015 Physical Climatology (3) Prereq.: GEOG 4013 or 4014 or equivalent and MATH 1552 or equivalent. May be taken for elective geology credit. Exchanges of radiation, energy, matter and momentum between the earth's surface and the atmosphere that produce characteristic environmental conditions near the ground important to both rural and urban land uses.

4016 Methods of Climatological Analysis (3) Prereq.: GEOG 4013 or GEOG 4014 or equivalent. Analysis and interpretation of climatological data and application to physical and human problems.

4017 World Climates (3) Prereq.: GEOG 2050 or equivalent. Analysis of atmospheric circulation processes that produce differences in climates throughout the world; the earth's problem climates and climatically sensitive zones most susceptible to floods, droughts, and other environmental stresses.

4018 Geographical Hydrology (3) Prereq.: MATH 1021 or equivalent. 2 hrs. lecture; 2 hrs. lab. Analysis of basic hydrologic processes with geographical perspective; variability of runoff and groundwater; floods and droughts; climatic and land use impacts on local and global water resources.

4221 The Tropical Atmosphere (3) Prereq.: GEOG 4013 or 4014. Comparative analysis of the tropical and mid-latitude atmospheric circulation systems, including monsoon systems, tropical cyclones, and easterly waves; elements of interannual tropical variability such as El Niño-Southern Oscillation.

Geomorphology and Coastal

4021 Alluvial Morphology (3) Prereq.: GEOL 1001, 1003. May be taken for elective geology credit. Processes that originate and change land and hydrographic forms of alluvial surfaces; emphasis on Louisiana.

4022 Geomorphology (3) Prereq.: GEOL 1001, 1003. May be taken for elective geology credit. Basic principles underlying the study of land forms; emphasis on processes shaping the natural landscape.

4024 Coastal Morphodynamics (3) Prereq.: MATH 1021, 1022, or 1023. See OCS 4024.

4029 Coastal Resources and Management (3) Introduction to coastal environments and contemporary global coastal and estuarine management.

Biogeography and Environment

2000 Hazards Disasters and the Environment (3) See DSM 2000.

4070 Environmental Conservation (3) Factors governing human use of the earth and its resources.

4082 Biogeography (3) Different approaches to description and interpretation of plant and soil distribution patterns.

4083 Quaternary Paleocology (3) Prereq.: GEOG 4082 and a basic course in historical geology, or equivalent. 2 hrs. lecture; 4 hrs. lab. Also offered as ANTH 4083. Theory and method of reconstructing climatic, biological, geological, and human history during the Pleistocene and Holocene periods.

4085 Tropical and Subtropical Biogeography (3) Prereq.: GEOG 4082 or equivalent. Includes field trip during spring vacation. Principles of tropical ecology and biogeography taught as preparation for an expedition to tropical America where field methods will be illustrated and ecological diversity studied.

OTHER COURSES

2061 Physical Geography (3) Either GEOG 2050 or 2051 may be substituted for this course. Credit will not be given for both this course and GEOG 2050 or 2051. Analysis of landforms, hydrology, climate, vegetation, and soil; emphasis on world regional patterns.

4023 Coastal and Shallow-Marine Depositional Systems (3) See GEOL 4023. May be taken for elective geology credit.

4090 The History of Geography (3) 3 hrs. lecture and proseminar discussion. Development of geography since ancient times; emphasis on the 19th and 20th centuries.

4164 Deltaic Geology (3) See GEOL 4164.

4997 Special Topics in Geography (3) Permission of instructor. May be taken for a max. of 6 sem. hrs. of credit when topics vary.

4998 Independent Reading and Research in Geography (1-6) Permission of instructor. May be repeated for credit. An honors course, GEOG 4999, is also available. Supervised reading or research on topics selected by qualified advanced students.

4999 HONORS: Independent Reading and Research in Geography (1-6) Permission of instructor. Same as GEOG 4998, with special honors emphasis for qualified students.

7074 Poetics of Place (3) Same as ANTH 7074.

7901 Introduction to Graduate Study (1) Same as ANTH 7901. Techniques and methods of their profession for incoming graduate students.

7902 Introduction to Research Methods in Geography (3)

7906 Settlement Geography: Exploration (3) May be taken for a max. of 9 hrs. of credit with consent of department.

7910 Form-Process Relationships in Coastal Environments (3) V

7911 Selected Topics in Geography (3) Permission of instructor. May be taken for a max. of 9 hrs. when topics vary.

7917 Advanced Physical Geography (3) May be taken for a max. of 9 hrs. of credit with consent of department.

7921, 7922, 7923 Research and Field Work in Geography (3-6 each) Permission of instructor. Each course may be repeated for credit.

7926 Advanced Geomorphology (3) May be taken for a max. of 9 hrs. of credit with consent of department.

7935 Quantitative Methods for Geographical Analysis (3) Prereq.: EXST 7003 or equivalent. Spatial analytical methods for handling and interpreting data related to geography.

7937 Geographical Literature (3)

7938 Culture History (3) May be taken for a max. of 9 hrs. of credit with consent of department.

7942 Coastal Climatology (3) Prereq.: GEOG 4028 and a basic course in either meteorology or climatology, or consent of instructor. Meteorologic and climatologic phenomena occurring in coastal areas.

7946 Coastal and Estuarine Resources (3) Prereq.: GEOG 4028 and 4029; or equivalent. Nature of coastal and estuarine resources and their perception, evaluation, and exploitation.

7950 Problems in the Geography of Latin America (3) Prereq.: reading knowledge of Spanish or Portuguese.

Problems in the cultural and economic geography of Latin America.

7960 Hydroclimatology (3) Prereq.: GEOG 4014 or 4015 or equivalent. 1 hr. lecture; 4 hrs. lab. Field measurements and laboratory analyses of radiation and water budgets in rural and urban environments; emphasis on evapotranspiration rates and climatic consequences.

7973 Advanced Geographic Information Systems (3) Prereq.: GEOG 4047 or equivalent. Theory and methods of design, development, implementation, and applications of geographic information systems.

7975 Advanced Remote Sensing Seminar (3) V Prereq.: GEOG 4045 or equivalent. May be taken for a max. of 9 sem. hrs. of credit when topics vary. Selected topics in remote

sensing.

8000 Thesis Research (1-12 per sem.) Permission of instructor. "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) Permission of instructor. "S"/"U" grading.

GEOLOGY • GEOL

General education courses are marked with stars (★).

★ **1001 General Geology: Physical (3)** An honors course, GEOL 1002, is also available. Credit will not be given for both this course and GEOL 1002 or 1111. Earth materials and land forms; processes at work on and within the earth.

★ **1002 HONORS: General Geology: Physical (3)** Same as GEOL 1001, with special honors emphasis for qualified students. Credit will not be given for both this course and GEOL 1001 or 1111.

★ **1003 General Geology: Historical (3)** Prereq.: GEOL 1001. An honors course, GEOL 1004, is also available. History of the earth and life on it, as deciphered from study of its rocks and fossils.

★ **1004 HONORS: General Geology: Historical (3)** Same as GEOL 1003, with special honors emphasis for qualified students.

★ **1066 Dinosaurs, Catastrophes, and Extinctions (3)** Not for major credit for geology majors. History of dinosaur discoveries and methods of study; dinosaurs' relationship to birds and mammals; place of dinosaurs in earth's geological history; emphasis on catastrophes and patterns of extinction.

1111 Geology of National Park Areas (3) Credit will not be given for this course and either GEOL 1001 or GEOL 1002. Geological study of areas supervised by the National Park Service. Areas covered will include most of the National Parks and Monuments, and many other federally owned lands.

★ **1601 Physical Geology Laboratory (1)** Prereq.: credit or concurrent enrollment in GEOL 1001. Lab related to GEOL 1001. Properties of minerals and rocks; practical application of geological principles, using topographic and geological maps; geological factors relating to energy exploration and environmental problems, with emphasis on south Louisiana.

★ **1602 Historical Geology Laboratory (1)** Prereq.: GEOL 1601; credit or concurrent enrollment in GEOL 1003. Lab related to GEOL 1003. Sedimentary rocks and environments, geobiological sequences, fossils, and the historical geological record as interpreted from maps.

2020 Geology and the Environment (3) S Prereq.: GEOL 1001. Interaction between human activities and geological processes, hazards, and materials; emphasis on environmental geology of Louisiana and the Gulf Coast region.

2061 History of the Biosphere (3) Prereq.: GEOL 1003, 1602; BIOL 1201. 2 hrs. lecture; 3 hrs. lab. One or two field trips required. Characteristics and geologic history of selected taxa with significant fossil records; use of paleontologic data (paleobiologic, paleoenvironmental, geochemical, and biostratigraphic) in geology and evolutionary studies; influence of the biosphere on Earth over geologic time.

2081 Mineralogy (3) Prereq.: CHEM 1201, 1202, and 1212; 2 hrs. lecture; 3 hrs. lab. Elementary crystallography; general chemical and physical properties of minerals.

3032 Introduction to Sedimentology and Depositional Environments (3) Prereq.: GEOL 1001, 1003, 1601, or equivalent; GEOL 2081; or consent of instructor. 2 hrs. lecture; 2 hrs. lab. One field trip and one field exercise in nearby area. Sediment types, textures, sedimentary structures, and major minerals used to understand sedimentary processes leading to different depositional environments.

3041 Igneous and Metamorphic Petrology (3) Prereq.: GEOL 2081. 2 hrs. lecture; 3 hrs. lab. Composition, textures, structures, distribution, and origin of igneous and metamorphic rocks.

3071 Structural Geology (3) Prereq.: GEOL 1003, 1602; credit in MATH 1550. 2 hrs. lecture; 3 hrs. lab. Geometric, kinematic, and dynamic analysis of geologic structures and structural systems resulting from deformation; introduction to tectonics; introduction to field techniques and geologic maps; generation of geologic maps and cross-sections.

3666 Field Geology (6) Su only Prereq.: GEOL 3032, 3041, and 3071; or equivalent. Students planning to take this course should apply to the camp director no later than March 15. Camp fee. Six weeks of field-based projects in the Rocky Mountains of Colorado, New Mexico, and Wyoming; fundamentals of the study of rocks and geologic features in their natural settings.

3909 Geological Research (1-3) F,S,Su May be taken for a max. of 9 sem. hrs. of credit when topics vary. Primarily for geology majors. Directed reading, conference, and field/laboratory investigations of geological problems.

4002 Special Topics in Geology and Geophysics (3) V Prereq.: senior standing in geology or consent of instructor.

May be taken for a max. of 9 sem. hrs. of credit when topics vary. Advanced and/or emerging topics in the geosciences.

4012 Introduction to Micropaleontology (3) F Prereq.: GEOL 2061 or equivalent. 2 hrs. lecture; 3 hrs. lab. Morphology, classification, stratigraphy, paleoecology, and evolutionary patterns of common marine microfossils.

4019 Geoarchaeology (4) Prereq.: GEOL 1001 or ANTH 2015 or GEOG 2051 or permission of instructor. 3 hrs. lecture plus equivalent of 3 hrs of lab per week devoted to an applied fieldwork problem. Geological, stratigraphical, geochemical, and geophysical techniques employed in the study of archaeological sites and materials.

4023 Coastal and Shallow-Marine Depositional Systems (3) Also offered as GEOG 4023. Dynamics of sediment transport in coastal zones and on continental shelves; sea-level changes; morphological, sedimentary, and stratigraphic attributes of coastal and shallow-marine lithosomes.

4035 Advanced Sedimentology (3) Prereq.: GEOL 3032. Field trip required. Physical sedimentary processes in nonmarine and marine depositional systems, including fluvial, alluvial fan, lacustrine, eolian, and carbonate and clastic marine environments; influence of tectonics, climate, and sea level on sedimentary architecture and sequences.

4043 Earth Materials and the Environment (3) Prereq.: CHEM 1202, GEOL 1001, 2081 or permission of instructor. Earth materials as problems and solutions in environmental issues; physicochemical behavior of asbestiform silicates, silica, zeolites, and associated health hazards; potential geological repositories for hazardous waste.

4044 Petroleum Geology (3) Prereq.: GEOL 2061, 3071, and MATH 1550. Modern concepts of the origin, migration, entrapment and production of hydrocarbons from sedimentary basins.

4045 Stratigraphy (3) Prereq.: GEOL 3032 or permission of instructor. The succession and age relationships of rock strata including their form, lithologic components, fossil content, geophysical and geochemical properties and their interpretation in terms of environment, mode of origin, and geologic history.

4062 Exploration and Environmental Geophysics (3) Prereq.: GEOL 3071 and MATH 1552 or permission of instructor. 2 hrs. lecture; 3 hrs. lab. Principles and methods of acquisition, processing, and interpretation of geophysical data used to investigate the shallow subsurface; seismic refraction, seismic reflection, gravity, magnetics, electrical resistivity, well logs, and ground penetrating radar.

4064 Solid Earth Geophysics (3) Prereq.: GEOL 3071 and MATH 1552. Concepts and methods used to study the structure and dynamics of the earth; rotation, gravity, seismology, heat flow, geomagnetism, paleomagnetism, radioactivity, and deformation.

4066 Plate Tectonics (3) Prereq.: GEOL 3071. Contemporary concepts of plate tectonics; geophysical observations and geological implications.

4068 Reflection Seismology (3) Prereq.: PHYS 1201 or 2101, MATH 1550, or consent of instructor. 2 hrs. lecture; 3 hrs. lab. Seismic reflection techniques used to investigate shallow earth structure; waves in layered media, correlation, convolution, deconvolution, and spectral analysis; interpretation of seismic record sections.

4071 Advanced Structural Geology (3) Prereq.: minimum of 20 hrs. in geology courses, including GEOL 3071. 2 hrs. lecture, 3 hrs. lab. Structural geology of the U.S.; its application to problems of folding, faulting, rock mechanics, and plate interactions.

4081 Chemical Oceanography (3) Prereq.: consent of instructor. 3 hrs. lecture/seminar. Also offered as OCS 4126. Controls on the mass balance and distribution of major elements, trace elements, heavy metals, dissolved gases, and nutrients in estuarine and open-ocean systems.

4083 Introduction to Isotope Geology (3) Prereq.: GEOL 2081 and MATH 1550; or equivalent. Principles of nuclear chemistry, radioactive decay, and isotopic fractionation processes; radiometric dating techniques and stable isotopic studies.

4084 Geomicrobiology (3) Prereq.: GEOL 3032 or BIOL 2051 or consent of instructor. Also offered as BIOL 4084. Microbial effects and controls on geologic, geochemical, and ecological processes; biochemical tracers and fossils of microbially mediated processes through time; introduction to biogeochemical processes.

4085 Geochemistry of Sediments and Natural Waters (3) F Prereq.: GEOL 2081 and MATH 1550. Controls on the composition of natural waters and the role of fluid-rock interactions in the geochemical evolution of sedimentary rocks, the ocean, and the atmosphere; major geochemical cycles.

4111 Vertebrate Paleontology (3) Prereq.: consent of instructor. 2 hrs. lecture; 2 hrs. lab. Phylogenetic survey of fossil vertebrates; their origins and transitions; vertebrate

taphonomy, biostratigraphy, and fossil collection and preparation.

4131 Basin Analysis (3) Prereq.: GEOL 3032. Basic environment of sediment deposition; sedimentological models and their relationships within depositional basins; analysis of theoretical basin models and comparison with modern and ancient sedimentary basins.

4164 Deltaic Geology (3) Prereq.: consent of instructor. 2 hrs. lecture; 2 hrs. lab. Also offered as GEOG 4164. Processes of deltaic sedimentation and the nature of deltaic sediments; Mississippi River delta compared to other modern and ancient deltas.

4165 Subsurface Geology (3) Prereq.: GEOL 1001, 1003, 1601, 1602; PETE 4088 strongly recommended. 2 hrs. lecture; 3 hrs. lab. Principles and methods of exploration, analysis, and interpretation using borehole data, electric logs, and samples of rocks and fluids; construction of geological maps and sections showing sediment facies, geological structure, geotemperature, fluid pressure and water salinity; analysis of fluid migration, oil and gas accumulation, and geothermal resources.

4182 Physical Hydrogeology (3) S Prereq.: GEOL 3032 and MATH 1552 or permission of instructor. Subsurface fluid flow in geological materials; emphasis on geological controls of the origin and migration of pore water, including saline brines, in sedimentary basins; topics including crustal scale flow, petroleum migration, ore formation, and subsurface flow regimes in Louisiana.

4666 Coastal Field Geology (4) Su only Prereq.: consent of instructor. Also offered as OCS 4666. Camp fee. Four-week field course on the Louisiana coast utilizing facilities operated by Louisiana Universities Marine Consortium. Sedimentary environments, coastal processes, and environmental geological problems of the Mississippi delta plain.

6001 Topics in Earth Sciences for Teachers (3) Su May be taken for a max. of 9 sem. hrs. when topics vary. Consent of instructor is required for the second and third times. Various aspects of the earth sciences for elementary, middle, and high school teachers of science.

7031 Deep-water Depositional Environments (3) Prereq.: introductory course in sedimentology, e.g., GEOL 3032. Different types of sediment in deep water and on various transport processes; emphasis on submarine fan systems, their lithologic and seismic response; geological factors responsible for variation in end products.

7032 Fluvial Processes and Systems (3) Prereq.: consent of instructor. Fluid flow, sediment transport, and fluvial depositional processes; river systems as conveyor belts for sediment delivery to sedimentary basins; fluvial sediments in the stratigraphic record.

7043 Advanced Igneous Petrology (3) Prereq.: GEOL 3041 or equivalent. 2 hrs. lecture; 3 hrs. lab. Phase diagrams, magmatic origin of igneous rocks, and evolution of igneous provinces.

7044 Advanced Metamorphic Petrology (3) Prereq.: GEOL 3041 or equivalent. 2 hrs. lecture; 3 hrs. lab. Facies concept, theoretical and field relations, textures, and their significance.

7061 Sequence Stratigraphy (3) Prereq.: introductory course in sedimentology, GEOL 3032 or equivalent. One week field trip to the southern Rocky Mountains is required. Principles of physical stratigraphy with emphasis on contemporary concepts about the interaction of tectonics, sea level, and sediment supply in generating a predictable architecture of sedimentary basin fills.

7062 Seismic Stratigraphy (3) Prereq.: GEOL 3071 or equivalent. Interpretation of seismic reflection data in terms of sedimentary facies, stratigraphic sequences, and implications for local and eustatic sea-level fluctuations.

7064 Numerical Methods in the Geological Sciences (3) Prereq.: CSC 2262, MATH 1552, and GEOL 4064; or equivalent. Numerical methods applied to geological research; interpolation and extrapolation, nonlinear equations, solutions of simultaneous linear equations, least squares approximations, numerical integration, numerical solution of differential equations, and Fourier transforms.

7065 Geodynamics (3) Prereq.: MATH 2057 and 2090 or equivalent; and GEOL 4064 or equivalent. Fundamental physical processes involved in plate tectonics and other geological phenomena; concepts in mantle convection, rock rheology, faulting, flexure, and heat transfer.

7081 Isotope Geochemistry (3) Prereq.: consent of instructor. 2 hrs. lecture; 2 hrs. lab/demonstration. Stable isotope fractionation in natural systems; emphasis on oxygen, hydrogen, and carbon isotope-ratio variation in natural waters, carbonates, and silicates with application to the solution of petrologic problems.

7083 Mass Spectrometry for Isotope Geology (3) Prereq.: GEOL 4083 or consent of instructor. 2 hrs. lecture; 3 hrs. lab. Principles of thermal ionization mass spectrometry; chemical preparation of geological samples for isotope ratio measurements; use of multicollector solid source mass

spectrometer; applications to geological studies.

7085 Paleocyanography (3) Prereq.: GEOL 4081 or consent of instructor. Physical conditions, circulation, bio-ecology, and chemistry of oceans in the past as inferred from sediment records; ocean's role in the climate system and its response to climatic and tectonic changes.

7111 Advanced Micropaleontology (3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit. Advanced training in micropaleontology.

7115 Paleocology (3) Prereq.: GEOL 2061 and 3032. 2 hrs. lecture; 2 hrs. lab field trip. Diversity, structure, taphonomy, and evolution of fossil and modern marine assemblages; adaptations and functional morphology; organism-sediment relationships.

7117 Biostratigraphy (3) Prereq.: GEOL 2061 or equivalent. 2 hrs. lecture; 2 hrs. lab. Stratigraphic concepts; modern rules and procedures in interval and assemblage zonations; distribution of stratigraphically important fossil groups; event stratigraphy and chronostratigraphic modeling using computer techniques; applications to global and regional problems.

7120 Paleobiology (3) Prereq.: GEOL 3071 or equivalent. Patterns and processes of evolution as discerned from the fossil record; tempo and mode of evolution, hierarchy and macroevolution, mass extinctions, patterns of diversification; emphasis on development of theories and case studies.

7131 Petrology of Sandstones (3) 2 hrs. lecture; 3 hrs. lab. Petrology and petrography of terrigenous sandstones; applications of sediment mineralogy and texture to the analysis of provenance, deposition, and diagenesis; emphasis on the interrelationship of tectonics and sedimentation.

7132 Dynamics of Sedimentation (3) 2 hrs. lecture; 3 hrs. lab. Fluid mechanics as applied to sedimentation, fluid-particle interactions, erosion, mechanics of sediment transport including fluid and sediment flows, deposition and the origin of primary structures, and hydrodynamic instability and soft-sediment deformation.

7133 Sedimentary Petrography of Carbonates (3) 2 hrs. lecture; 3 hrs. lab. Principles governing formation, deposition, and diagenesis of carbonate sediments and sedimentary rocks; lab stresses textural, fabric, and mineral relationship and interpretation of depositional environments and mineral paragenesis of ancient carbonate sequences.

7134 Clay Mineralogy (3) 2 hrs. lecture; 3 hrs. lab/discussion. Mineralogy; geochemistry, and geology of clay minerals; argillaceous sediments and rocks.

7183 Physical Geochemistry of Burial Diagenesis (3) Prereq.: GEOL 4085 or equivalent. Quantitative techniques in thermodynamics, kinetics, and mass transport applied to problems of burial diagenesis of sedimentary minerals and fluids.

7195 Reservoir Characterization (3) Prereq.: GEOL 4182 or PETE 4051 or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Also offered as PETE 7195. Origin, description, exploration, and development of oil and gas reservoirs; topics include accommodation space, reservoir occurrence, origin of petroleum, oil and gas properties, rock properties, drilling, exploration, and appraisal, reservoir flow modeling and production engineering; emphasis on integration of geology, geophysics, and petroleum engineering.

7200 Scientific Communication and Visualization (3) Methods for written, oral, and visual communication with an emphasis on scientific approaches, analysis and presentation of scientific quantitative information.

7900 Special Topics in Geology and Geophysics (3) V May be taken for a max. of 12 sem. hrs. of credit when topics vary. Advanced and/or emerging topics in geology and geophysics.

7909 Directed Research in Geology and Geophysics (1-6) May be taken for a max. of 10 sem. hrs. of credit when topics vary. General student-selected research topics and focused group research, including all topics in geology and geophysics.

7911 Seminar in Geology: Paleontology (2) May be repeated for credit.

7931 Seminar in Geology: Sedimentology (2) May be repeated for credit. Fall semester: carbonate sedimentology; spring semester: clastic sedimentology and sedimentary environments.

7941 Seminar in Geology: Igneous and Metamorphic Petrology (2) May be repeated for credit.

7961 Seminar in Geology: Structural Geology (2) May be repeated for credit.

7966 Field Work (1-9)

7971 Seminar in Tectonics (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary. Plate tectonics, diapirism, isostasy, and the tectonics of specific areas.

7972 Seminar in Geophysics (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary. Structure and composition of the mantle; physical processes at ridges, trenches, and transform faults; dynamics of plate interiors; intraplate stress; and thermal histories of the earth and other terrestrial planets; physics of rock magnetism; and

hydrodynamics of sedimentary basins.

7981 Seminar in Geochemistry (2) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit. Mineralogy, paragenesis, geochemistry, and natural occurrence of authigenic silica in sediments; other topics such as hydro geochemistry, isotope geochemistry, and the geochemistry of carbonates.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

GERMAN • GERM

Native speakers of German will not receive credit for courses marked with an asterisk (*).

General education courses are marked with stars (★).

***1101 Elementary German (4)** Basic lexicon and structures of German; emphasis on communicative language use; supplementary work in language and computer laboratories.

★ ***1102 Elementary German (4)** Prereq.: GERM 1101 or equivalent. Continuation of GERM 1101. Basic lexicon and structures of German; emphasis on communicative language use. Supplementary work in language and computer laboratories.

2001 German for Travelers (3) German for travelers is not applicable towards a major or minor in German and does not fulfill foreign language requirements for undergraduates. The course introduces basic communication patterns, focuses on practical everyday vocabulary through exercises, role-playing, and situational activities.

★ **2075 German Civilization (3)** Knowledge of German not required. Also offered as HIST 2075. Development of the modern German states from early Germanic times; art, literature, music, and philosophy in an historical context.

2090 Germanic Mythology (3) Knowledge of German not required. Germanic myths and legends; their major manifestations in religion, literature, art, and music.

★ ***2101 Intermediate German (3)** Prereq.: GERM 1102 or equivalent. Reading, conversation, composition; review of lexicon and structure; supplementary work in language and computer laboratories.

★ ***2102 Intermediate German (3)** Prereq.: GERM 2101 or equivalent. Continuation of GERM 2101. Reading, conversation, composition; emphasis on lexicon of spoken German; supplementary work in language and computer laboratories.

★ ***2155 Readings in German Literature (3)** Prereq.: GERM 2102 or equivalent. Analysis of literary texts; expansion of lexicon, comprehension, and composition skills.

3060 German for Business (3) Prereq.: GERM 2102 or equivalent. Introduction to German in a business environment: focus on linguistic structures and vocabulary, forms of business communication, reading of business text, and social customs.

3061 German Discourse (3) Prereq.: GERM 2102.

Intensive practice in listening comprehension, oral and written communication; special problems in German structure; thematic treatment of contemporary issues in German speaking countries.

3062 Advanced German Discourse (3) Prereq.: GERM 3061.

Continued intensive practice in listening comprehension, oral and written communication; special problems in German structure; thematic treatment of contemporary issues in German speaking countries.

★ **3081 Survey of German Literature and Culture: Beginning to 1700 (3)** Prereq.: GERM 2155 or equivalent. Readings from, and an historical overview of, the Middle Ages, the Renaissance, the Reformation, and the Baroque periods.

★ **3082 Survey of German Literature and Culture: 1700-1830 (3)** Prereq.: GERM 2155 or equivalent. Readings from, and an overview of, the Enlightenment, Sturm and Stress, Weimer Classicism, and Romanticism.

★ **3083 Survey of German Literature and Culture: 1830-1890 (3)** Prereq.: GERM 2155 or equivalent. Readings from, and a historical overview of, Biedermeier/Vormarz, Realism, and Naturalism.

★ **3084 Survey of German Literature and Culture: 1890 to the Present (3)** Prereq.: GERM 2155 or equivalent. Readings from, and a historical overview of, Expressionism, New Objectivity, the Group 47, GDR literature, and Post-Modernism.

3090 Friedrich Nietzsche (3) Knowledge of German not required. Also offered as PHIL 3090. Major works of Nietzsche studied in the context of the three periods of productivity and evolution of his thought.

3091 Special Topics in German Literature Translation (3) Knowledge of German not required. May

be taken for a max. of 6 hrs. of credit when topics vary.

4005 German for Reading Knowledge (5) S Specialized course intended to satisfy departmental foreign language reading requirement for graduate students. This course will not count toward a graduate degree. Undergraduates may enroll on a pass-fail basis only. Does not count toward satisfying foreign language requirements for undergraduates, although hours may count toward baccalaureate. Credit will not be given for both this course and introductory German courses.

4030 German Drama (3) Dramatic literature in German.

4031 German Poetry (3) Study of German poetic expression.

4032 German Prose (3) Emphasis on stylistic analyses and narrative theories.

4041 Special Topics in Older Germanic Literature and Culture (3) May be taken for a max. of 6 hrs. of credit when topics vary.

4042 Special Topics in 18th Century German Literature and Culture (3) May be taken for a max. of 6 hrs. of credit when topics vary.

4043 Special Topics in 19th Century German Literature and Culture (3) May be taken for a max. of 6 hrs. of credit when topics vary.

4044 Special Topics in 20th Century German Literature and Culture (3) May be taken for a max. of 6 hrs. of credit when topics vary.

4045 Special Topics in Contemporary German Literature and Culture (3) May be taken for a max. of 6 hrs. of credit when topics vary.

4046 German Film (3) Knowledge of German not required. German film in its socio-historic contexts with some attention to cinematic technique.

4062 Advanced German Discourse (3) Prereq.: GERM 3061 or equivalent. Continued intensive practice in complex grammar and structures. Analysis and synthesis of authentic German material with focus on reading and writing.

4091 Special Topics in German Literature and Culture in Translation (3) May be taken for a max. of 6 hrs. of credit when topics vary. Knowledge of German not required.

4915 Independent Work (1-3) May be taken for a max. of 3 sem. hrs. credit. Permission of department required.

GREEK • GREK

General education courses are marked with stars (★).

1001 Elementary Greek (4) Introduction to the core vocabulary and grammar for reading and writing Ancient Greek; basic readings in Classical and Biblical Greek.

1002 HONORS: Elementary Greek (4) Same as GREK 1001, with special honors emphasis for qualified students. Homeric dialect, grammar, and meter, while reading basic passages from Homer's *Iliad*.

★ **2051 Intermediate Greek (4)** Prereq.: GREK 1001 or equivalent. Completion of core vocabulary and grammar for reading and writing Ancient Greek; basic readings in Classical and Biblical Greek.

2052 HONORS: Intermediate Greek (4) Prereq.: GREK 1002. Same as GREK 2051, with special honors emphasis for qualified students. Continuation of Homeric dialect, grammar, and meter, while reading passages from Homer.

★ **2053 Homer (3)** Prereq.: GREK 2051 or equivalent. Readings from the *Iliad* or *Odyssey*; selected passages from various books; some attention to aesthetic and historical problems.

★ **2055 Greek Drama (3)** Readings in Greek drama including a representative play of Sophocles or Euripides.

★ **2056 New Testament (3)** Prereq.: GREK 2053 or equivalent. Selected readings from the New Testament.

★ **2065 Plato's Dialogues (3)** Prereq.: GREK 2053 or equivalent. Readings from Plato's dialogues.

★ **2066 Attic Oratory (3)** Prereq.: GREK 2053 or equivalent. Readings from Attic orators such as Demosthenes, Andocides, Antiphon, Lysias.

4023 Special Topics in Greek Poetry (3) May be taken for a max. of 6 hrs. of credit. Readings and studies in one or more of the following: Homer, Hesiod, Pindar, Greek lyric poetry, Aeschylus, Sophocles, Euripides, Aristophanes.

4024 Special Topics in Greek Prose (3) May be taken for a max. of 6 hrs. of credit. Readings and studies in one or more of the following: Herodotus, Thucydides, the Pre-Socratics, the orators, Plato, Aristotle.

4915 Independent Work (1-3) May be taken for a max. of 6 sem. hrs. of credit. Permission of department required. Readings in Greek literature directed by a senior faculty member.

7003 Seminar in Greek Literature (3) May be taken for a max. of 15 hrs. of credit as topics vary.

HEBREW • HEBR

General education courses are marked with stars (★).

1001 Beginning Hebrew (4) Also offered as REL 1001. This course counts toward the fulfillment of a foreign language requirement only when taken under the HEBR rubric. The alphabet, basic grammar, and vocabulary of classical Hebrew; simple prose passages from the Bible.

★ **1002 Beginning Hebrew (4)** Also offered as REL 1002. Prereq.: HEBR/REL 1001 or equivalent. This course will count toward the fulfillment of a foreign language requirement only when taken under the HEBR rubric. Basic grammar and vocabulary of classical Hebrew; simple prose readings from the Bible.

★ **2003 Intermediate Hebrew (4)** Also offered as REL 2003. Prereq.: HEBR/REL 1002 or equivalent. This course counts toward the fulfillment of a foreign language requirement only when taken under the HEBR rubric. Biblical narratives; details of syntax; development of vocabulary.

★ **2004 Intermediate Hebrew (4)** Also offered as REL 2004. Prereq.: HEBR/REL 2003 or equivalent. This course counts toward the fulfillment of a foreign language requirement only when taken under the HEBR rubric. Biblical narratives and poetry; details of syntax; development of vocabulary; textual criticism.

HISTORY • HIST

General education courses are marked with stars (★).

★ **1001 Western Civilization to 1500 (3)** An honors course, HIST 1002, is also available. Ideas, trends, and institutions in western civilization from earliest times to the Reformation.

★ **1002 HONORS: Western Civilization to 1500 (3)** Same as HIST 1001, with special honors emphasis for qualified students. Supervised reading, discussion, research, and writing.

★ **1003 Western Civilization Since 1500 (3)** An honors course, HIST 1004, is also available. Development of western civilization from the Reformation to the present.

★ **1004 HONORS: Western Civilization Since 1500 (3)** Same as HIST 1003, with special honors emphasis for qualified students. Supervised reading, discussion, research, and writing.

★ **1005 World History to 1500 (3)** Developments and interactions among Asian, African, European, American, and Oceanian cultures in the pre-modern age.

★ **1007 World History Since 1500 (3)** Interactions among Asian, Middle Eastern, African, European, and American cultures in the modern era.

★ **2001 The Ancient Near East and Greece (3)** Development of institutions and thought in the earliest civilized societies of the Ancient Mediterranean from the beginning of civilization to the end of the Hellenistic Age.

★ **2002 Rome: Republic and Empire (3)** Development of the Roman state, society, and thought from the prehistory of Italy to St. Augustine.

2011 England: Roman Times through 1688 (3)

★ **2012 Britain from 1689 to the Present (3)**

★ **2020 Medieval Europe (3)** Social, cultural, religious, and political history of medieval Europe from the reign of Constantine in the fourth century to the fall of Constantinople in 1453.

★ **2021 Modern Europe (3)** Political, economic, and social developments and diplomacy from the Renaissance to 1848.

★ **2022 Modern Europe (3)** Political, economic, and social developments and diplomacy from 1848 to the present.

2023 The World Since 1960 (3) Major events since 1960 in the U.S., U.S.S.R., and selected nations of Europe, the Middle East, Latin America, Africa, and Asia; emphasis on social, economic, political, and national security issues.

★ **2055 The United States to 1865 (3)** An honors course, HIST 2056, is also available.

★ **2056 HONORS: The United States (3)** Same as HIST 2055, with special honors emphasis for qualified students.

★ **2057 The United States from 1865 to the Present (3)** An honors course, HIST 2058, is also available.

★ **2058 HONORS: The United States (3)** Same as HIST 2057, with special honors emphasis for qualified students.

★ **2061 African American History (3)** Social, cultural, and economic role of African Americans in the U.S. from 1619 to the present.

★ **2075 German Civilization (3)** See GERM 2075.

★ **2085 Colonial Latin America (3)** Colonial period emphasizing the European background, explorations, political and economic systems, and wars of independence.

★ **2086 Latin America Since Independence (3)** Latin American countries in the 19th and 20th centuries; search for political stability, economic and social progress, and international relations.

2095 East Asian Civilization to 1800 (3) Interdisciplinary and cultural approach to the civilization of East Asia, particularly China and Japan, from antiquity to early contacts with the West.

★ **2096 East Asian Civilization Since 1800 (3)** Modern Asian civilization; emphasis on contact with the West, and the rise of nationalism and communism.

★ **2135 Introduction to Russian Culture and Civilization (3)** See RUSS 2075.

2195 Topics in History (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary.

3001 History and the Social Sciences I (1) Prereq.: EDCI 2001. Concurrent enrollment in EDCI 3001. Supervised tutorial experience in local middle or high schools. Introduction to the role of the social sciences in the study of history.

3002 History and the Social Sciences II (1) Prereq.: EDCI 3001 and HIST 3001. Concurrent enrollment in EDCI 3002. The role of the social sciences in the study of history; course will assist student in the teaching of social studies to small groups in middle and high schools.

3071 Louisiana (3) Political, economic, social, and cultural development.

3115 Introduction to Historical Method (3) Survey of different methods and perspectives used in the research and writing of history.

3117 Undergraduate Proseminar in World History (3) Prereq.: consent of instructor. Open to students with at least 6 sem. hrs. of credit in history and with an overall 3.00 gpa. May be taken for a max. of 9 hrs. of credit when topics vary. Supervised reading and research in an assigned field of historical study.

3118 Undergraduate Proseminar in European History (3) Prereq.: consent of instructor. Open to students with at least 6 sem. hrs. of credit in history and with an overall 3.00 gpa. May be taken for a max. of 9 hrs. of credit when topics vary. Supervised reading and research in an assigned field of historical study.

3119 Undergraduate Proseminar in United States History (3) Prereq.: consent of instructor. Open to students with at least 6 sem. hrs. of credit in history and with an overall 3.00 gpa. May be taken for a max. of 9 hrs. of credit when topics vary. Supervised reading and research in an assigned field of historical study.

4001 Greece of the City State (3) Political, social, and cultural evolution of the Greek world from the Bronze Age to the foundation of the Macedonian Empire of Alexander the Great; attention to growth of democratic institutions.

4003 The Roman Republic (3) The Roman state, culture, and society from the origin of the city to the dictatorship of Julius Caesar.

4004 Rome of the Caesars (3) The growth of absolute government, spread of Christianity, and other political, cultural, and social movements from the establishment of the Principate to the fall of the Western Empire.

4005 History of the Christian Church: 50-450 (3) See REL 4005.

4006 History of the Christian Church: 450-1350 (3) See REL 4006.

4007 The Early Middle Ages, 300-1000 (3) History of Europe from Constantine the Great to the end of the Carolingians; development of medieval society and institutions.

4008 The Later Middle Ages, 1000-1500 (3) History of Europe from the Investiture Controversy to the voyages of Columbus; developments in social, cultural, and political institutions.

4009 The Renaissance (3) Italian society and thought from Dante to Machiavelli, with emphasis on the medieval foundations of Renaissance culture; northern Europe from the Hundred Years War to the Reformation, with emphasis on political and economic development.

4011 The Age of the Reformation (3) Also offered as REL 4011. Sixteenth century Europe with emphasis on Protestant and Catholic reform movements.

4012 History of Modern Christian Thought (3) See REL 4012.

4014 The Old Regime and the Enlightenment (3)

Institutions of the Old Regime, with emphasis on the Enlightenment, 1660-1760.

4015 French Revolution and Napoleon (3) Background, constructive developments, and territorial changes resulting from wars of the period, with emphasis on Europe's emergence into a new era.

4016 19th Century Europe (3) The period 1815-1870.

4017 20th Century Europe (3) Survey of 20th century European history; emphasis on the role of total war in social, political, and cultural change and the impact of modern nationalist ideologies.

4020 Modern Italy (3) Intellectual, economic, social, and political history of Italy from the Enlightenment to present; emphasis on national unification, Fascism, and World War II; post-war economic development and terrorism.

- 4021 France to 1770 (3)** Cultural, political, economic, and social survey of France from earliest times to the pre-revolutionary period.
- 4022 France since 1770 (3)** Cultural, political, economic, social, and intellectual survey of France from the pre-revolution to the present.
- 4023 Spain since 1469 (3)** Political, economic, and social development from the marriage of Ferdinand and Isabella to the present.
- 4024 The Dutch Republic and Empire: 1500-1800 (3)** Political, economic, social, and cultural history of one of the great powers of early modern Europe; emphasis on the Golden Age of Rembrandt and Vermeer.
- 4025 Germany from the Reformation to Bismarck (3)** German political, social, and cultural development from 1500 to 1890; the Thirty Years' War; the rise of Prussia; the nationalism of the 19th century.
- 4026 20th Century Germany (3)** The states that have existed in Germany since 1890; the Wilhelminian Empire; the Weimar Republic; the Third Reich; and the Germany of today.
- 4028 The First World War (3)** The First World War, 1914-1918, including controversies regarding its origin and aftermath.
- 4029 Eastern Europe: 1700-1914 (3)** Emphasis on the rise of nationalism in the 19th century.
- 4030 Eastern Europe: 1914-Present (3)** Emphasis on the independent nation-states after World War I, impact of totalitarianism, and the current liberalization.
- 4031 The Balkans: 1453-1878 (3)** Origins of the Balkan peoples, development of the Ottoman Empire, and rise of the autonomous Balkan nation-states.
- 4032 The Balkans: 1879-Present (3)** Events leading up to and including World War I, problems of the inter-war period, World War II, and rise and decline of Communism in Southeastern Europe.
- 4033 Russia to 1861 (3)** Kievan Rus, the Tsardom of Muscovy, and Imperial Russia to the emancipation of the serfs.
- 4034 Russia Since 1861 (3)** Reaction and reform from 1861 to 1905; failure of parliamentary democracy amid war and revolution; Leninism and Stalinism; relaxation of totalitarian rule since Stalin's death.
- 4039, 4040 English Constitutional History (3,3)** Origin and development of English legal institutions; their influence on American legal institutions.
- 4043 Tudor England (3)** Political, economic, and cultural history of 16th century England.
- 4044 Stuart England (3)** Period of transition from kings who would be absolutist, through the crisis of civil wars, to the beginnings of parliamentary dominance.
- 4045 18th Century Britain (3)** Political, economic, social, and intellectual history from the accession of George I to the French Revolutionary Wars.
- 4046 19th Century Britain (3)** Emphasis on the acquisition of Empire, emergence of industrial society, and the rise of Victorianism between 1780 and 1900.
- 4047 20th Century Britain (3)** Intellectual, political, social, and economic developments since 1900, including the experience of total war, construction of the welfare state, imperial decline, and the significance of Thatcherism.
- 4048 Modern Irish History: 1600-Present (3)** Development of communities and conflicts in Ireland from the Tudors to the European community; emphasis on cultural, political, and military affairs.
- 4049 The British Empire and Commonwealth (3)** British Empire and development of the British Commonwealth of Nations.
- 4050 British Colonialism in South Asia (3)** Political, economic, and cultural history of the British Empire in South Asia from the founding of the East India Company in 1600 to the end of the British imperial role in 1947.
- 4051 Colonial America: 1607-1763 (3)** Political, economic, cultural, and military developments in the 13 colonies.
- 4052 The American Revolution, 1763-1789 (3)** Political, intellectual, economic, and military developments in the formation of a permanent American union.
- 4053 The Age of Jefferson and Hamilton: 1789-1820 (3)** Implementation of the Constitution, adoption of the Bill of Rights, formation of a political party system, and economic and social change.
- 4054 The Age of Jackson: 1820-1860 (3)** Examination of democratization, economic transformation, party development, the reform movement, slavery, and the sectional crisis.
- 4055 Civil War (3)** Also offered as MILS 4055. Secession; social and economic conditions, principal military campaigns.
- 4056 Reconstruction (3)** Political, social, and economic changes in the South from 1865 to 1880.
- 4057 The Emergence of Modern America (3)** Industrialization, party politics, and social life in the U.S. from 1870 to 1900.
- 4059 The American Teens and Twenties (3)** From the inaugural of Woodrow Wilson to the Crash of 1929; Wilson and reform at home and revolution abroad; the Great War and its impact; the Jazz Age, its tension and its collapse.
- 4060 The Age of Roosevelt (3)** From the inaugural of FDR to the surrender of Japan: the Great Depression and the New Deal; the thirties' search for an American culture; the road to Pearl Harbor; America in World War II, at home and abroad.
- 4061 Intellectual and Social History of the United States to 1865 (3)** Ideas and their relationship to American society from the colonial period to the Civil War.
- 4062 Intellectual and Social History of the United States from 1865 to the Present (3)** Ideas and their relationship to American society from the Civil War to the present.
- 4063 Diplomatic History of the United States to 1914 (3)** American foreign policy from its colonial antecedents up to the eve of the First World War with a focus on commercial and territorial expansion.
- 4064 Diplomatic History of the United States, 1914 to the Present (3)** Interpretations of American foreign policy in the 20th century; emphasis on public opinion and relationship of business investment to foreign policy.
- 4065 History of Contemporary America (3)** History of America since 1945, focusing on domestic affairs.
- 4066 Military History of the United States (3)** Also offered as MILS 4066. Military policy and campaigns, war economy, and organization of the armed forces.
- 4067 African American History to 1876 (3)** Life and history from 1619 to the end of Reconstruction; African background of African Americans.
- 4068 African American History since 1876 (3)** Life and history from the end of Reconstruction to the present; emphasis on the 20th century as an era of change.
- 4069 The American West in the 19th Century (3)** Selected themes in the political, military, social, economic, and cultural history of the Trans-Mississippi West in the 19th century.
- 4070 The American West in the 20th Century (3)** Selected themes in the political, social, economic, and cultural history of the Trans-Mississippi West in the 20th century.
- 4071 The Antebellum South (3)** Economic, social, intellectual, and political development of the South to 1860.
- 4072 The New South (3)** Political, economic, social, and intellectual history of the South since 1877.
- 4073 Louisiana to 1815 (3)** Political, economic, and social development of early Louisiana.
- 4075 American Economic History to 1860 (3)** Also offered as ECON 4075. American economic growth and development from the colonial period to 1860, including the railroad, slavery, technology, and nature of the industrial revolution; findings and method of the "new" or quantitative economic history.
- 4076 American Economic History: 1860 to the Present (3)** Also offered as ECON 4076. American economic growth and development from 1860 to the present; economic impact of the Civil War, technological change, mechanization of agriculture, railroads, automobiles, war, the Great Depression, and multinational corporations; findings and method of the "new" or quantitative economic history.
- 4077 American Popular Culture (3)** Examination of popular culture forms from 19th-century vaudeville to today's music videos; emphasis on development of mass media.
- 4078 Asian-American History (3)** History of Asian peoples in the United States; topics including immigration, community development, cultural conflict, racism, and stereotypes.
- 4079 Women in American History (3)** Survey of political, social, economic, and cultural development of American women from colonial times to present; topics include nineteenth century women's rights movement, woman suffrage, women in civil rights movement, birth control, the modern feminist movement, and southern women.
- 4081 The Caribbean: 1492-1830 (3)** Nature of and changes in economic and political institutions after European colonization, international conflicts, and abolition of slavery, primarily in the Greater and Lesser Antilles.
- 4083 Mexico: The National Period (3)** Political, economic, and social development since Independence.
- 4084 West Africa to 1800 (3)** The geography, ethnicity, and social, economic, and political development of West Africa from the prehistoric period to 1800.
- 4085 West Africa from 1800 (3)** The rise of Islamic orthodoxy, the role of imperialism, the rise of African nationalism, and other themes in the history of West Africa since 1800.
- 4087 Mexico: The Colonial Period (3)** Emphasis on events that gave rise to the socioeconomic and political problems of modern Mexico.
- 4089 Brazil: The National Period (3)** Political, economic, social, and diplomatic developments from the early 19th century to the present.
- 4091 China to 1600 (3)** History and civilization, including a survey of religion and philosophy, language and literature, art and archaeology, and popular culture.
- 4092 China since 1600 (3)** Western impact on civilization and the processes of revolution and modernization during the past century.
- 4093 Pre-Modern Japan (3)** Political and cultural history and civilization from the beginnings to the close of the Japanese middle ages.
- 4094 Modern Japan (3)** From 1600 to the present; emphasis on historical and cultural roots of Japan's modernization in the late 19th century and quest for empire in the 20th century; cultural and intellectual developments in modern Japan.
- 4095 The Middle East to 1800 (3)** Also offered as REL 4095 and INTL 4095. History and culture of the Arab people in the Middle East and the Maghrib from the pre-Islamic period to the end of the 18th century.
- 4096 The Modern Middle East (3)** Also offered as REL 4096 and INTL 4096. Major problems of the Middle East and North Africa in the modern period; internal Arab social, economic, and intellectual developments; Muslim responses to European colonialism; modern Arab nationalism and political trends; Islamic reformist and revivalist movements; problem of Palestine.
- 4097 History of South Asia (3)** Social, political, economic, and cultural evolution of South Asia from the Bronze Age to the creation of India and Pakistan in 1947.
- 4098 Muslims of South Asia (3)** Also offered as REL 4098. Origins and evolution of Islamic political, social, and cultural institutions in South Asia, focusing on cross-cultural interactions from the birth of Indo-Muslim communities in the 8th century to the rise of Muslim Nationalism in the 20th century.
- 4100 Approaches to History (3)** Open to students having 6 hrs. credit in history and to others with consent of instructor. Can be taken for Honors credit. Changing conceptions and methods of writing history from classical Greece to the present.
- 4105 Studies in Classical History (3)** Selected periods and problems in Greek and Roman history; methods and materials of ancient scholarship.
- 4109 HONORS: Proseminar (3)** Open to qualified honors students having 12 hrs. credit in history and consent of instructor. Candidates for the honors degree in history will select an honors thesis before the end of the semester. Supervised reading in an assigned field of historical study; discussion of historical methods and research.
- 4110 HONORS: Senior Thesis Research Seminar (3)** Prereq.: HIST 4109. Open to honors students with consent of seminar director. Thesis writing under supervision of seminar director; oral examination upon completion of thesis; student will be examined by a committee of three or four faculty members on thesis content and on student's general field of historical interest.
- 4112 Modern European Intellectual History: the Enlightenment to 1850 (3)** Modern thought in cultural, social, political contexts from Voltaire to Marx.
- 4113 Modern European Intellectual History Since 1850 (3)** European thought affecting society in the industrial age; realism, psychoanalysis, existentialism, the information explosion.
- 4120 Russian Ideologies: 1840-1940 (3)** Social and political ideologies in the context of autocracy, serfdom, industrialization, and revolution; evolution of Soviet Marxism.
- 4125 History of Ancient Israel (3)** See REL 4125.
- 4126 The Russian Economy in the 20th Century (3)** See ECON 4025.
- 4130 World War II (3)** Also offered as MILS 4130. Global crisis of the 1930s; Axis and Allied strategies; major military campaigns; great power diplomacy; life on the homefronts; the Holocaust; espionage and resistance; the experience of combat; social, political, and scientific consequences.
- 4140 The Vietnam War (3)** French colonial rule and Vietnamese nationalism; Ho Chi Minh and the war against the French (1946-54); the National Liberation Front (Vietcong); process of American involvement and disengagement; counter-insurgency and the air war; anti-war movement in the United States; reasons for failure of American policy; Vietnam since 1975; lessons and legacies for the U.S.
- 4151 Historical Archaeology (3)** See ANTH 4018.
- 4161 Religion in the United States (3)** Also offered as REL 4161. From the colonial period to the present; relation between changing religious beliefs and behavior of Americans and political, social, economic, and intellectual developments; Puritanism, revivalism, response to Darwinian evolution, social gospel, and civil religion.
- 4191 Religions of China and Japan (3)** Also offered as REL 4191. Major religious traditions of East Asia; Confucianism, Taoism, Mahayana Buddhism, Shinto, and Chinese and Japanese folk religion; religion in the context of Chinese and Japanese cultural history.

4195 Special Studies in World History (3) Prereq.: consent of department. May be repeated for credit when topics vary.

4196 Special Studies in European History (3) Prereq.: consent of department. May be repeated for credit when topics vary.

4197 Special Studies in United States History (3) Prereq.: consent of department. May be repeated for credit when topics vary.

4200 African American in Louisiana (3) Life, history, and culture of African Americans in Louisiana, from the colonial times to the present.

4201 Civil Rights Movement (3) The history of the black freedom struggle from 1945-1972.

4202 Black Nationalism (3) The evolution of black nationalist thought from the colonial period to the present

4403 History and the Social Sciences III (1) Prereq.: EDCI 3002 and HIST 3002; concurrent enrollment in EDCI 4003. The role of social sciences in the study of history; course will assist students in the teaching of social studies to full classes of middle and high schools.

4404 Seminar in History and the Social Sciences (3) Prereq.: EDCI 4003 and HIST 4403; concurrent enrollment in EDCI 4004 and 4005. How history and the social sciences view issues of importance in the contemporary world; course will assist students who are enrolled in student teaching.

4901 Independent Study (3) Prereq.: open to advanced students of high academic standing by consent of department. Reading and research on selected topics.

4902 Independent Study (3) Prereq.: open to advanced students of high academic standing by consent of department. Reading and research on selected topics.

7902 Independent Study in History (3) May be taken for a max. of 9 sem. hrs. of credit.

7904 American Historiography and Criticism (3) American historical writing from the colonial period to the present.

7908 Introduction to Historical Research (3) General methods of and approaches to historical research and writing in European and American history, including theories, current approaches, problems, and debates.

7909 Research Seminar in European History (3) Sources, bibliography; reports on original research.

7915 Reading Seminar in European History (3) V

7981, 7982 Seminar in Latin American History (3,3)/7916 Reading Seminar in Renaissance and Reformation (3) V

7917 Reading Seminar in Early Modern Europe (3) V

7918 Reading Seminar in 18th Century Europe (3) V

7919 Reading Seminar in 19th Century Europe (3) V

7920 Reading Seminar in 20th Century Europe (3) V

7921 Reading Seminar in Special Topics in European History (3) V May be taken for a max. of 6 sem. hrs. credit when topics vary.

7922 Reading Seminar in European History to 1650 (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary.

7923 Reading Seminar in European History from 1500 (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary.

7930 Reading Seminar in British History (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary.

7951 Reading Seminar in American History, 1607 to 1815 (3) F

7952 Reading Seminar in American History, 1815-1890 (3) Prereq.: HIST 7951.

7955, 7956 Reading Seminar in American History from 1865 to the Present (3,3) 7955 and 7956 may be taken together.

7957 Research Seminar in American History (3) Introduction to research methods, sources, and bibliography; reports on original research.

7958 Research Seminar: Special Topics in American History (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Reports on original research.

7959 Reading Seminar: Special Topics in American History (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary.

7970 Reading Seminar in Comparative History (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Sources and bibliography; reports on original research.

7983, 7984 Seminar in Latin American History (3,3) Sources and bibliography; reports on original research.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

HONORS • HNRS

General education courses are marked with stars (★).

★ **1001 Seminar in Ancient Western Civilization (3)** Prereq.: ENGL 1001 or equivalent. Coreq.: HNRS 1003.

Credit will not be given for this course, HNRS 1101 and CLST 2101. Curricular equivalent of a humanities elective. The ancient world, including literature, history, philosophy, religion, government, and fine arts.

★ **1003 Lectures in Ancient Western Civilization (3)** Coreq.: HNRS 1001. Credit will not be given for this course and HNRS 1103. Curricular equivalent of a 3 hr. history, social sciences, or humanities elective. Lectures, readings, and examinations coordinated with HNRS 1001.

★ **1007 Introduction to Life Sciences (4)** 2 hrs. lecture; 4 hrs. lab. Not open to students who have had BIOL 1001, 1002, 1201, 1202, 1207, 1208, 1209, or 1503. A basic course, organized in accordance with the principle of organic evolution, emphasizing the chemical basis of life and cell biology.

★ **1008 Introduction to the Life Sciences (4)** 2 hrs. lecture; 4 hrs. lab. Not open to students who have had BIOL 1001, 1002, 1201, 1202, 1207, 1208, 1209, or 1503. Continuation of HNRS 1007. A basic course, organized in accordance with the principle of organic evolution, emphasizing phylogeny, morphology, function of multicellular organisms, and people's relation to their environment.

★ **1035 Life Science Seminar (3)** May be taken for a max. of 6 hrs. credit when topics vary. For non-science majors only. Special topics in the Life Sciences.

★ **1036 Physical Science Seminar (3)** May be taken for a max. of 6 hrs. credit when topics vary. For non-science majors only. Special topics I the Physical Sciences.

1101 Seminar in Comparative Civilizations (3) Prereq.: ENGL 1001 or equivalent. Coreq.: HNRS 1103. Credit will not be given for this course and HNRS 1001. Curricular equivalent of a humanities elective. Comparative and interdisciplinary study of the history, literature, philosophy, religion, and art of five ancient civilizations: Greek, Indian, Chinese, Japanese, and Meso-American.

1103 Lectures in Comparative Civilizations (3) Coreq.: HNRS 1101. Credit will not be given for this course and HNRS 1003. Curricular equivalent of a 3 hr. history, social sciences, or humanities elective. Lectures, readings, and examinations coordinated with HNRS 1101.

★ **2000 Critical Analysis (3)** Course for first-year Honors College students. Introduction to various practices of academic discourse and research methods. Interdisciplinary approach to a specific topic.

★ **2002 Seminar in Roman and Medieval Civilization (3)** Prereq.: HNRS 1001 and 1003; or 1101 and 1103. Coreq.: HNRS 2004. Curricular equivalent to ENGL 2000. European civilization from ancient Rome through the Middle Ages; includes literature, history, philosophy, religion, government, and fine arts.

★ **2004 Lectures in Roman and Medieval Civilization (3)** Prereq.: HNRS 1001 and 1003; or HNRS 1101 and 1103. Coreq.: HNRS 2002. Lectures, readings, and examinations coordinated with HNRS 2002.

2011 The Age of Enlightenment (3) Curricular equivalent to ENGL 2000. Literature, philosophy, history, art, and science of the age of enlightenment.

★ **2012 The 19th Century (3)** Curricular equivalent to ENGL 2000. Perspectives fundamental to 19th century culture; relevant works of literature, philosophy, art, science.

★ **2013 The 20th Century (3)** May be taken for a max. of 6 hrs. of credit. Curricular equivalent to ENGL 2000. Selected themes in 20th century civilization.

★ **2021 Colloquium in the Arts (3)** May be taken for a max. of 6 hrs. of credit. Curricular equivalent to ENGL 2000. Art forms and their cultural significance; particular themes involving examination of art works.

2202 Seminar in Colonial and Early National America (3) Prereq.: HNRS 1001 and 1003; or HNRS 1101 and 1103. Coreq.: HNRS 2204. Curricular equivalent to ENGL 2000. Interdisciplinary presentation of development of the American world to 1828, integrating literature and culture with political, economic, and social history.

2204 Lectures in Colonial and Early National America (3) Prereq.: HNRS 1001 and 1003; or HNRS 1101 and 1103. Coreq.: HNRS 2202. Lecture, readings, and examination coordinated with HNRS 2202.

★ **3001 European Civilization from 1400 to 1789: The Old Regime (4)** Continuation of HNRS 2002, 2004. Interdisciplinary presentation of development of western civilization from the Renaissance through the Enlightenment; literature, history, philosophy, religion, government, and fine arts.

★ **3003 Western Civilization from 1789: The Modern World (4)** Continuation of HNRS 3001. Interdisciplinary presentation of development of western civilization from the era of revolution to the present; literature, history, philosophy, religion, government, and fine arts.

3010 Leaders and Scholarship (3) Analysis of classical and modern foundations and principles of leadership. Practice in scholarship essay writing, interviewing, debate, and critical thinking. Intended for national and international scholarship applicants.

★ **3030 Humanities Colloquium (3)** May be taken for a max. of 6 hrs. of credit. Selected themes and materials in literature, philosophy, history, and art.

★ **3031 American Studies (3)** May be taken for a max. of 6 hrs. of credit when topics vary. Selected topics in American civilization.

★ **3033 Social Science Colloquium (3)** May be taken for a max. of 6 hrs. of credit when topics vary. Topics of significance from the standpoint of various social sciences.

3035 Natural Science Colloquium (3) Prereq.: completion of one-year course in a physical science and one-year course in a biological science, at least one with laboratory; or consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary. Selected topics illustrative of developing concepts of the natural and physical universe and of living organisms.

3100 Internships, Field Work, Off-Campus Programs (1-6) Prereq.: consent of dean of Honors College. May be taken for a max. of 6 sem. hrs. of credit. For special learning opportunities.

3991 Thesis (3) Independent research and writing toward the honors thesis; the thesis itself to be completed in HNRS 3992.

3992 Thesis (3) An essay based on independent reading and research or a report on laboratory or field research.

4813 Interdisciplinary Fluid Dynamics: Physical Concepts (3) See ME 4813.

4823 Interdisciplinary Fluid Dynamics: Computational Methods (3) See ME 4823.

HORTICULTURE • HORT

2001 Organic Gardening (2) F One hr. lecture; 2 hrs. lab. For non-horticulture majors. Principles and practices of organic vegetable production.

2010 Horticulture Technology (2) F Prereq.: MATH 1021. Introduction and overview of calculations and measurements used in applied horticulture.

2011 Analysis of Environmental Issues (3) See EMS 2011.

2020 Installation and Maintenance of Ornamentals in the Landscape I (2) F 1 hr. lecture; 2 hrs. lab. Introduction to soil analysis and preparation; installation and maintenance of landscape plants including trees, shrubs, perennials, and annuals; irrigation installation and repair.

2022 Installation and Maintenance of Ornamentals in the Landscape II (2) S Prereq.: HORT 2020 or consent of instructor. 1 hr. lecture; 2 hrs. lab. Introduction to the management of interior plants; pruning techniques for trees, shrubs, palms, and roses; evaluation of landscape documents, cost estimation and bidding.

2025 Introduction to the Green Industry (2) F Defining the general management structure and use of horticultural concepts specific to the "green agribusiness" sector; topics include entrepreneurial entry; specialized green industry labor; regulatory oversight; applied use of permits, waivers, and variances; cost effect of regulatory compliance; acquired use of patent and proprietary licensing.

2050 General Horticulture (4) F,S 3 hrs. lecture; 2 hrs. lab. Science and art of modern horticultural plant production, including propagation, fertilization, pest control, and pruning; major groups of garden crops including vegetables, fruits and nuts, ornamentals, houseplants, and florist crops; lab includes propagation and culture of garden plants in field and greenhouse.

2061 Plant Propagation (3) S-O Prereq.: HORT 2050. 2 hrs. lecture; 2 hrs. lab. Principles of sexual and asexual propagation; specific methods for reproduction of plants.

2086 Introduction to Turfgrass Management (3) S-E Prereq.: BIOL 1202 or 1002; AGRO 2051 or equivalent. 2 hrs. lecture; 3 hrs. lab. Required field trips. Also offered as AGRO 2086. Turfgrass identification and adaptation; establishment and maintenance of high quality turf areas; turfgrass pests and their control.

2122 Herbaceous Plant Materials (2) S-O 1 hr. lecture; 2 hrs. lab. Identification and study of plant materials; production protocols, growth and development, and visual characteristics of herbaceous plant materials used in ornamental horticulture and landscaping.

2124 Woody Plant Materials I (2) F 1 hr. lecture; 2 hrs. lab. Identification and study of plant materials; ecological and visual characteristics of plants used in landscape design.

2125 Wood Plant Materials II (2) S Prereq.: HORT 2124 or consent of instructor. 1 hr. lecture; 3 hrs. lab.

Continuation of HORT 2124. Introduction to the nursery industry including production, availability, and marketing.

2130 Survey of Arboriculture (2) S 1 hr. lecture; 2 hrs. lab. Review of the biology, growth, environment, and management practices for trees in the landscape.

2860 Growth and Development of Agricultural Crops (3) F-O Prereq.: CHEM 1002 or 1202 and BIOL 1002 or 1202. 2 hrs. lecture; 2 hrs. lab. This course is part of

ACCEPIS. Physiology of agricultural plants, including water relations, respiration, photosynthesis, and growth and development.

3000 Horticultural Internship (3) Prereq.: HORT 2050 and written consent of instructor. May be taken for a max. of 6 sem. hrs. credit. Work experience in horticultural industries culminating in acceptable written reports and a seminar presentation.

3010 Research Problems (3) Written consent of the instructor. May be taken for a max. of 6 sem. hrs. credit. Independent research under a faculty member culminating in an oral and written research report.

3015 Urban Landscape Management (3) S-E Prereq.: HORT 2050, 2124 or equivalent. 2 hrs. lecture; 2 hrs. lab. Management of the landscape through proper installation, soil management, plant care, pesticide management, employee management, and cost accounting.

3040 Landscape Construction (2) S-O 1 hr. lecture; 2 hrs. lab. Survey of construction techniques and materials used in landscape contracting including drainage systems, paving, retaining walls, decking, and fencing.

4010 Tropical/Subtropical Horticulture (3) S-E Prereq.: HORT 2050 or equivalent. Current status of cultivation throughout the world; production practices; postharvest handling; international trade of tropical/subtropical horticultural crops.

4012 Special Topics in Horticulture (1-3) V Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Lab/field trip may be required. Subject areas not covered in other horticulture courses.

4020 Greenhouse Production and Management (4) F 3 hrs. lecture; 2 hrs. lab. Physiology and greenhouse production of floriculture crops with hands-on learning in production technology, scheduling, economics, and regulation of crop growth and development and general physiology of flowering pot plants.

4030 Plantation, Beverage, and Tropical Nut Crops (3) S-O Prereq.: HORT 2050 or equivalent. World situations, production practices, pest management, harvesting, postharvest care, agro-processing, and international trade of rubber, oil palm, cocoa, coconut, olive, coffee, tea, wine grapes, vanilla, and various tropical/subtropical nut crops.

4040 International Horticulture (3) S Prereq.: HORT 2050 or equivalent. Overview of the horticulture industry worldwide. Production, handling, marketing, and international trade issues presented in a global context.

4050 Horticultural Science Education (3) F,S 2 hrs. lecture; 2 hrs. lab. May be taken for a max. of 6 sem. hrs. of credit. Methodology for teaching horticultural science education and service education laboratory experiences in local schools.

4051 Processing of Fruits and Vegetables (3) S-O Prereq.: FDSC 1049 or HORT 2050 or equivalent. 2 hrs. lecture; 2 hrs. lab. Methods of processing horticultural crops; includes canning, freezing, dehydration, and fermentation.

4052 Horticulture Processing Facilities (2) S-E Prereq.: HORT 4051 or FDSC 4075 or consent of instructor. Required field trips. Review of criteria for GMP design and construction of fruit and vegetable processing plants, including process layout and sanitary considerations.

4064 Principles of Plant Breeding (4) See AGRO 4064.

4071 Nursery Management (3) F-O Prereq.: BIOL 3060 or equivalent. 2 hrs. lecture; 2 hrs. lab. Required field trips. Principles and practices involved in commercial production, management, and marketing of nursery crops.

4083 Principles and Practices in Olericulture (4) F-E Prereq.: AGRO 2051 and HORT 2050. 3 hrs. lecture; 3 hrs. lab. Required field trips. Review of U.S. commercial vegetable industry; seed handling, field microclimate modification, transplant handling, stand establishment, influence of soil chemical and physical properties, and greenhouse vegetable production.

4085 Principles and Practices in Fruit and Nut Production (4) S-O Prereq.: HORT 2050 or equivalent. 3 hrs. lecture; 2 hrs. lab. Required field trips. Physiological principles involved in growing pomological crops; overview of state, U.S., and worldwide fruit and nut industry; marketing and production strategies.

4090 Golf Course Operations (4) S Prereq.: HORT 4086. 3 hrs. lecture; 2 hrs. lab. Golf course management; construction; cultural practices; environmental concerns.

4096 Postharvest Physiology (4) S-E Prereq.: PLHL 3060. 3 hrs. lecture; 2 hrs. lab. Physiological changes associated with storage and handling of fruits and vegetables; current practices used in extending shelf-life; basic and applied laboratory analysis techniques.

6011 Topics in Plant, Environmental and Soil Sciences for Teachers (3) See EMS 6011.

7050 Plant Tissue Culture (4) Prereq.: BIOL 4024, PLHL 3060, HORT 2061. 2 hrs. lecture; 6 hrs. lab. The *in vitro* culture of selected higher vascular plants; media preparation; cell, callus, and organ cultures; protoplast isolation, culture, and fusion; embryo genesis and plantlet regeneration and

haploid culture.

7070 Advanced Plant Breeding (4) S-E See AGRO 7070.

7071 Advanced Plant Genetics (4) S-O Prereq.: AGRI 2072 or equivalent. See also AGRO 7071. Theory and practical application of cytogenetics, extrachromosomal inheritance, and molecular techniques in plant genetics.

7074 Quantitative Genetics in Plant Improvement (3) See AGRO 7074.

7913 Seminar (1) May be taken for a max. of 4 hrs. of credit. Topics of current interest in horticulture.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Research Problems in Horticulture (3) Prereq.: consent of department head. May be taken for a max. of 6 hrs. of credit when topics vary. Pass-fail grading. Students minoring in horticulture may take this course only once.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

HUMAN ECOLOGY • HUEC

In the School of Human Ecology, the third digit of the course number denotes the subject area of the course as follows: 1 and 2—human nutrition and food; 3 and 4—apparel, textiles and merchandising; 5 and 6—child and family studies; 9 and 0—general courses (except 7094 which is a nutrition course).

GENERAL HUMAN ECOLOGY

1000 Human Ecology as a Profession (3) Attributes that identify human ecology as a profession; historical and philosophical view of its mission, interrelationship of its various specializations, and competencies and commitments necessary in the various specializations.

2091 Special Topics in Human Ecology (1-3) Prereq.: consent of director for majors in human ecology. May be taken for a max. of 6 hrs. of credit when topics vary.

Contemporary issues in human ecology of interest to special professional and business groups.

3091 Reading and Research in Human Ecology (1-6) Open to advanced students of high academic standing by consent of director. May be taken for a max. of 6 hrs. of credit. Students are responsible for registering with a faculty member with whom they will select the area of reading and research.

4091 Special Topics in Human Ecology (1-3) Prereq.: consent of director. May be taken for credit for a max. of 6 sem. hrs. when topics vary. Lectures and/or laboratories on selected topics not covered in other human ecology courses.

7090 Research Methods in Human Ecology (3) Philosophy of human ecology research; issues and trends; design and methodology.

7091 Independent Reading and Research in Human Ecology (1-6) Prereq.: permission of department. May be taken for a max. of 6 hrs. of credit. Directed individual reading and research in a selected area of human ecology.

7092 Human Ecology Research Seminar (1) F,S Required of all doctoral students in human ecology during each semester of full-time residence. Only 3 sem. hrs. of credit may be applied toward the degree. May be taken for a max. of 3 sem. hrs. of credit. "P"/"F" grading. Research reports and discussion of current topics and issues in human ecology.

7093 Advanced Research Methods in Human Ecology (3) Prereq.: HUEC 7090 or equivalent and EXST 7013 or 7014 or 7015 or equivalent. 2 hrs. lecture; 2 hrs. lab. Research methods and applications in human ecology.

7900 Research and Project Development in Human Ecology (1-12) Prereq.: permission of department. Credit will not be given for this course and HUEC 8000. May be repeated for a max. of 15 sem. hrs. credit. "S/U" grading. Directed research and focused project development under the supervision of the major professor.

8000 Thesis Research (1-12 per sem.) Prereq.: permission of department. "S"/"U" grading. Credit will not be given for this course and HUEC 7900.

9000 Dissertation Research (1-12 per sem.) Prereq.: permission of department. "S"/"U" grading.

9091 Independent Research for Doctoral Students (1-6 per sem.) Prereq.: must be a doctoral student and have consent of instructor and approval of the student's full doctoral committee for each repetition of the course. This course may be repeated for credit; a max. of 15 sem. hrs. is allowed toward doctoral requirements. Credit in HUEC 7091 is included in the 15 sem. hrs.

FAMILY, CHILD, AND CONSUMER SCIENCES

2050 Family Dynamics (3) F A systems approach to examining family processes and development throughout the life span.

2061 The Family in a Consumer Society (3) An introduction and overview of family consumer opportunities and problems in contemporary society.

2065 Management of Family Systems and Services (3)

Prereq.: credit or registration in HUEC 1000. A systems perspective of contemporary families and their processes including environmental influences, elements of family management, and management of school and community resources and services.

2083 Introduction to Early Childhood Education (3) An introduction to the field of early childhood education (ECE), encompassing the years from birth through age eight.

3055 Development of Young Children in Context (4) Prereq.: BIOL 1001. 3 hrs. lecture; 2 hrs. field observations. Development of children from prenatal to age eight in the family and other developmental contexts; field observations with infants and toddlers, observations and practical experience in the School of Human Ecology's Preschool Laboratory and in other early childhood settings.

3056 Young Children's Cognitive and Linguistic Development (3) Prereq.: HUEC 3055. An introductory survey of current theory and research on young children's cognitive and linguistic development; special attention is given to the development of oral language, reading skills, and mathematical concepts in young children; emphasis on implications for the early childhood education classroom.

3057 Learning Environments for Infants, Toddlers, and Preschool Children (3) Prereq.: HUEC 2065, 2083, and 3055; 2 hrs. lecture; 3 hrs. lab. Planning and preparing environments and learning experiences to support optimal physical, social, emotional, and cognitive development of young children.

3060 Family Finance (3) Prereq.: ECON 2030 or AGECE 2075 or equivalent. Development of bases for decision making related to family income, saving, and spending.

3065 Adult-Child Relationships (3) S Prereq.: HUEC 2050. Parent-child and other adult-child interactions and relationships; emphasis on the development and interactive nature of adult-child relationships including the influence of adult-child relationships on child outcomes and adult behavior.

3067 Field Experience in Family, Child & Consumer Science (1-4) Prereq.: HUEC 2050 or 2065. 2-8 hrs. field experience per week. For majors only. May be taken for a max. of 4 sem. hrs. credit. Supervised professional experience designed to integrate academic learning with practice.

3090 Professional Seminar in Family, Child, and Consumer Sciences (2) Prereq.: at least 2 credit hrs. of HUEC 3067 or concurrent enrollment in HUEC 3067. For majors only. Preinternship seminar; the family, child, and consumer scientist in today's society.

3381 Early Childhood Curriculum (3) Prereq.: HUEC 2083 and concurrent enrollment in HUEC 3055, 3382, and 3383. Comprehensive integrated curriculum content for children in prekindergarten and kindergarten: reading/language arts, mathematics, science, social studies, and the arts.

3382 Early Childhood Pedagogy (3) Prereq.: HUEC 2083 and concurrent enrollment in HUEC 3055, 3381, and 3383. 2 hrs. lecture; 3 hrs. lab/field experience in multilevel, multicultural settings. Ways of instructing children from birth to kindergarten.

3383 Assessment and Planning for Reflective Instruction (3) Prereq.: Concurrent enrollment in HUEC 3055, HUEC 3381, and HUEC 3382. 2 hrs. lecture; 6 hrs. lab/field experience in multilevel, multicultural settings.

Process of building the teaching and learning cycle (assessing, planning, teaching, reflecting) into integrated instruction of children in prekindergarten and kindergarten.

4051 The Adolescent and the Family (3) Prereq.: HUEC 3055 or equivalent. Growth, development, and guidance of the adolescent in the home, family, and community.

4052 Families: Policy and Law (3) Prereq.: POLI 2051 or 2070 or HIST 3071 or GEOG 4001 or equivalent. Marriage and family as legal institutions; history and development of family law principles; overview of the public policy process; emphasis on family policy issues.

4055 Principles and Practices in Kindergarten Education (3) Prereq.: HUEC 3055 or PSYC 2076; 2.50 gpa required for registration; same as EDCI 4055. Classroom organization and instructional management using pre-academic objectives for the kindergarten as an entry point into the elementary school.

4057 Methods of Teaching Nursery School and Kindergarten (3) Prereq.: HUEC 3055 or PSYC 2076; 2.50 gpa required for registration; 2 hrs. lecture; 2 hrs. lab. Same as EDCI 4057. Essentials needed for successful involvement with children from various socioeconomic and cultural groups at the nursery/childergarten level; philosophy, teaching methods, and materials providing optimum learning experiences for the child under six.

4058 Student Teaching in the Kindergarten (5) Prereq.: prior application, EDCI/HUEC 4057, and credit or registration in EDCI/HUEC 4055 for undergraduates; credit or

registration in EDCI/HUEC 4055 for students with elementary certification. 40 hrs. practicum. 2.50 or better gpa required for registration. Same as EDCI 4058. Supervised experiences in planning and guiding children's activities in kindergarten programs for varied cultural groups and socio-economic levels.

4060 Organization and Administration of Early Childhood Programs (3) Prereq.: HUEC 2083 or consent of department. Historical, cultural, and philosophical foundations; finances, budgeting, staff duties, policies and legal aspects, equipment and physical plant, parent education and communication, public relations.

4062 Families and Consumer Law (3) Prereq.: HUEC 2061. Advanced study of federal and state "consumer bills," one's legal status as a family member; effectiveness of warranties and the judicial process regarding consumers' rights; responsibilities delegated to consumers.

4064 Family Stress Management (3) Prereq.: HUEC 2065 or consent of instructor. Strategies used by families to manage stress; current family stress management theory and research.

4065 Family Life Education (3) S Prereq.: Credit or concurrent enrollment in HUEC 3065. Overview of family life education history, philosophy, and topics; planning, implementation, and evaluation of family life education programs in diverse settings.

4067 Internship in Family, Child, and Consumer Sciences (8) Prereq.: HUEC 3090 and 4 cr. hrs. in HUEC 3067. 2 hrs. lecture; 12 hrs. practicum. For majors only, senior standing. Application must be made at the school one semester prior to proposed enrollment. Supervised professional observation and experience in child and family studies.

4381 Student Teaching: Practice and Reflection in PK/K (12) Prereq.: EDCI 3481, 3482, and 3483; concurrent enrollment in HUEC 4382. 4 hrs. lecture; 24 hrs. lab/field experience in multi-level, multicultural settings. Designed to partially fulfill student teaching requirements and to prepare students to be effective classroom teachers in PK/K settings.

4382 Critical Issues in Early Childhood Education (3) Prereq.: HUEC 2083 or consent of department. Historical and contemporary perspectives on developmental, sociocultural, and pedagogical issues in early childhood education.

7050 Research Seminar in Family, Child, and Consumer Sciences (1) May be taken for a max. of 2 hrs. of credit when topics vary. Reports and discussion of current literature and research.

7051 The Contemporary Family (3) Effects of change on family integration; adaptive responses in family lifestyles, roles, and relationships to political, social, and technological change.

7052 Topics and Issues in Family and Consumer Sciences (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Lectures and research on topics not covered in other family or consumer science courses.

7053 Infant Behavior and Development (3) Infant personality, development, and socialization; major transactions in the infant's life; family and home; child-care facilities and caregivers; support systems within larger societies.

7054 Child Guidance and Behavior (3) Prereq.: HUEC 7056 or consent of instructor. Normal, age-related behavior patterns; child guidance practices and their consequences; techniques and procedures for successful parenting and for improved classroom management; theoretical bases.

7055 Human Development (3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary. Dynamics of human development and practical implications.

7056 Theories of Child Development (3) Research and theory in child development; relation to the major domains in the child's ecology—child development, the family, services, and the environment.

7057 Theories in Family Science (3) Historical and contemporary theories and conceptual frameworks in family science.

7058 Adulthood and Aging (3) Prereq.: HUEC 4050 and 7051; or equivalent. The lifespan, with emphasis on adulthood; early and middle adulthood, and old age.

7059 Parent Involvement in Early Childhood Education (3) 2 hrs. lecture; 2 hrs. lab. Interpersonal relationships and involvement of parents in early childhood education programs; research and existing models of parent involvement.

7061 The Consumer in the Economy (3) Interrelationships among consumer knowledge and responsibility of the family, consumer legislation and protection, and competitive market processes.

7062 Family Financial Counseling (3) Personal, social, and legal climates affecting family financial decisions; skills designed to assist families to become self-sufficient in money management.

7063 Economics of Aging (3) Determinants and components of the financial status and economic well-being of the elderly household; income, investment, insurance, grants,

taxation, assets, time use, resource management, and techniques used to examine these components.

7065 Management of Family Resources (3) Individual and family resources, including identification and evaluation; principles of resources and management satisfaction for individuals and families.

7843 Early Childhood Education (3) See EDCI 7843.

HUMAN NUTRITION AND FOOD

General education courses are marked with stars (★).

1021 Dietetics as a Career (1) For dietetics majors only or by consent of instructor. Introduction to the dietetics major at LSU and the dietetic profession; strategies for future practice; development of a professional portfolio.

★ **2010 Nutrition in Health (3)** Prereq.: CHEM 1001 or 1201 or BIOL 1001 or 1201. Principles of nutrition and their application in promoting health; guidelines for assessing nutritional status; emphasis on the adult.

2014 Food Fundamentals (4) F,S Prereq.: credit or registration in HUEC 2010. 3 hrs. lecture; 3 hrs. lab. For majors and minors only or consent of instructor. Principles of food selection, preparation, and management.

2019 Nutrition Education and Counseling (3) S Prereq.: HUEC 2110. Not for teacher certification. Includes a service-learning component. Nutrition education and counseling skills needed for serving ethnically diverse individuals and groups.

2110 Methods of Nutritional Assessment (3) Prereq.: HUEC 2010. For nutritional sciences majors and minors only, or consent of instructor. Assessment of nutritional status including dietary intake, body composition, risks of chronic diseases and laboratory analysis using appropriate software, including interpretations of nutritional status indicators and practice of nutritional counseling for general risk reduction of chronic diseases.

3010 Nutrition and Wellness (3) F Prereq.: HUEC 2010 and BIOL 1202 or 2160 or KIN 2500 or equivalent. Relationship of life-style and wellness; consumer issues and their impact on health; counseling for change.

3012 Human Nutrition During the Life Cycle (3) F Prereq.: HUEC 2010 and BIOL 1202 or 2160; or permission of instructor. Nutritional needs during pregnancy, infancy, early childhood, adolescence, adulthood, and later years.

3019 Quantity Food Production and Management (3) F Prereq.: HUEC 2014, and credit or registration in BIOL 1011 or equivalent. Principles of quantity food procurement, production, distribution, and service; menu development; sanitation and safety; materials and resources management; distribution and service.

3021 Quantity Food Production Laboratory (2) Prereq.: credit or registration in HUEC 3019. 4 hrs. lab. Principles of quantity food production illustrated by demonstrations, observations, studies, and laboratories; use and care of quantity production equipment; sanitation and safety; materials and resources management; distribution and service.

3116 Public Health Nutrition (3) Prereq.: HUEC 2019, or consent of instructor. Public health policies and programs; and designing, assessing, implementing, and evaluating community nutrition programs.

4010 Human Nutrition (3) F Prereq.: grade of C or better in BIOL 2160 or 2153 and BIOL 2083 or 4087 or KIN 3515. Energy metabolism and the functions, requirements, and food sources of nutrients.

4011 Medical Nutrition Therapy I (3) F Prereq.: grade of C or better in BIOL 2160 or 2153 and in BIOL 2083 or 4087 or equivalent; HUEC 2110; credit or registration in HUEC 3012, 4010, or consent of instructor. Nutrition assessment and interpretation; drug/nutrient interactions; genetics and inherited diseases; biochemical and physiological changes that occur in dental, gastrointestinal, and absorption abnormalities that require clinical diet modification.

4013 Applied Medical Nutrition Therapy I (2) F Prereq.: HUEC 2019; credit or registration in HUEC 4011 or equivalent. 4 hrs. lab. Nutrition assessment; computer nutrient analysis; clinical diet modification relevant to biochemical and physiologic changes during inherited diseases; and dental, gastrointestinal, and absorption abnormalities that require clinical diet modification; emphasis on case studies.

4014 Medical Nutrition Therapy II (3) S Prereq.: a grade of C or higher in HUEC 4011, or consent of instructor. Biochemical and physiological changes that occur in food allergy, AIDS, and immunological disorders, weight abnormalities, diabetes, cancer, and disorders of the heart or kidney, that require clinical diet modification; nutritional needs during surgery, trauma, and burns.

4016 Cultural Food Patterns (3) S Prereq.: HUEC 2014, 2019; or consent of instructor. Cultural, religious, and historical influences on food, as it relates to nutrition, health, and diet counseling.

4017 Applied Medical Nutrition Therapy II (2) S

Prereq.: HUEC 4011, 4013, and credit or registration in HUEC 4014. 4 hrs. lab. Clinical diet modification relevant to food allergy, AIDS, and other immunological disorders, weight abnormalities, diabetes, cancer, and disorders of the heart or kidney; nutritional needs during surgery, trauma, and burns; quality assurance programs; emphasis on case studies.

4021 Contemporary Topics in Nutrition (1) Prereq.: CMST 2060 or 2010; enrollment limited to students with senior standing who are majoring or minoring in nutritional sciences. May be taken for a max. of 2 hrs. credit when topics vary. Oral presentations of independent library or other research on selected contemporary issues in food, nutrition, dietetics, or food systems.

4023 Management in Dietetics (3) S Prereq.: ACCT 2000; HUEC 3019; MGT 3200. Senior standing in dietetics major. Management theory and principles of planning, organizing, leading, and controlling; applications to food service systems, clinical dietetics, and community programs.

4027 Practicum in Dietetics (1-3) Prereq.: dietetics majors only; 60 hrs. in dietetics curriculum; overall gpa of 2.50; and permission of instructor. Each hour of credit requires 60 hours of supervised experience. May be taken for a max. of 3 hrs. of credit. Supervised professional experience designed to integrate academic learning with practice in dietetics.

4110 Capstone in Nutritional Sciences (3) S Prereq.: EXST 2201; HUEC 2019; credit or registration in HUEC 3116. Senior standing in nutritional sciences major. 2 hrs. lecture; 3 hrs. lab/field work. Research methods used in nutritional sciences; research project is included.

7001 Macronutrients (3) Nutritional aspects of protein, lipids, and carbohydrates; deficiencies, interrelationships, requirements, and metabolic pathways.

7002 Topics in Micronutrients (2) May be taken for a max. of 8 sem. hrs. of credit when the topic varies. An integrated system approach to the importance and functions of vitamins and minerals in nutrition. Epidemiological to molecular aspects discussed.

7004 Molecular and Clinical Nutrition I (2) F Prereq.: BIOL 4087 or 4094 or permission of the coordinator. The development of current concepts of nutritional effects on health and disease through the use of cellular/molecular tools.

7005 Molecular and Clinical Nutrition II (2) F Prereq.: HUEC 7004. The development of current concepts of nutritional effects on health and disease through the use of cellular, molecular, genetic, and epidemiologic tools.

7010 Food and Nutrition Seminar (1) F May be taken for a max. of 6 hrs. of credit when topics vary. Reports and discussion of current literature and research.

7011 Current Advances in Food and Nutrition (1-4) May be taken for a max. of 9 sem. hrs. of credit when topics vary. Recent research and developments in food, nutrition, dietetics, or food systems.

7017 Advanced Human Nutrition (3) F Prereq.: BIOL 4087 or 4093, or consent of instructor. Human requirements, evaluation of nutritional status, and problems related to kind and amount of food consumed.

7019 Advanced Medical Nutrition Therapy (3) S Prereq.: HUEC 4014 or equivalent or consent of instructor. Progressive, updated information on medical nutrition therapy and intervention strategies in specific clinical diseases; rationale for biochemical and physiological bases of diseases.

7094 Seminar in Nutrition (1) S Same as FDSC 7094. May be taken for a max. of 2 hrs. of credit. Prereq.: ANSC 7091, DARY 7091, FDSC 7071, HUEC 7010, PLSC 7091 or equivalent or previous slide (not poster) presentation at a professional meeting.

TEXTILES, APPAREL, AND MERCHANDISING

2032 Introductory Apparel Design (4) Prereq.: majors only or permission of instructor. 2 hrs. lecture; 4 hrs. lab. The design process; art elements and principles applied to aesthetic, functional, and structural design of textile and apparel products; introduction to fashion illustration and computer-aided design.

2037 Apparel Structure and Fit (4) Prereq.: for students in the Apparel Design concentration only or consent of instructor; credit for or registration in HUEC 2041. 2 hrs. lecture; 4 hrs. lab. Fundamental principles of garment assembly and the relationships between garment design, fabric characteristics, and production processes; analysis of fit; alterations.

2040 Textile Science (3) F,S Basic physical, biological, and chemical characteristics of fibers, yarns, and fabrics; selection, maintenance, and performance of textiles.

2041 Textile Science Laboratory (1) F,S Prereq.: credit or registration in HUEC 2040. 3 hrs. lab. Introduction to

basic physical and chemical testing of textiles.

2044 Early Experience in the Textile/Apparel Industry (1) 4 hrs. practicum; 32 hrs. of supervised experience. Pass-fail grading. Pre-internship work in a component of the textile/apparel industry. Arranged on individual basis for students with limited or no industry experience.

2045 The Fashion Industry (3) F,S Interrelationships of design, production, and distribution; historical aspects and cyclical nature of fashion.

3030 Field Study in Textiles, Apparel, and Retailing (3) May be taken for a max. of 6 hrs. of credit when field site varies. 2 hrs. lecture; 3 hrs. lab. Offered through Continuing Education. 28 hrs. of on-campus seminars. Fee to cover expenses. Structured educational experiences in major industry centers in the U. S. and abroad.

3032 Textile and Apparel Product Development (3) Prereq.: HUEC 2040, 2045. Processes and issues related to development of textiles and apparel products for consumers.

3037 Intermediate Apparel Product Design (4) Prereq.: HUEC 2037. 2 hrs. lecture; 4 hrs. lab. Principles and application of two-dimensional or flat pattern design; development of foundation blocks for use in designing various garment styles and details; conceptualization and execution of original garment design.

3042 Apparel Merchandise Buying and Management (3) Prereq.: majors only; HUEC 2045 and MATH 1022, MATH 1431 or EXST 2201. Concepts and theories in apparel buying and management; role and responsibilities of merchandise buyers; domestic and foreign merchandise resources and negotiation.

3043 Apparel Merchandising Strategies and Assortment Planning (3) Prereq.: majors only; HUEC 3042 and computer literacy; 2 hrs. lecture; 2 hrs. lab. Assortment planning and sales strategies; advanced quantitative concepts and procedures used in apparel buying; management and interpretation of data related to merchandising and sales.

3045 Visual Merchandising and Promotion Strategies (3) Prereq.: HUEC 2045. Display elements and techniques; visual merchandising; special events strategies; public relations; Internet promotions.

3230 Pattern Design with Computer Application (4) S Prereq.: HUEC 3037. 2 hr. lecture; 4 hrs. lab. Application of two-dimensional pattern making principles to varied garment styles and details; design and execution of original garment design; introduction to proprietary computer software.

3232 Apparel Design Studio (3) Prereq.: HUEC 2032, 2037, ART 1847 or 1848. 1 hr. lecture; 4 hrs. studio. Fashion illustration techniques; adaptation of inspirational themes to designs for diversified apparel markets; pre-portfolio development; use of an industry-specific CAD system.

4034 Textile and Apparel Product Evaluation (3) F,S Prereq.: HUEC 2041. 2 hrs. lecture; 2 hrs. lab. Fabric and apparel structure and their relationships to performance and end-use characteristics; textile and apparel product standards and specifications; standard test methods for evaluating physical, aesthetic comfort, performance, and functional aspects.

4037 Advanced Apparel Product Design (4) Prereq.: HUEC 3230. 2 hrs. lecture; 4 hrs. lab. Principles and application of three-dimensional pattern design.

4041 History of Textiles (3) S-O Cultural, functional, and technological developments of textiles by selected periods and countries.

4043 Advanced Textiles (3) F Prereq.: HUEC 2041. 2 hrs. lecture; 2 hrs. lab. Characteristics of natural and manufactured textile fibers; physical and chemical modifications to meet consumer needs; textile dyes and finishes; methods of fiber identification and chemical testing of textiles.

4044 Global Textile and Apparel Economics (3) F Prereq.: HUEC 3032, ECON 2030. Application and analysis of economic concepts and principles associated with the textiles and apparel industry; overview of global economics and contemporary trade policy.

4045 Synthesis: Textile and Apparel Product Processes (3) S Prereq.: HUEC 4037. 1 hr. lecture; 4 hrs. lab. Multi-functional team approach to creative problem solving; apparel product design, development, evaluation, and presentation using advanced pattern making techniques and technology.

4046 Advanced Topics in Apparel Merchandising (3) F Prereq.: HUEC 3032 and 3043. Application of principles of product development, buying and management of apparel merchandise; current industry issues and trends; emphasis on theory and policy related strategies.

4047 Internship in Textiles, Apparel, and Merchandising (3 or 6) Su Prereq.: gpa of at least 2.30 on all HUEC classes taken at LSU and permission of department; participation in orientation workshop prior to enrollment. MKT 3401. Merchandising concentration: credit in HUEC 3043 and 3045; apparel design concentration: credit in HUEC 3045, 3230, and 3232.; textile science concentration: HUEC 4043.

Each hour of credit requires 40 hrs. of supervised experience. Not for graduate credit. May be taken for a max. of 9 sem. hrs. of credit. Supervised professional experience designed to integrate academic learning with professional practice.

4070 Entrepreneurship in Human Ecology (3) S Prereq.: MKT 3401. Application of principles of entrepreneurship with an emphasis on home-based and/or microbusinesses; case studies of successful entrepreneurs.

4071 History of Dress and Adornment Prior to 1700 (3) Emphasis on styles of western civilization; how dress functions for individuals within culture and society; relationships of gender, environment, technology, economics, religion, and aesthetics to dress.

4072 History of Dress and Adornment After 1700 (3) Emphasis on styles of western civilization; how dress functions for individuals within culture and society; relationships of gender, environment, technology, economics, religion, and aesthetics to dress.

4078 Consumer Behavior in Fashion (3) Study of dress and appearance with emphasis on cultural, aesthetic, psychological, and marketing aspects. Meanings of dress and appearance, creation and diffusion of fashion and consumer culture, consumer characteristics, and fashion implications.

4232 CAD for Textiles and Apparel (3) Prereq.: HUEC 3232. 1 hr. lecture; 4 hrs. lab. Application of computer-aided design technology to the design and presentation of textile and apparel collections.

7031 Social-Psychological Theories of Dress, Appearance, and Fashion (3) S Examination and analysis of interdisciplinary and theoretical approaches to dress, appearance, and fashion as a social and economic force.

7032 Comparative Studies in Dress and Culture (3) F Also offered as ANTH 7032. Relationship between people and dress in different cultural settings, e.g., environment, religion, ethnicity, gender, and aesthetics; impact of cultural change and western culture on world dress, ethnic, and folk traditions in dress.

7035 Textile Manufacturing (3) Prereq.: HUEC 4043; and one 7000-level statistics course. In-depth study of mass production of textiles, with a detailed analysis of manufacturing technology, quality control methods, and end-use performance evaluation and application.

7036 Apparel Merchandising and Global Expansion (3) Internationalization of apparel merchandising; examination of theoretical foundations, principles, and applications within select international settings; development of international apparel merchandising strategies; assessment of global issues that affect apparel merchandising.

7037 Consumer Behavior in the Apparel Merchandising Environment (3) Examination of consumer behavior theories and their applications to apparel purchase and patronage decisions and merchandising research.

7040 Bio-based Composites: Production and Evaluation (3) Bio-based material products and applications, with case studies to illustrate end-use evaluation of related agricultural materials.

7041 Introduction to Research in Textiles, Apparel Design, and Merchandising (3) F Introduction to research and literature in textiles, apparel design, and merchandising.

7042 Research in Textiles (3) 1 hr. lecture; 4 hrs. lab. Research methods applied to fabric analysis and testing; trends and recent developments.

7043 Seminar: Textiles, Apparel Design, and Merchandising (1) "S/U" grading. May be taken for a max. of 3 hrs. of credit if topics vary. Reports and discussion of current literature and research.

7044 Selected Topics in Textiles, Apparel Design, and Merchandising (3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary. Analysis and discussion of selected research and creative topics.

7046 Microscopy of Fibers and Polymers (3) Analysis and characterization of fibers and polymers using microscopical techniques; emphasis on textile fibers and fabrics, including modern, historic, and archaeological specimens.

7047 Modern Fiber Science and Technology (3) 2 hrs. lecture; 2 hrs. lab. New techniques for obtaining fiber forming polymers derived from renewable resources, such as lyocell and plant derived polyesters; examination of polymeric materials used for the development of high performance fibers for space and other industrial applications.

7048 Thermal Characterization of Fibers and Polymers (3) 2 hrs. lecture; 2 hrs. lab. Analysis and characterization of fibers and polymers using thermal, thermo-electrical, and thermo-mechanical techniques; examination of textile fibers and fabrics including bio-derived materials and classical specimens.

7049 Advanced Individual Field Experience In Textiles, Apparel Design, and Merchandising (3) Prereq. or Coreq.: HUEC 7091; or consent of instructor. May be taken for a max. of 6 hrs. of credit. Advanced individual, supervised, field-based study in selected areas of textiles, apparel design, and merchandising; emphasis on analysis, synthesis and application of research data and contemporary practices

within selected businesses, industries, agencies and institutions.

7518 Studies in American and European Dress (3) See also THTR 7518. May be taken for a max. of 6 sem. hrs. of credit when topics vary.

7519 Seminar in American Dress: 18th Century to 1880 (3) See THTR 7519.

7520 Seminar in American Dress: 1880 to the Present (3) See THTR 7520.

HUMAN RESOURCE EDUCATION • HRE

1000 Keyboarding (1) 2 hrs. lab. Presentation of the complete keyboard; keyboarding using the "touch" system; emphasis on correct keystroking using proper techniques; introduction to simple letter styles, tabulations, manuscripts, and simple business forms.

1001 Industrial Engines: Maintenance and Repair (3) V 6 hrs. lab. Design, construction, operation, and maintenance procedures of industrial engines, including electrical, cooling, lubricating, and fuel systems.

1003 Keyboarding Applications and Document Processing (2) Prereq.: HRE 1000 or equivalent. 1 hr. lecture; 2 hrs. lab. Students are expected to be familiar with Microsoft Word or other word processing software packages. Students are also expected to know how to navigate in a document, select text, edit text, print documents, and understand the basics of using email. Offered through correspondence study only. Applying basic skills to the formatting of letters, reports, tables, memos, and other kinds of personal and business communications.

2000 Document Production (3) Prereq.: HRE 1003 or equivalent. 2 hrs. lecture; 2 hrs. lab. Application of advanced word processing functions to the production of letters, documents, and reports; specialized documents and terms (legal, medical, technical); emphasis on production skills.

2001 Foundations of Human Resource Education (3) F 2 hrs. lecture; 2 hrs. lab. Foundation of the economic, sociological, and political influences on the historical development of workforce education; organization and delivery of workforce education programs and practices at the secondary and post-secondary levels.

2008 Individual Field Experience in Occupational Home Economics (1-3) Prereq.: consent of instructor. A max. of 3 sem. hrs. of credit may be earned in each occupational area. Pass-fail grading. Individual, supervised, field-based study in selected businesses and industries; emphasis on business practices, procedures, and regulations in a specific occupational home economics area.

2012 Woodworking Technology (3) V 6 hrs. lab. Advanced machine tool operations, job procedures, design and finishing.

2022 Advanced Metals (3) V 6 hrs. lab. Founding, forging, heat treatment, and machine tool work.

2030 General Electricity (3) V 6 hrs. lab. Fundamental principles of electricity; direct and alternating currents.

2031 Basic Electronics (3) V 6 hrs. lab. Basic electronic principles and circuitry as applied to diodes, vacuum tubes, power transformers, inductors, capacitors, resistors, and rectifiers.

2040 Technical Drawing, Reading, Sketching, and Takeoff (3) V 1 hr. lecture; 4 hrs. lab. Blueprint reading of the mechanical and building trades; freehand shop sketching, materials takeoff, and estimating.

2041 Industrial Crafts (3) V 6 hrs. lab. Techniques of art metalwork, plastics, and leather-craft.

2045 Fundamentals of Air Conditioning and Refrigeration (3) V 1 hr. lecture; 4 hrs. lab. Principles, parts, components, functions, and application of air conditioning and refrigeration systems; problems in equipment performance, operation, inspection, repair, and maintenance.

2053 Occupational Safety (3) F,S Identification of accident-producing conditions and practices in plant facilities, materials handling, machine safeguarding, hand tools, and occupational health.

2070 Business Communication (3) Prereq.: ENGL 2000. Communication theory and its application to business; basic forms of business communication.

2620 Practicum in Business and Office Education (2) One-hour weekly seminar with instructor to discuss topics relative to student's job. Actual office experience of at least 10 hrs. per week providing on-the-job training in a clerical, secretarial, or bookkeeping position.

2621 Practicum in Distributive Education (2) One-hour weekly seminar with instructor to discuss topics relative to student's job. Students work at least 10 hrs. per week in a selling position in an approved retail establishment.

2723 Introduction to Leadership Development (3) F An honors course, HRE 2724, is also available. Introduction to leadership and leadership development; emphasis on

students understanding their personal traits, values, characteristics, and development tasks as a foundation for leadership development.

2724 HONORS: Introduction to Leadership Development (3) F Prereq.: Honors College students only. Same as HRE 2723 with special honors emphasis.

3000 Word Processing (3) Prereq.: HRE 2000 or equivalent. 2 hrs. lecture; 2 hrs. lab. Word processing concepts and skills, systems, procedures, equipment, and careers.

3010 Internship in Cooperative Extension Service (6) Su only Open to selected students completing their junior year who are considering a career with the cooperative extension service. Seven-week period of study, observation, and practicum in a parish Louisiana Cooperative Extension Service office plus a 2-week period of classes in extension education. Permission of instructor.

3043 Industrial Arts for Elementary Teachers (3) V 1 hr. lecture; 4 hrs. lab. Organization and construction of hand-crafts activity units and methods of correlating with subject matter of elementary grades.

3055 Occupational Analysis Techniques (3) V Essential elements of an occupation or activity identified for purposes of job classification and instruction.

3061 Industrial Supervisory Practice (3) V The supervisor as a key person in the industrial organization; duties, responsibilities, and successful supervisory practices.

3062 Principles of Industrial Training (3) V Functions of a training department, duties and responsibilities of a director, and teaching methods used to develop goals of teamwork and production in business and industry.

3065 Industrial Safety Management (3) V Prereq.: HRE 2053 or equivalent. Management practices applied to loss prevention and control; analysis of loss prevention programs; certification, professional ethics; functions of the safety professional.

3068 Fire Prevention and Protection (3) V Prereq.: HRE 2053 or equivalent. Science of controlling fire potentials and methods of extinguishment.

3071 Principles of Human Resource Development (3) S A comprehensive introduction to the field, principles, profession, and practice of Human Resource Development (HRD) Training and Development.

3101 Instructional/Curriculum Design for Human Resource Education (3) V Curriculum, course unit, and lesson plan development in human resource; selection and evaluation of course materials.

3171 Instructional Design for Training (3) S Prereq.: HRE 3071. Principles and practices of instructional design for developing effective training; course, unit, and lesson development.

3200 Records Management (3) Principles of records creation, retention, transfer, and disposal; organization and management of stored records; coding, microfilming, and retrieval of information; manual, mechanical, and computer means of storing and retrieving information.

3201 Presentation Methods in Human Resource Education (3) S Recognized methods of group presentation and individual training.

3271 Leading Learning in Human Resource Development (3) S Prereq.: HRE 3071. Introduction to the principles and practices of instructional delivery strategies to facilitate learning in training and development; methods for leading learning in traditional classroom training; on-the-job training; small group learning; and individual learning.

3331 Strategic Career Development/Planning (3) Prereq.: Sophomore standing or higher or consent of instructor. Career development and planning through career decision-making, networking and linking personal competencies to organizations. Applying skills required for a successful job search and making the transition from college to work.

3400 Office Management (3) Facilitating office work through management of environment, organization, communication, personnel, systems, productivity, and cost factors.

3500 Administrative Assistant Procedures (3) Prereq.: HRE 2000 or equivalent. Responsibilities of administrative support personnel; skills needed for supervision, decision making, and human relations; planning, organizing, and disseminating information.

3571 Needs Analysis in Human Resource Development (3) F Comprehensive introduction to the principles and practice of needs assessment and performance analysis for Human Resource Development (HRD) Training, and Development and Adult Education.

3603 Classroom Management in Human Resource Education (1) V Prereq.: concurrent enrollment in HRE 3604 and HRE 3605. Managing the human resource education classroom; emphasis on student behavior; techniques for preventing, diagnosing, and handling student discipline problems.

3604 Human Diversity in Learning in Human Resource Education (1) V Prereq.: concurrent registration in or credit

for HRE 3603 and HRE 3605. This course strives to better prepare today's teachers/trainers to achieve their goals of delivering an effective education to diverse students who are living in a complex, interdependent world. Each of the various diversities addressed in this course mediate one another and do not act in isolation, which further complicates an educator's task, but is nonetheless critical to an understanding of classroom interaction.

3605 Field Experiences in Human Resource Classroom Management (1) V Prereq.: concurrent registration in or credit for HRE 3603 and 3604. The purpose of this field experience is to provide direct experiences to increase understanding of learning process and apply skills for facilitating the process. The course provides detailed guides for observing the dynamics of the classroom and community, participating with the classroom teacher, and then reflecting on the experience. Motivation, classroom management, and teaching strategies are the focus areas of the experience.

3723 Leadership Concepts and Principles (3) F An honors course, HRE 3724, is also available. Survey of leadership theory, concepts, and research; emphasis on understanding the foundational concepts of modern leadership.

3724 HONORS: Leadership Concepts and Principles (3) F Prereq.: Honors College students only. Same as HRE 3723 with special honors emphasis.

4001 History of Human Resource Education (3) V Events and organizations that contributed to the development of workforce education.

4003 Independent Reading and Research in Home Economics Education (1-3) Prereq.: consent of director and instructor. May be taken for a max. of 3 sem. hrs. of credit. Students are responsible for registering with a faculty member with whom they will select the area of reading and research. Faculty-directed individual study.

4007 Organization and Administration of Home Economics Occupational Programs (3) Prereq.: HRE 2001 or equivalent. Principles of operating Home Economics Related Occupational (HERO) programs; emphasis on developing student employability in wage earning areas of home economics; includes program standards, requirements and procedures, curriculum, public relations, teaching materials, and evaluation of preparatory (in-school laboratory) and cooperative home economics programs.

4008 Advanced Individual Field Experience in Occupational Home Economics (1-3) Prereq.: consent of instructor. A max. of 3 sem. hrs. of credit may be earned in each occupational area. Pass-fail grading. Advanced individual, supervised, field-based study in selected businesses and industries to learn management strategies, personnel supervision, promotion techniques, and executive planning in a specified occupational home economics area.

4010 Cooperative Extension Work (3) V History, objectives, organization, relationships, and teaching processes in cooperative extension.

4011 Communications in Extension Education (3) F Synthesis and application of concepts and principles of communication in the extension educational program.

4025 Principles of Adult Education (3) S Nature and importance of adult education; social and psychological factors affecting adult motivation and learning; techniques for providing adult learning experiences.

4026 Informal Education Programs for Youth (3) S Organization, leadership, and evaluation of informal youth education programs.

4039 Topics in International Development (3) May be taken for a max. of 6 hrs. credit when topics vary. Issues related to international development; emphasis on extension and nonformal education programs in third world countries.

4067 System and Product Safety (3) Prereq.: HRE 3065. Application of system safety analysis and product safety methodologies to contemporary loss prevention programs.

4068 Regulatory Considerations in Occupational Safety (3) V Major legislation affecting the occupational safety and health field; Occupational Safety and Health Act (OSHA), Worker Compensation laws, Consumer Product Safety Act (CPSA), and Mine Safety and Health Act (MSHA).

4069 Principles of Industrial Hygiene (3) V Prereq.: HRE 2053 and BIOL 2160; or equivalent. Industrial hygiene related to environmental factors that produce adverse employee health.

4070 Teaching: Construction Industries (3) V An activity-oriented, conceptually based teacher education curriculum, incorporating methods and materials of *The World of Construction* as developed by the Industrial Arts Curriculum Project.

4077 Development of Agriculture in America (3) V Organization and development of agriculture in America from colonial times to the present.

4079 Foundations of Human Resource Development (3) F Comprehensive introduction and overview to the field, profession, theoretical foundations, and practice of Human Resource Development (HRD).

4080 Teaching: Manufacturing Industries (3) V An activity-oriented, conceptually based teacher education curriculum, incorporating methods and materials of *The World of Manufacturing* as developed by the Industrial Arts Curriculum Project.

4150 Teaching Cooperative Education (3) V Organization and administration of cooperative education programs in public secondary education; historical foundations; relevant federal legislation.

4200 Teaching in Human Resource Education Content Areas (3) S Prereq.: HRE 2001, 3101, and 3201. Teaching human resource education in the formal classroom; emphasis on content area, selection of materials, and planning instruction.

4201 Management of Human Resource Education Laboratory Experiences (3) V Prereq.: HRE 2001, 3101, and 3201. Preparation, organization, and evaluation of human resource education laboratory experiences.

4252 Instruction and Information Technology (3) V 2 hrs. lecture; 2 hrs. lab. Broad introduction to the vast array of information technologies as well as a survey of the global, ethical, political, cultural, social, and environmental issues raised by information technology; building skills in integrating information technologies into a workforce curriculum.

4281 Foundations of Distance Learning (3) V Prereq.: HRE 3101 or 3171. Overview of the theories, models, and systems of distance learning; focus on understanding the foundations of distance learning, the design and delivery methodologies, and the role of the instructor and learner.

4283 Advanced Distance Learning Strategies (3) V Prereq.: HRE 4281 or permission of instructor. Overview of the theories and practices surrounding online interaction environments; focus on understanding the community development and sustainability required for success online learning.

4301 Assessment, Career Development, and Productivity (3) F Assessing present and future needs of the human resource education student; procedures used to evaluate student preferences, career potential, and occupational placement.

4464 Adult and Nonformal Home Economics Education (3) 2 hrs. lecture; 2 hrs. lab. Working with adults and youth in community agencies and other programs with clientele outside the formal school system.

4504 Youth Leadership Development (3) V Principles and practices in planning, organizing, and conducting youth organization activities.

4571 Technology in Human Resource Development (3) V Survey of the use of computer, information and telecommunication technology in human resource development; emphasis on the analysis, design, development, implementation, evaluation, and management of human resource development technology intervention in the workplace.

4573 Managing the Human Resource Development Function (3) Su Study of human resource development (HRD) in organizations with employees on practical application of principles for effective leadership, management, and administration of the HRD function.

4575 Ethical and Legal Issues in Human Resource Education (3) V Ethical and legal issues and problems faced by human resource development professionals practicing in public and private sector organizations.

4579 Training in Global Organizations (3) F Introduction to the problems, practices, and models of cross-cultural competence and cross-cultural training; focus on the nature, content, and function of cross-cultural training in organizations.

4585 Consulting in Organizations (3) V Practical look at the skills to be an effective internal or external consultant in organizations; emphasis on consulting process rather than any specific area of consulting expertise.

4601 Workforce Education Learner Assessment (3) Assessment of progress of workforce education students in psychomotor, cognitive, and affective skills.

4603 Evaluation in Human Resource Development (3) F Prereq.: HRE 3071. Comprehensive introduction to the principles and practice of training program evaluation.

4704 Time Management Techniques in Human Resource Education (3) S Methods of planning and procedures for using time efficiently in conducting the human resource education program.

4705 Education, Business, and Entrepreneurship (3) V Principles and strategies involved in establishing and operating small businesses; emphasis on resources available to aid the educator in bridging the gap between business and entrepreneurship.

4723 Advanced Leadership Development (3) S Prereq.: HRE 2723 and 3723. An honors course, HRE 4724, is also available. Focus on developing the leadership skills students need to effectively lead organizations and communities to achieve their vision and goals.

- 4724 HONORS: Advanced Leadership Development (3) F** Prereq.: HRE 2724 and 3724; Honors College students only. Same as HRE 4723 with special honors emphasis.
- 4801 Teaching Internship: Professional (3) V Prereq.:** concurrent registration in HRE 4802 and 4803. Permission of instructor. Not for graduate credit. Professional responsibilities; teacher association work; teacher, parent, and student organization activities; school visits and certification.
- 4802 Internship: Preparation (3) V Prereq.:** concurrent enrollment in HRE 4801 and 4803. Permission of instructor. Not for graduate credit. Evaluation of student's ability to operate and maintain an instructional laboratory; development of curriculum materials for organizing and evaluating the teaching environment.
- 4803 Internship: Delivery (3) V Prereq.:** concurrent enrollment in HRE 4801 and 4802. Permission of instructor. Not for graduate credit. Evaluation of the student's lesson preparation, demonstration ability; laboratory organization, participation in class activities, and evaluating teaching environment.
- 4804 Professional Development Internship (3-12) F,S,Su** May be taken for a max. of 12 sem. hrs. of credit. Not for graduate credit. Permission of instructor. Students are mentored in the business community as they learn various skills that would make them highly employable.
- 4805 Making the Transition from College to Work (1)** Course is taken in conjunction with an internship, practicum, or other work experience. Introduction to the skills needed to successfully make the transition from college to career life; emphasis on the skills needed to quickly learn how to be a top performing new employee and avoid typical mistakes college graduates make as new employees.
- 4806 Student Teaching in Human Resource Education (9) V Prereq.:** Permission of instructor. Not for graduate credit. Professional responsibilities including developing instructional plans and materials; delivering instruction in classroom, laboratory, and field environments; organizing and operating instructional laboratories; participating in professional associations; planning and conducting teacher/parent/student organization activities; conducting school observational visits; completing teacher certification requirements.
- 4807 Teaching Internship in Human Resource Education (6) V Prereq.:** Permission of instructor. Professional responsibilities including developing instructional plans and materials; delivering instruction in classroom, laboratory, and field environments; organizing and operating instructional laboratories; participating in professional associations; planning and conducting teacher/parent/student organization activities; conducting school observational visits; completing teacher certification requirements.
- 4809 Advanced Problems in Human Resource Education (1-3) F,S,Su** May be taken for a max. of 6 sem. hrs. credit. Permission of instructor. Individual and group problems.
- 4819 Special Topics in Agricultural Education (1-3) V** May be taken for a max. of 6 sem. hrs. of credit when topics vary. Individual and group study of selected topics under the direction of a faculty member.
- 4849 Special Topics in Industrial Education (1-3) V** May be taken for a max. of 6 sem. hrs. credit. Permission of instructor. Current practices and technological advances in industrial education; individual or group study under the direction of a faculty member.
- 4859 Special Topics in Business Education (1-3) V** May be taken for a max. of 6 sem. hrs. of credit when topics vary. Permission of instructor. Individual and group study of selected topics under the direction of a faculty member.
- 4869 Special Topics in Home Economics Education (1-3) Prereq.:** consent of instructor. May be taken for a max. of 6 sem. hrs. of credit. Current practices and technological advances in vocational home economics.
- 7001 Principles of Human Resource Education (3) V** Principles of workforce education and development programs conducted by business, industry, government, and educational institutions at all levels; relationships to adult education, career/technical education, human resource development, career development, general education, and society.
- 7003 Philosophy of Human Resource Education (3) F** Major philosophies that have influenced human resource education; philosophical approaches to problems in human resource education.
- 7016 Foundations of Agricultural Education (3) V** Events and organizations that contributed to the development of agricultural education.
- 7024 Comparative Extension Education (3) S Prereq.:** HRE 7222 or equivalent. Comparative analysis of systems of extension education on a world-wide basis.
- 7025 Advanced Adult Learning Theory and Practice (3)** Advanced study of adult learning theory and research; emphasis on learning theory and research in adult learning with implications for adult learning practice.
- 7041 Foundations of Industrial Education (3) V** History and philosophy of industrial arts/technology education and vocational trade and industrial education.
- 7056 Foundations of Business Education (3) V** Historical foundations; relevant state and federal legislation; organization and administration of business education in public secondary education.
- 7101 Advanced Instructional/Curriculum Design in Human Resource Education (3) V** Introduction to the theory, principle, research, and practices that contribute to the knowledge base of curriculum development and instructional design in human resource education.
- 7112 Program Development in Agricultural Education (3) V** Development of curriculum; organization and use of committees; organization of facilities; utilization of the FFA in instruction.
- 7122 Program Development (3) F** Concepts relating educational planning, planned change, and social change to development of effective extension education programs.
- 7142 Program Development in Industrial Education (3) V** Program research, development, evaluation, and implementation.
- 7162 Program Development in Home Economics Education (3) V** Principles and applied practices in developing programs in home and family life education for multicultural groups.
- 7171 Instructional Design for Human Resource Development (3) S** Comprehensive introduction to the theory, principles, research, and practices of instructional systems design (ISD) in human resource education (HRD) and training.
- 7201 Advanced Teaching Techniques in Human Resource Education (3) F,Su-O** Principles underlying the human resource teaching/learning process; use of effective human resource teaching methods and strategies.
- 7202 Systems of Teaching and Learning Styles (3) V** Analyzing how individuals perceive and process information; interrelationships with personality, leadership, management, supervision, administration; applications in education, business, industry, formal and nonformal settings.
- 7203 Discipline in Human Resource Education (3) Su** Prevention, recognition, and handling of classroom discipline problems; emphasis on models of discipline and development of a personal philosophy of discipline.
- 7205 Teaching in Higher Education (3) F,S** Methodology for effective college teaching; student motivation; planning for instruction, delivery, and evaluation.
- 7213 Pedagogical Advances in Agricultural Education (3) V** Developments in education; their impact on agricultural education.
- 7218 Teacher Education (3) V** Development and functions of the comprehensive agricultural teacher education program.
- 7222 Principles and Practices of Extension Education (3) S Prereq.:** HRE 7122 or equivalent. Learning and teaching concepts applied in the execution of an extension educational program.
- 7242 Programmed Instruction (3) V** Principles of programmed instruction; emphasis on methods and application of instruction and development of materials.
- 7255 Improvement of Instruction in Keyboarding, Word Processing, Shorthand, and Clerical Practices (3) V** Techniques and strategies related to the teaching of clerical skills.
- 7256 Improvement of Instruction in General Business, Accounting, and Bookkeeping (3) V** Techniques and strategies related to the teaching of accounting and general business.
- 7271 Leading Learning in Human Resource Development (3) S** Principles, research, and practices of facilitating learning in human resource development (HRD) including facilitation skills for traditional classroom training, as well as informal work-based learning strategies.
- 7301 Orientation to the World of Work (3) V** See ELRC 7301.
- 7304 Human Resource Education for Special-Needs Students (3) Su** Regulations, issues, assessment, instruction, and special problems in human resource education for learners with special needs.
- 7332 Educational and Occupational Information (3) V** Also offered as ELRC 7332. Classification and analysis of educational, occupational, and social information; occupational trends and surveys; use of occupational information by teachers, guidance counselors, and others.
- 7334 Vocational Counseling (3) V** See ELRC 7334.
- 7392 Advanced Vocational Counseling (3) V** See ELRC 7392.
- 7398 Field Experiences in Vocational Counseling (3) V** See ELRC 7398.
- 7401 Administration of Adult Human Resource Education Programs (3) S** Role of adult education as a component of vocational education in contemporary society; program conceptualization, needs assessment, program initiation, development, financing, administration, and evaluation.
- 7414 Androgogy in Agricultural Education (3) V** Principles and practices in conducting the adult agricultural education program.
- 7571 Performance and Needs Analysis in Human Resources Development (3) F** Theory and principles used in the analysis of performance problems in organizations; emphasis on the application of performance theory and use of tools and techniques for analyzing organizational, process, and individual level performance problems.
- 7573 Strategic Human Resources Development for Global Organizations (3) V** The phenomenon of globalization and its impact on the problems, practices, programs, theories, and methodologies used by human resource development to improve performance in work systems.
- 7575 Managing Change in Organizational Systems (3) S** Introduction to the theory, methods, and practice of organization change and development; emphasis on the role of the HRD practitioner as change agent and the interventions used to lead and manage organization change.
- 7602 Program Evaluation Design (3) S** Systematic application of social research procedures for evaluating the conceptualization, design, implementation, and utility of vocational educational programs.
- 7622 Evaluation Methods (3) F** Concepts and principles of evaluation applied to programs in extension education.
- 7662 Program Improvement in Home Economics Education (3)** Principles and procedures for evaluating and improving home economics programs for diverse groups.
- 7701 Organization and Administration of Workforce Education (3) V** Principles of organization, leadership, and administration; development of skills needed for effective workforce education leadership.
- 7702 Supervision in Human Resource Education (3) Su-E** Principles of supervision in workforce teaching at local and state levels.
- 7703 Supervision of Professional Field Experiences in Human Resource Education (3) V** Philosophy, principles, and procedures in supervision of student teaching in human resource education.
- 7716 Organization, Administration, and Supervision of Agricultural Education (3) V** Theory, principles, and practices of organization and supervision of vocational teaching.
- 7723 Leadership and Organization (3) S** Application of relevant principles from leadership theory, group dynamics, social organization, and organizational administration to problems of organizing extension education programs.
- 7725 Leadership Development Strategies in Organizations (3) V** Introduction to the major strategies used for developing leaders in organizations; emphasis on learning theories for leadership development, formal training strategies, development through job experience, feedback intensive programs, and skill-building programs.
- 7741 Administration and Supervision of Vocational Trade and Industrial Education (3) V** Philosophical, theoretical, and operational considerations in administering and supervising secondary and post-secondary vocational trade and industrial education programs and staff.
- 7766 Home Economics in Higher Education (3)** Goals and objectives of home economics; program development; roles and responsibilities of faculty.
- 7801 Current Problems and Issues in Human Resource Education (1-3) F,S,Su** Prereq.: permission of instructor. Legislative, societal, and educational concerns affecting workforce education.
- 7803 Independent Study in Human Resource Education (1-3) F,S,Su** Permission of instructor. May be taken for a max. of 3 sem. hrs. credit when topics vary. Faculty directed study of relevant topics in workforce education.
- 7805 Seminar in Human Resource Education (1-6) F,S,Su** May be taken for a max. of 6 sem. hrs. credit when topics vary. Selected topics of interest to human resource education.
- 7809 Practicum for the Human Resource Educator (3-9) F,S,Su** Prereq.: permission of instructor. Practical experience under the guidance of practicing vocational educators in various educational settings.
- 7812 Technological Advances in Agricultural Education (3) V** Scientific developments in agriculture; their impact on programs in agricultural education.
- 7816 Advanced Agricultural Education Seminar (1) V** May be taken for a max. of 3 hrs. of credit. A minimum of 1 sem. hr. required at master's level; minimum of 2 sem. hrs. required at the doctoral level. Current professional educational problems in vocational agriculture.
- 7822 Advanced Extension Education (3) S** Integration of relevant concepts, principles, and research findings in program development, leadership and organization, learning and teaching, and evaluation.
- 7824 Independent Study in Extension Education (3)** May be taken for a max. of 6 hrs. of credit. Permission of

instructor. Independent study under the guidance of the graduate faculty.

7826 Seminar in Extension Education (1) V May be taken for a max. of 2 hrs. of credit. Pass-fail grading.

Student-faculty exchange of ideas on research and issues.

7848 Special Topics in Industrial Education (1-3) V May be taken for a max. of 6 sem. hrs. Permission of instructor.

Independent or group study under the direction of the graduate faculty.

7862 Current Problems in Home Economics Education (3) V Study of social, legislative, and educational problems.

7866 Seminar in Home Economics Education (1) V May be taken for a max. of 4 sem. hrs. of credit. Research reporting and topics of current interest.

7871 Research and Theory in Human Resource Development (3) Doctoral seminar. The role of theory in human resource development practice and research, theory-building methodologies, and key foundational theory and research in human resource development.

7873 Advanced Theory in Human Resource Development (3) S Doctoral seminar. Contemporary theory, research, and leading issues in the field of human resource development.

7901 Scientific Methods in Human Resource Education (3) V Principles involved in formulating educational problems, hypotheses, research strategies; historical, descriptive, experimental, and research methodologies.

7903 Survey Research Design and Implementation (3) Su Prereq.: HRE 7901 or equivalent. Survey and correlational research in vocational education; emphasis on selection and/or development of appropriate measuring devices.

7905 Advanced Research Design (3) V Prereq.: HRE 7901 or equivalent. Research design; emphasis on research concepts and procedures and their application to extension education.

7909 Application, Interpretation, and Reporting of Research Results (3) V Prereq.: HRE 7901, 7903 or 7905 or equivalent. Selection of appropriate statistical techniques and interpretation of results.

7973 Data Collection and Analysis in Organizations (3) S Introduction to the principles and fundamental methods of collecting, analyzing, and interpreting data in organizations for the purpose of informing actions and decisions related to human resource development.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading. Permission of instructor.

8900 Research Problems (1-6) Prereq.: HRE 7622 and a basic graduate-level statistics course. May be taken for a max. of 6 sem. hrs. of credit. Permission of instructor.

Research problems in programming, teaching, leadership, organization, or evaluation of extension programs.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading. Permission of instructor.

INDUSTRIAL ENGINEERING • IE

1002 Industrial Engineering Fundamentals (3) Design; introduction to computers; description of the profession.

2060 Introduction to the Use of Computers (3) Prereq.: eligibility to take MATH 1550 or equivalent; and credit or registration in IE 1002. 2 hrs. lecture; 3 hrs. lab. Principles of digital programming; application of subroutines; application of electronic computers to typical engineering problems; OS operation, Microsoft Office, and Groupware.

3201 Principles of Engineering Economy (3) Planning economy studies for decision making, including considerations of rate of return, cost and yield studies, depreciation and tax relationships, increment costs, replacement, and introduction to multivariate alternative studies.

3302 Engineering Statistics (3) Prereq.: Grade of C or better required in MATH 1552 and PHYS 2102 or CSC 2259. Probability, discrete and continuous distributions, functions of random variables, estimation theory, tests of hypotheses including goodness-of-fit and independence.

3520 Supply Chain Logistics I (3) Prereq.: IE 1002, MATH 2090, and grade of C or better in IE 3302. Introduction to resources and systems; Logistics resource optimization: linear programming; Logistics network and flow problems: transportation problems, shortest path and vehicle routing, maximum flow problems; Project and resources management, and operations sequencing and resource scheduling.

4362 Advanced Engineering Statistics (3) Prereq.: grade of C or better in IE 3302. Linear regression and correlation, curvilinear regression, analysis of variance, and factorial experiments.

4425 Information Systems Engineering (3) Prereq.: IE 2060. 2 hrs. lecture; 3 hrs. lab. Analysis and design of information systems; projects relating comprehensive computer systems to typical industrial and service applications; ethics and professionalism.

4426 Distributed Information Systems Engineering (3) Prereq.: IE 4425 or equivalent. 2 hrs. lecture; 3 hrs. lab.

Interfacing programs to databases; analysis and development of client-server applications in industrial and business settings; interfacing databases and industrial applications to the Internet; analysis, design, and implementation of industrial and business networks.

4453 Quality Control & Six Sigma (3) Prereq.: grade of C or better in IE 3302. Principles and practice of quality assurance and control; theory of statistical sampling and control and related economic analysis; Quality Systems; Six Sigma principles and practice.

4461 Human Factors Engineering (3) Prereq.: senior standing or consent of department. 2 hrs. lecture; 3 hrs. lab. Human performance in human-machine systems, including information processing, display and control design, workplace design, and environmental effects on worker performance.

4462 Safety Engineering (3) Occupational safety and health and accident prevention management; design and implementation of safety programs; cost analysis; control of hazardous physical and environmental conditions.

4463 Fundamentals of Industrial Hygiene Engineering (3) Prereq.: senior standing. Basic principles of chemical hazards, air contamination, ionizing and nonionizing radiation, sound and vibration, and thermal stresses; theoretical foundation and application of theory in the control of occupational health hazards.

4465 Biomechanics for Engineers (3) See BE 4323.

4466 Human Computer Interaction (3) Prereq.: IE 2060 or equivalent. Systems approach to the identification, design, analysis, and development of human-operated information processing systems; applications to practical problems in industry, military, health systems, and education.

4470 Knowledge-Based Systems in Engineering (3) Prereq.: IE 4425 or equivalent computer experience. 2 hrs. lecture; 3 hrs. lab. Tools and techniques of knowledge-based expert systems as applied to engineering problems; expert systems theory; systems building tools; state-of-the-art engineering expert systems.

4480 Manufacturing Automation (3) Prereq.: IE 3201 and ME 3633. 2 hrs. lecture; 3 hrs. lab. Application of computer-based control system techniques to manufacturing automation; programming of numerically controlled machine tools using Compact II and APT; robotics with multidegree of freedom linkages; NC programming using CAD/CAM; computer-automated part programming.

4485 Systems Integration in Manufacturing (3) Prereq.: IE 2060, ME 3633, EE 2950. 2 hrs. lecture; 3 hrs. lab. Principles and application of information technologies to monitoring, control, and integration of manufacturing operations at all levels within the organization.

4490 Engineering Maintenance Management (3) Prereq.: IE 1002, 3302, and credit or registration in IE 4425. Design, operation, and monitoring of a system to efficiently control maintenance costs; maintenance organization and systems, preventive maintenance, maintenance planning and scheduling, maintenance work measurement, labor performance measures, and spare parts.

4516 Plant and Systems Design (3) Prereq.: IE 3201; grade of C or better in IE 3520; CM 2141; and senior standing in College of Engineering. Machine loading, assembly balancing techniques, design of physical-manufacturing systems, integrating materials-handling systems into the plant, design of plant service systems, site and plant location, and projects involving plant design using optimization techniques; ethics and professionalism.

4520 Supply Chain Logistics II (3) Prereq.: grade of C or better in IE 3520. Production logistics: forecasting, aggregate production, inventory systems, and materials requirement planning; lean supply system and supply chain management; warehousing and distribution systems; supply chain information technologies, and government policies/regulations.

4530 Lean Manufacturing Systems (3) Prereq.: IE 2060, 3520 and credit or registration in IE 4362. 2 hrs. lecture; 3 hrs. lab. Principles of Lean Manufacturing Systems; Queuing Theory and Analysis; Measurement and Assessment-Industrial Process Mapping, Workflow Analysis; Improvement Activities-Process and Operational Variability Reduction, Resource Reduction, Work-in-Process Reduction, Waste Reduction, Zero Inventory and Just-in-time Production Systems; Design for Lean Manufacturing; Material and Shop Floor Flow Control; Simulation Modeling and Analysis of Lean Systems.

4540 Reliability Engineering (3) Prereq.: IE 3302. Reliability in design; reliability models; reliability assessment during pre-production development and testing; and special problems in maintenance, spare parts, and Markov processes.

4599 Industrial Engineering Senior Design Project (3) Prereq.: IE 4425, 4453, 4516, 4520, 4530 and ME 3633; consent of department. Must be taken during the last semester of the undergraduate program. For December graduates, must be taken in fall semester immediately prior to

graduation; for spring or summer graduates, must be taken in the spring semester immediately prior to graduation.

Students not meeting this requirement will be dropped from the course. Application of previous industrial engineering courses in a comprehensive design project; preparation for the FE exam in industrial engineering.

4785 Special Topics in Industrial Engineering (1-3) Prereq.: senior standing and consent of department. May be taken for a max. of 6 hrs. of credit when topics vary. Two sections may be taken concurrently if topics vary. Topics in industrial engineering not sufficiently covered in other undergraduate courses.

7201 Advanced Engineering Economy (3) Prereq.: IE 3201 or equivalent. Engineering economic analysis, multiple projects and constraints, utility in project selection, preference ordering theory, and capital equipment pricing theory.

7211 Project Engineering (3) Prereq.: IE 3201 or equivalent. Large-scale engineering construction or development projects from schematic to online condition.

7382 Probability Theory in Engineering (3) Prereq.: IE 4362 or equivalent. Random variables and their functions; transformation of random variables; sets of random variables and random sequences; expectation, special distributions, random processes, discrete and continuous Markov processes, birth and death processes, and waiting line theory.

7408 Industrial Systems Simulation (3) Prereq.: IE 4530 or equivalent. Design and analysis of simulation models for industrial systems including advanced techniques for random number generation, random variate generation, design and analysis of simulation experiments, and variance reduction techniques.

7425 Advanced Information Systems Engineering (3) Prereq.: IE 4425 or equivalent. 2 hrs. lecture; 3 hrs. lab. Advanced concepts of information systems engineering with emphasis on middleware architectures/technologies for integrating databases; design issues and methodology for developing and implementing distributed information systems; and design and implementation of data-warehouses and online analytical processing (OLAP) systems.

7455 Lean Process Improvement (3) Philosophy and concepts of quality and process improvement, organization for quality, quality improvement (QI) tools and techniques, advanced QI techniques, and quality improvement systems. Application of advanced Six Sigma and Lean tools and techniques to case studies related to the construction industry. Investigation, learning, and application of current research related to the course topics.

7461 Ergonomics in Work Design (3) Prereq.: IE 4461 or equivalent. 2 hrs. lecture; 3 hrs. lab. Introduction to anthropometry, functional anatomy and physiology, and their application in work design and task assessment.

7463 Industrial Hygiene Engineering (3) Prereq.: IE 4463 or equivalent or consent of instructor. Evaluation and control of industrial environments; noise and vibration, industrial illumination, radiation, thermal stresses, air quality and contamination; design of ventilation systems.

7464 Work Physiology (3) Prereq.: IE 4461 or equivalent. Study of worker's physiological responses (cardiovascular, pulmonary, muscular) to work applicable to task design and evaluation, employee selection and placement, and work-rest scheduling.

7465 Occupational Biomechanics (3) Prereq.: IE 4461 or equivalent. 2 hrs. lecture; 3 hrs. lab. Principles of biomechanics applied to human movement; applications to work systems such as manual materials handling and tool design.

7466 Human Interaction with Computers (3) Prereq.: IE 4461 or IE 4466 or equivalent. Ergonomics of the use of interactive computer systems; general characteristics and requirements of people-oriented computer systems from the perspective of different disciplines and tasks, e.g., text editing.

7467 Cognitive Ergonomics and Work Environments (3) Prereq.: IE 3302 and 4461; or equivalent. Topics in cognitive ergonomics relating to information processing, visual and auditory displays, and aspects of the work environment such as noise, socio-technical systems, and psychosocial factors. Application to various work settings including construction, healthcare, and the service sector.

7470 Artificial Intelligence Manufacturing Systems (3) Prereq.: IE 4425 or equivalent. Application of artificial intelligence tools and techniques to computer integrated manufacturing systems including maintenance, product design, process planning, factory scheduling and control, robotics, and intelligent warehouse systems.

7480 Automation and Computer-Aided Manufacturing (3) Prereq.: IE 3201 and MATH 1552; or equivalent. Automated flow-line production, numerical control, industrial robots, computer-aided manufacturing, process monitoring and control, group technology, flexible manufacturing systems, and material requirements planning.

7540 Advanced Reliability Engineering (3) Prereq.: IE 4540 or equivalent. Analysis of reliability, maintainability, and availability of large production facilities; applications to a variety of manufacturing environments.

7541 Linear Programming Algorithms (3) Prereq.: IE 3520 or equivalent. Optimization of linear objective functions subject to linear constraints; vector spaces, convex analysis, polyhedral sets; matrix versions of simplex, revised simplex, bounded variables; duality theory and primal-dual simplex algorithms; postoptimal and parametric analysis; decomposition, and cutting plane algorithms.

7551 Queuing Theory (3) Prereq.: IE 3520 or equivalent. Fundamentals of queuing processes, transient and limiting behavior, measures of effectiveness; birth and death processes, single and multi-server queues, priorities, balking, batch arrivals, and services; matrix representation of certain queuing systems; applications, statistical inference, design and control of queues.

7561 Programming Methods in Operations Research (3) Prereq.: IE 3520 or equivalent. Aspects of advanced programming methods for unconstrained and constrained problems; development of goal, zero-one, gert, and multiple objective programming with application to industrial processes and planning.

7565 Metaheuristics (3) Prereq.: IE 3520 or equivalent. Introduction of the principles, algorithms, and real world applications of metaheuristic algorithms including projection based methods such as simulated annealing, tabu search, variable neighborhood search, guided local search, iterated local search, and population based methods such as particle swarm optimization, differential evolution, ant colony optimization, genetic algorithm, and evolutionary programming.

7640 Equipment Failure Analysis and Prevention (3) Prereq.: credit or registration in IE 4540 or equivalent. Analysis, monitoring, and prevention of failures in mechanical equipment; failure mechanisms; mechanical failure analysis techniques; Weibull failure analysis techniques; and failure management.

7722 Special Topics in Industrial Engineering (3) May be taken for a max. of 12 sem. Hrs. when topics vary. Special topic courses in specialized areas such as design and analysis of complex production systems, supply-chain control, maintenance, quality control, reliability, ergonomics and human-computer interaction, information systems, safety, and construction management.

7724 Independent Study in Industrial Engineering (1-3) Prereq.: Consent of department. May be taken for a max. of 6 sem. hrs. of credit. Independent study in specialized areas such as design and analysis of complex production systems, supply-chain control, maintenance, quality control, reliability, ergonomics and human-computer interaction, information systems, safety and construction management.

7761 Production Planning and Control (3) Prereq.: IE 4520 or 3520 or equivalent. Deterministic and probabilistic inventory models, static and dynamic models for production planning; multi-stage, multi-echelon production systems; sequencing and scheduling; line balancing and workforce scheduling.

7762 Supply Chain Systems (3) Prereq.: IE 3520 or 4520, or equivalent. Components in supply chain systems; product life-cycle modeling, rotational production and supply, integrated component supply systems, multi-source supplier and buyer systems, just-in-time supply chain systems, warehousing and distribution systems, supply transportation system, and information technology for supply chain systems.

7765 Lean Production Systems (3) Prereq.: IE 3520 or 4520, or equivalent. Principles and components of lean production systems; industrial process mapping, workflow analysis; resource reduction; market characterization, logistics information and error propagation; reduction of work-in-process, waster reduction, zero inventory and just-in-time production systems; material flow control; process and operational variability reduction; role of buffers and process stabilization.

7768 Sequencing and Scheduling (3) Prereq.: IE 3520 or 4520 or equivalent. Measures of scheduling; deterministic models for single and parallel machines, job shops, flow shops, and open shops; stochastic scheduling models for machines, job shops, flow shops, and open shops; computational complexity and industrial applications.

7771 Design of Manufacturing Systems (3) Prereq.: IE 3520 or 4520 or equivalent. Principles in modeling, analysis, design, and operations; mass production, cellular manufacturing, machine location and layout, job routing and loading strategy; material handling and storage/retrieval systems.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Pre-dissertation Research (1-9) May be repeated for credit.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

INFORMATION SYSTEMS AND DECISION SCIENCES • ISDS

1100 Introduction to Management Information Systems (3) 1 hr. lecture; 4 hrs. lab. An honors course, ISDS 1101, is also available. Credit will not be given for both this course and ISDS 1101. Examine the expanding role of information technology in organizations including the development and use of information systems, hardware, and software, the strategic impact of IT, and the nature of the IT career; utilization of management information systems to improve managerial decision making.

1101 HONORS: Introduction to Management Information Systems (3) Same as ISDS 1100 or ISDS 1102, with special honors emphasis for qualified students. Credit will not be given for both this course and ISDS 1100 or ISDS 1102.

1102 Introduction to Management Information Systems for Business Majors (3) An honors course, ISDS 1101, is also available. Credit will not be given for both this course and ISDS 1101. Role of information technology in business including the development and use of information systems, hardware and software, the strategic impact of IT for businesses, and the nature of the IT career; utilization of management information systems to improve managerial decision making.

2000 Introduction to Business Statistics (3) Prereq.: MATH 1431 or equivalent. An honors course, ISDS 2010, is also available. Credit will not be given for both this course and ISDS 2010. Statistical description and inference; descriptive statistics, sampling, basic probability theory; probability distributions, including normal and binomial; sampling distributions; inferential statistics including estimation, one- and two-sample hypothesis tests for means, and chi-square test of independence.

2001 Statistical Methods and Models (3) Prereq.: ISDS 2000 or equivalent. Continuation of ISDS 2000. An honors course, ISDS 2011, is also available. Credit will not be given for both this and ISDS 2011. Advanced statistical methods and decision models including ANOVA and linear regression analysis; management science models such as utility functions, decision analysis, math programming, waiting line models and simulation.

2010 HONORS: Introduction to Business Statistics (3) Same as ISDS 2000, with special honors emphasis for qualified students. Credit will not be given for this course and ISDS 2000.

2011 HONORS: Statistical Methods and Models (3) Same as ISDS 2001, with special honors emphasis for qualified students. Credit will not be given for this course and ISDS 2001.

3000 Statistical Methods and Models III (3) Prereq.: ISDS 2001. Continuation of ISDS 2001. Statistical inference; additional applications of sampling distribution; the chi-square, student's t, and F distributions; estimation; hypothesis testing; survey sampling; linear regression; simple correlation; analysis of variance; nonparametric tests.

3070 Independent Reading and Research in Information Systems and Decision Sciences (1-6) Prereq.: ISDS 3100 and consent of instructor. May be taken for a max. of 6 sem. hrs. of credit. Student is responsible for registering with a faculty member and selecting an area of reading and/or research.

3075 Internship in Information Systems and Decision Sciences (3) Prereq.: permission of instructor and department chair required. Pass/fail grading. At least the equivalent of 144 hours per semester (3 credits) of learning experience in information systems under the general supervision of an ISDS faculty member and direct supervision of an information systems or decision sciences professional. Grading based on the faculty member's evaluation, a written report by the professional supervisor, and a written report by the student.

3100 Management of Information Resources (3) Prereq.: ISDS 1100 or ISDS 1101 or ISDS 1102. Information as a resource; issues in information resource management; elements of information systems; development and maintenance of information systems; controlling information resources.

3105 Internet Development Tools (3) Prereq.: ISDS 1100 or equivalent. Understanding of the Internet and its structure for use in business; technologies employed to develop Internet applications; development of business applications for the Internet.

3107 Beginning Programming (3) Prereq.: ISDS 1100 or ISDS 1101 or ISDS 1102. Fundamentals of programming, program design, application development interfaces, debugging, testing, and implementation.

3110 Database Processing for Management (3) Prereq.: ISDS 4113 or concurrent enrollment. Structure and function of managerial databases; design options and implementation of database management systems in the firm; laboratory

practice includes use of a particular software system.

3115 Introduction to Operations Management (3) Prereq.: ISDS 2001 or equivalent. An honors course, ISDS 3117, is also available. Credit will not be given for both this course and ISDS 3117. Principles and methodologies concerning productivity and quality of manufacturing and service organizations; production and service systems design; process and capacity design; total quality management; systems for just-in-time and purchasing management; inventory and materials management.

3117 HONORS: Introduction to Operations Management (3) Same as ISDS 3115, with special honors emphasis for qualified students. Credit will not be given for this course and ISDS 3115.

3120 Management of the IT Function (3) Issues in managing the Information Technology (IT) function, including the discussion of how technology has underpinned the "new Economy," formulating an IT strategy, structuring and managing the IT function, and emerging trends in IT.

3200 Advanced Business Programming (3) Prereq.: ISDS 3107 and ISDS 3110. Computer programming methods for business systems emphasizing contemporary programming environments and applications development interfaces.

4000 Introduction to Statistical Theory (3) Prereq.: proficiency in basic statistical methods and MATH 1552; or consent of instructor. Concepts of probability distribution and statistical inference; theoretical foundations for estimating and testing hypotheses about means, proportions, and variances; chi-square and F tests.

4010 Basic Forecasting Models (3) Prereq.: ISDS 3000 or equivalent. Single-equation multiple regression and time series modeling procedures for business and economic forecasting; using time series data in regression models; time series modeling, including classical decomposition procedures and exponential smoothing; use of computer programs for regression and time series modeling and forecasting.

4011 Sample Survey Methods (3) Prereq.: ISDS 3000 or equivalent. Designing sampling systems; alternative sample designs; problems of bias; techniques of inference from alternative designs; criteria for selecting optimal sampling plans; methods and applications of sample surveys.

4012 Applied Nonparametric Statistics (3) Prereq.: ISDS 3000 or equivalent. Applied nonparametric statistics including techniques for one-sample problems, comparison of two treatments, paired comparisons, randomized complete blocks, comparison of more than two treatments, tests of randomness and independence, and measures of correlation.

4013 Bayesian Probability and Statistical Methods (3) Prereq.: ISDS 3000 or equivalent. Assessment of subjective probability distributions; Bayesian estimation and inference; application of Bayesian techniques to business problems.

4020 Operations Research for Managerial Decisions (3) Prereq.: ISDS 2001 or equivalent. Managerial decision making, including decision analysis, linear programming, transportation models, integer programming, project scheduling, and waiting line models; basic understanding and evaluation of operations research techniques.

4021 Foundations of Mathematical Programming (3) Prereq.: credit or registration in ISDS 4020. Theoretical foundations of linear programming in single and multiple objectives; classical nonlinear optimization of unconstrained and constrained functions; Kuhn-Tucker conditions and quadratic programming.

4031 Applied Linear Models (3) Prereq.: ISDS 3000 or equivalent. Development of a unified approach to estimation and hypothesis testing in linear statistical models; emphasis on appropriate specification and interpretation of models and statistical hypothesis; use of available computer routines and interpretation of results; unbalanced analysis of variance models, linear regression models, and analysis of covariance models.

4110 Business Decision Support and Expert Systems (3) Prereq.: ISDS 3110 or equivalent. Laboratory practice includes use of a particular software system. Business decision modeling; constructing a decision support system (DSS); DSS development tools; executive information systems; expert systems (ES) in business; building ES; process, tools, and strategy; integration of DSS and ES.

4111 Enterprise Systems (3) Prereq.: ISDS 3100. Overview of key enterprise systems concepts from functional, technical, and implementation perspective; emphasis on the process-centered organization and how integrated systems are designed to support cross-functional business; hands-on computer based exercises involving a hypothetical global company.

4112 Data Warehousing (3) Prereq.: ISDS 3100. Data Warehouses for business; topics include: top-down design,

bottom-up design, data charts, multidimensional data, data mining, Web-enabled data warehouse, knowledge management.

4113 Information Technology Project Management (3)

Prereq.: Credit or registration in ISDS 3100. Topics on effectively managing information technology projects including: setting goals and objectives; work breakdown structures; project scheduling; managing project resources; evaluation and review; incentives and qualitative analysis; project accounting; extensive use of cases involving hands-on computer analyses with state-of-the-art project management software.

4114 Software Quality Assurance (3) *Prereq.: ISDS 3100.* Modern practices of software quality management; topics include: software development process models, software quality metrics, basic quality tools, software reliability models, customer satisfaction measures, and the ISO 9000 quality system standard.

4117 Management of E-Commerce and Internet Information Systems (3) Management of e-commerce and internet systems including: business models and strategies; performance and evaluation; navigation and content; security, trust, and legal issues; integration of managerial, technical, and legal perspectives for intra-business systems, B2B systems, e-supply chains, portals, B2C systems, electronic markets, and e-government.

4118 Web Analytics (3) *Prereq.: ISDS 3100.* Principles of web analytics; key performance indicators, benchmarks, A/B testing, personalized content, customer-centric Web site design, process flow analysis, usability, research design, and statistical methods.

4120 Business Data Communications (3) *Prereq.: ISDS 3100 or CSC 1350.* Telecommunications in business, including both voice and data communication, technical details (hardware, software, protocols, network configurations), network management, and security issues.

4123 Computer and Networking Security (3) *Prereq.: ISDS 4120.* Security management, corporate risk assessment, access control, authentication, transmission control protocol and internet protocol packet content analysis, firewall hardware and software, types of encryption, cryptographic systems, application security issues, and laws governing security and privacy.

4125 Analysis and Design of Management Information Systems (3) *Prereq.: ISDS 3110, 3200.* Design philosophies and techniques for the creation of information systems for management decision making; conceptual design of actual information systems.

4141 Introduction to Data Mining (3) *Prereq.: ISDS 3100.* Fundamental methodology and techniques used in data mining, with particular emphasis on business applications; topics include market basket analysis, memory-based reasoning, cluster detection, link analysis, decision trees and rule induction, neural networks, and genetic algorithms.

4160 Sourcing in China (3) Network clusters; cost competitiveness; choosing strategic partners and suppliers; negotiation style; brand, design, and manufacturing; factory and supply chain audits; protecting intellectual property; vulnerability assessments; global sourcing repositioning; sourcing practices and cases in industries.

4165 Operation of Service and Distribution Systems (3) *Prereq.: ISDS 3115.* Application of operations management concepts and techniques in service and distribution organizations; service system design and control, including location, layout, capacity expansion, staffing and scheduling; special attention to structure design and operational control of distribution systems and interfaces with other functional areas.

4167 Operations Planning and Control (3) *Prereq.: ISDS 3115 or equivalent.* Planning and control of operations in manufacturing and service organizations; aggregate planning, master scheduling, requirements planning, and activity control; emphasis on developing skills through case studies and computer models.

4168 Supply Chain Management (3) *Prereq.: ISDS 4165.* Planning, implementing, and controlling the efficient, cost-effective flow and storage of raw material, in-process products, finished products, and related information in a supply channel; resource/material management; supplier strategy; inventory planning and control; just-in-time systems; customer service; logistics and interfaces with other functional areas; emphasis on concepts, model development, and analysis.

4180 Business Analysis in Practice (3) *Prereq.: senior standing or permission of instructor.* Contemporary problems encountered by the business analysis professional; emphasis on case analysis and use of business analysis skills and computer technology to solve business problems.

4200 Quality Management (3) *Prereq.: ISDS 3115. Credit will not be given for both this course and IE 4453.* Principles and practices of statistical quality control in industry; control charts for variables and for attributes; process capability analysis; acceptance sampling for variables and for attributes;

design of experiments; Taguchi methods; and ISO 9000 standards.

4244 Information Systems Auditing (3) *Credit will not be given for this course and ACCT 4244 or ACCT 7244.* The class will focus on the IS Audit process, IT Governance, Systems and Infrastructure Life Cycle Management, Service Delivery and Support, Protection of Information Assets, and Business Continuity and Disaster Recovery. Emphasis will be placed on current practices and technologies used in today's IT Audit environment.

4501 Systems Modeling and Analysis I (3) *Prereq.: ISDS 2001. Final project involves the application of discrete-event simulation to a real-world problem.* Modeling and analysis of production and service systems using discrete-event computer simulation; discrete-event simulation mechanics; model structure, model building, modeling of complex systems; verification and validation; arrival processes; design of simulation experiments; statistical analysis of terminating and steady-state systems.

4502 Systems Modeling and Analysis II (3) *Prereq.: ISDS 4501. Final project involves the application of simulation to solve an operations problem in business or government.*

Advanced application of computer simulation concepts to dynamic systems; alternative approaches to simulation modeling; discrete-event, hybrid discrete/continuous, system dynamics, simulators, and template approach; further development of modeling and analysis skills; advanced analysis concepts including variance-reduction, simulation meta-models and simulation optimization.

4511 Industrial Simulation (3) *Prereq.: IE 3510, 2060, credit or registration in IE 4362, or equivalents. See IE 4511.*

4701 Technological Entrepreneurship (3) *Prereq.: ISDS 1100 or equivalent. Also, offered as MGT 4701.* The competitive environment; technological evolution; finding the fertile ground of technological market; entrepreneurial process; marketing the technological venture; managing the venture; intellectual property rights; appropriating the returns to technological innovation.

5010 Statistical Methods for Public Administration (3) *Prereq.: college algebra. 2 hrs. lecture; 2 hrs. lab. Open only to students in the MPA program. Also offered as PADM 5010.*

7000 Statistical Theory (3) *Prereq.: ISDS 4000 or equivalent; and consent of instructor. Continuation of ISDS 4000.* Theoretical basis for topics in statistical inference including tests of hypotheses, experimental design, regression analysis, general linear models, nonparametric statistics; sequential tests of hypotheses; and complex sample designs.

7010 Decision Models for Public Administration (3) *Open only to students in the MPA program. See PADM 7010.*

7020 Theory of Stochastic Processes (3) *Prereq.: ISDS 4000 or equivalent.* Joint, marginal, and conditional probability distributions treated in detail; stochastic processes, including random walks, Markov processes, birth-death processes, stationary stochastic processes, and renewal processes; statistical inference based on stochastic processes.

7021 Sample Design and Analysis (3) *Prereq.: ISDS 7024 or equivalent.* Methodology for sampling and survey design; alternative methods for email and internet survey samples; analysis of survey data; evaluation criteria including efficiency and bias; emphasis on applications with theoretical foundations.

7022 Multivariate Data Analysis (3) *Prereq.: BADM 7020 or equivalent.* Multivariate methods, including principal components, canonical correlation, factor analysis, discriminant analysis, classification procedures.

7024 Advanced Statistical Analysis for Research I (3)

Prereq.: proficiency in calculus, linear algebra, basic statistical methods, and computer programming. Methods of statistical inference; statistical estimation; testing hypotheses about single and multiple means and proportions; simple and multiple linear regression; design of simple random, stratified, and cluster samples; extensive use of statistical computer programs.

7025 Advanced Statistical Analysis for Research II (3) *Prereq.: ISDS 7024 or equivalent. Continuation of ISDS 7024.* Advanced regression analysis; experimental design and analysis of variance; nonparametric methods; multivariate techniques; extensive use of statistical computer programs.

7070 Seminar in Advanced Business Problems (3) *May be taken for a max. of 6 hrs. of credit when topics vary.* Special topics in statistics and quantitative methods.

7080 Survey of Information Systems Research (3) *Prereq.: advanced PhD standing or consent of instructor.* Exploration of current research streams in information systems; relationships of IS to other disciplines; historical overview of the field.

7081 Critical Analysis of Information Systems Research (3) *Prereq.: advanced PhD standing or consent of instructor.* Development of skills in theory building, research design, writing research papers, and evaluating research in the field of information systems.

7101 Introduction to Operations Research Methods (1.5)

Prereq.: BADM 7020 or equivalent. Topics cover models that support managerial decision-making including decision analysis, simulation, risk analysis, linear programming, and integer programming; Excel spreadsheet is used extensively.

7102 Survey of Operations Research: Deterministic Models (3) *Prereq.: ISDS 7101.* Integer and mixed-integer programming, extensions of classical optimization, quadratic programming, separable programming, and dynamic programming; applications of more advanced mathematical programming; techniques with some theory.

7103 Survey of Operations Research: Stochastic Methods (3) *Prereq.: ISDS 7101 or 4021.* Extensions of decision theory, game theory, dynamic programming, Markovian decision processes, reliability models, and queuing models; probabilistic methods in operations research.

7106 Multiple Criteria Decision Making (3) *Prereq.: ISDS 7103.* Theory of the displaced ideal, linear multi-objective programming, goal programming, compromise programming, and multi-attribute utility measurement.

7107 Dynamic Programming (3) *Prereq.: ISDS 7102.* Theory and computational techniques of dynamic programming; single and multidimensional problems; relationship to classical optimization techniques.

7200 Quality and Productivity Management (3) Contemporary topics in total quality management; quality in software and system design and implementation; problem solving tools; process control; quality deployment and FMEA; team building and quality standards and awards; control charts for variables and for attributes; process capability analysis; acceptance sampling plans; design of experiments; Taguchi methods and ISO 9000 standards.

7210 Process and Planning Control (3) *Prereq.: BADM 7050.* Integration of operations planning and control with other business functions of an enterprise; enterprise resource planning (ERP); cases and managerial techniques to plan and schedule business processes in industrial and service areas; decision problems and appropriate tools; hands-on experience with ERP software; cross-functional case projects.

7211 Process and Planning Control II (1.5) *Prereq.: ISDS 7210.* Cases and management techniques to control business processes in industrial and service areas; material requirements planning, manufacturing resource planning, operations control; overview of computerized packages, enterprise management systems, decision problems, and case projects.

7220 Supply Chain Management (3) *Prereq.: BADM 7120 or equivalent.* Supply chain process analysis and control; critical issues in revolutionizing management of the entire supply chain; system productivity analysis, demand management, inventory management, distribution planning, integration in supply chain; emphasis on case study, spreadsheets, and software applications; network design, warehouse location, outsourcing, global supply chain, and information, EDI and DSS technologies in supply chain management; case study and SCM software.

7230 Project Management (3) *Prereq.: BADM 7120 or equivalent.* Topics of effectively managing projects including setting goals and objectives, project planning, evaluation and review; incentives and qualitative analysis, and project accounting; extensive use of cases involving hands-on computer analyses with state-of-the-art project management software.

7272 Operations Strategy (3) *Prereq.: BADM 7120 or equivalent.* Perspective for managers to integrate operations strategy into an overall business strategy; issues in selection of the capabilities, characteristics, and configuration of facilities; process/technologies; aggregate capacity; vertical integration; operations infrastructure; organizational structure and jobs; extensive use of case analyses drawn from service and manufacturing industries.

7275 Advanced Operations Management (3) *Prereq.: BADM 7120. May be taken for a max. of 9 hrs. of credit when topics vary.* Topics such as material requirements planning, inventory control, scheduling, facilities location and layout, quality control, job design, industrial design, network analysis; emphasis on application of techniques.

7501 Information Systems (3) *Prereq.: ISDS 1100 or equivalent.* Contemporary topics in information systems; survey of information system analysis and design; introduction to business data communication; database management systems and knowledge based systems; enterprise-wide systems and information systems control.

7505 Information Technology and Entrepreneurship (3) *Prereq.: BADM 7050 or equivalent.* Information economy, globalization and outsourcing, information technology-based business opportunities, technological entrepreneurship, entrepreneurial process, entrepreneurial thinking, process of discovering, effectuation, causation,

knowledge management, technological intrapreneurship.

7510 Database Management (3) Prereq.: BADM 7050.

Analysis, design, and implementation of databases based on the relational database model; data modeling using entity-relationship (E-R) diagramming; logical and physical database design; SQL; hardware/software architecture considerations; data and database administration; emerging database technologies and advanced database applications.

7511 Advanced Database Management (3) Prereq.: ISDS 7510 or equivalent.

Decision support systems, online analytical processing, multidimensional data modeling, web-enabled data warehousing, data marts, data mining, knowledge management, Internet business intelligence.

7520 Network Information Systems (3) Prereq.: BADM 7050.

Broad overview of network technologies including protocols, network operating systems, and network management; LAN, WAN design; Internet technology; network security.

7522 Internet Systems Development (3) Prereq.: ISDS 7520.

In-depth look at Internet applications architecture, server-side programming, web-database connectivity, integration of Web and other business applications, and Web development methods; emphasis on self-management, cross-project coordination, technology and time management; construct Internet based systems and manage Internet based systems development.

7530 Information Systems Analysis and Design (3)

Prereq.: BADM 7050; ISDS 7510. Both courses may be taken concurrently. Analysis and design of information systems from a management perspective; software development methodology; topics include requirements determination; feasibility determination; project management; evaluation of a software development strategy and application design; modeling using ER diagrams, and DFDs; systems implementation.

7535 Information Technology Management (3) Prereq.: BADM 7050. Management of the organization's information technology (IT) resources; planning and management of IT strategy, applications; hardware/software infrastructure, information resources, and IT professionals; organization and governance of the IT function, IT policies and standards, measurement of IT investments and returns, and deployment of new information technologies.

7540 Electronic Commerce (3) Prereq.: BADM 7050. Use of information technology and the Internet in creating new forms of business organization; creating a marketplace; disintermediation/ reintermediation; and virtual organization.

7543 Electronic Commerce II (1.5) Prereq.: ISDS 7540. Continuation of ISDS 7540. Advanced management issues, organizing principles and technologies; working in electronic communities; newsgroups, virtual communities, extranet and intranet.

7545 Collaborative Computing (1.5) Prereq.: BADM 7050. Foundation of collaborative computing; issues of motivation, synchronicity, anonymity, group size, group proximity, and group tasks.

7550 Enterprise Systems (3) Prereq.: BADM 7050. Study of the broad area of Integrated Enterprise-wide Systems; emphasis on features and capabilities of enterprise systems and their related technologies, the methodologies used to implement these systems in organizations, and the implications of their deployment in organizations.

7553 Business and Systems Change (3) Prereq.: ISDS 7550. Foundation of critical issues in the design and implementation of business and information systems change including business process reengineering, project and change management, and information systems design and management; emphasis on the systems perspective of business, and the change that these enabling emerging and disruptive technologies and systems permit that have the greatest impact on business and industries.

7555 Auditing Enterprise Systems (1.5) Prereq.: ISDS 7550 and ACCT 7233. Principles of auditing enterprise wide information systems in business; audit plans; controls and security issues.

7560 Social and Organizational Issues in MIS (3) Prereq.: BADM 7050. Impact of electronic communities on organizations; implications of design choices on business; ethical considerations.

7565 Global Information Technology Management (3)

Prereq.: BADM 7050. National IT policies; IT and national culture; IT management in multinational companies; IT diffusion in developed versus developing countries; IT and national development; global electronic commerce; global telecommunications infrastructure; and competitive advantage through global IT management.

7900 Contemporary Issues in Statistics and Management Science (3) Prereq.: advanced PhD study and consent of instructor.

Philosophical foundations of science and their implications for contemporary management science.

7910 Contemporary Issues in Production/Operations Management (3) Prereq.: advanced PhD standing or

consent of instructor. May be taken for a max. of 9 hrs. of credit when topics vary. Philosophical foundations and contemporary issues in production/operations management.

7920 Contemporary Issues in Management Information Systems (3) Prereq.: advanced PhD standing or consent of instructor. May be taken for a max. of 9 hrs. of credit when topics vary. Philosophical foundations and contemporary issues in management information systems.

7950 Research Seminar in Information Systems Topics (3) Required for all PhD students. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Contemporary research and critical issues in information systems.

7990 Project (3-6) Prereq.: permission of instructor. May be taken for a max. of 6 hrs. of credit. Pass-fail grading.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Pre-dissertation Research (1-9) May be repeated for credit.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

INTERIOR DESIGN • ID

General education courses are marked with stars (★).

★ **1051 Introduction to Interior Design (3)** Contemporary practice of interior design as a profession; responsibilities of the interior designer.

1711 Basic Design Foundation (3) V Prereq.: controlled admission to program in interior design at first year entry level or permission of department. 6 hrs. studio. Credit will not be given for this course and ART 1011. Basic design problems with an emphasis on two-dimensional principles and elements; foundation for the graphic exploration of interior space.

1780 Interior Design Technical Drawing (3) F,S,Su-V Prereq.: controlled admission to program in interior design at first year entry or permission of department. 1 hr. lecture; 4 hrs. studio. Introduction to the graphic tools, techniques, and conventions designers use to communicate architectural ideas; an immersion in the graphic language of drawing.

2722 Interior Design Awareness I (3) V Not open to interior design majors. Discipline of interior design; principles presented in historical and philosophical contexts; analysis of the use of spatial elements.

2750 Interior Design Studio I (4) F Prereq.: admission to professional program in interior design or permission of department. Concurrent enrollment in ID 2781. 8 hrs. studio. Basic design problems in the built environment; emphasis on design process, form and principles of spatial organization.

2751 Interior Design Studio II (4) S Prereq.: ID 2750 or equivalent. 8 hrs. studio. Exploration and analysis of design decisions related to interior space.

2770 Color and Illumination I (3) S Prereq.: sophomore standing in the major; nonmajors by consent of instructor only. 1 hr. lecture; 4 hrs. studio. Nature, theory, and art of color and light applied to two- and three-dimensional basic design projects.

2774 Interior Construction and Systems (3) F Prereq.: admission to professional program. Building systems and construction methods; code requirements for interiors.

2775 Interior Materials, Finishes, and Furnishings (3) S Prereq.: ID 2774 or equivalent. Types and sources of materials; finishes and furnishings used in interior spaces.

2781 Interior Design Graphics (3) F Prereq.: admission to professional program. Concurrent enrollment in ID 2750. 6 hrs. studio. Graphic representation methods used to illustrate and investigate form, spatial order, and the design process.

2785 Computer Visualization (3) F,S Prereq.: admission to professional program or consent of instructor. 1 hr. lecture; 4 hrs. lab. Computer drafting and three-dimensional modeling for spatial designers.

★ **3741 History of Interior Design and Decoration I (3) F** Development of interior design, decoration and furnishings through the early 19th century; design as an expression of cultural values.

★ **3742 History of Interior Design and Decoration II (3) S** Design, decoration, and furnishings of 19th and 20th century interiors; social, industrial, and technological influences on modern design.

3751 Interior Component Design (3) F,S-V Prereq.: ID 2751 or equivalent. 1 hr. lecture; 4 hrs. studio. Design, materials, and construction techniques of interior components; scale model and computer simulated design prototypes.

3752 Interior Design Studio III (4) F Prereq.: ID 2751 and ID 2775 or equivalent. 8 hrs. studio. Formulation of design concept/image; design implications of function, space, and scale.

3753 Interior Design Studio IV (4) S Prereq.: ID 3752 or equivalent. 8 hrs. studio. Design development of interior environments.

3759 Special Studies in Interior Design (1-6) F,S,Su-V Prereq.: consent of instructor. May be taken for a max. of 6

sem. hrs. of credit. Advanced studio work in predetermined areas of specialization.

3761 Interior Design Internship (3) F,S,Su Prereq.: completion of all 2000-level interior design courses and consent of instructor. Pass-fail grading. At least 20 hours of work per week (35 hours per week in summer session) supervised by an interior design faculty member and a professional designer in an approved firm.

3765 Field Studies in Interior Design (1-6) F,S,Su-V Prereq.: selective admission into the professional program in interior design at the sophomore year or permission of instructor. Intensive travel experiences in a variety of locales; participation in local, national, and/or international journeys with an emphasis on the built environment.

3770 Color and Illumination II (3) F,S-V Prereq.: junior standing in major; nonmajors by consent of instructor only. 1 hr. lecture; 4 hrs. studio. Quantitative and qualitative aspects of color/light; application to interior design.

3782 Interior Design Construction Documents (3) Prereq.: ID 2751 or equivalent. 1 hr. lecture; 4 hrs. studio. Development of construction documents for interior projects; design and documentation of interior architectural details.

3786 Advanced Computer Visualization (3) F,S,Su-V Prereq.: admission to professional program or permission of instructor. 1 hr. lecture; 4 hrs. lab. Advanced topics in computer drafting and three-dimensional modeling for spatial designers.

4720 Seminar in Interior Design (3) F Prereq.: ID 3752 or equivalent. Research, discussions, and presentations related to contemporary issues in interior design.

4754 Interior Design Studio V (4) F Prereq.: ID 3753 or equivalent. 8 hrs. studio. Advanced application of the design process; development of comprehensive solutions to complex interior design problems.

4755 Interior Design Studio VI (4) S Prereq.: ID 4754 or equivalent. 8 hrs. studio. Concurrent enrollment in ID 4756. Design synthesis in a comprehensive capstone project.

4756 Independent Study Project (3) S Prereq.: ID 4720. Concurrent enrollment in ID 4755. 6 hrs. studio. Execution of a project selected by the advanced student with guidance from an advisory committee.

4758 Advanced Studies in Interior Design (1-6) F,S,Su-V Prereq.: consent of instructor. Advanced studio work in a predetermined area of specialization at upper level status.

4761 Professional Practice (3) S Prereq.: senior standing in the major or consent of instructor. Entering the profession; interior design business practices; ethics and project management.

INTERNATIONAL STUDIES • INTL

General education courses are marked with stars (★).

★ **2000 Contemporary Global Issues (3)** Survey of current world issues from an interdisciplinary perspective.

3001 Gateway to International Studies (3) Prereq.: ANTH 1003 or 2051, GEOG 1001 or 1003, HIST 1007, POLI 2057. Required for all international studies majors. Modernity, colonialism, and globalization in regional perspective.

3002 Independent Study in International Studies (3) May be taken for a max. of 6 hrs. of credit when topics vary. Independent study relevant to the field of international studies.

3092 Fundamentalisms and Religious Nationalism (3) See REL 3092.

3099 Undergraduate Internship in International Studies (3) F,S,Su Open to undergraduate students approved by the International Studies Program. May be counted toward the total number of hours required for a major in International Studies but not toward fulfilling field requirements. May be taken for a max. of 6 hrs. of credit when topics vary. Program of study, research, and work in governmental or private agencies concerned with international policy.

3786 Religion of Islam (3) See REL 3786.

3991 Study Abroad in Africa (1-6) May be repeated for up to 12 hours credit when topics vary. Studies in the history, culture, economics, politics, or geography of Africa.

3992 Study Abroad in the Middle East (1-6) May be repeated for up to 12 hours credit when topics vary. Studies in the history, culture, economics, politics, or geography of the Middle East.

3993 Study Abroad in Asia (1-6) May be repeated for up to 12 hours credit when topics vary. Studies in the history, culture, economics, politics, or geography of Asia.

3994 Study Abroad in Europe (1-6) May be repeated for up to 12 hours credit when topics vary. Studies in the

history, culture, economics, politics, or geography of Europe.
3995 Study Abroad in Latin America (1-6) *May be repeated for up to 12 hours credit when topics vary.* Studies in the history, culture, economics, politics, or geography of Latin America.

3996 Study Abroad in Russia and Central Asia (1-6) *May be repeated for up to 12 hours credit when topics vary.* Studies in the history, culture, economics, politics, or geography of Russia and/or Central Asia.

4000 International Studies Workshop (3) *For international studies majors in junior or senior year. Prereq.: consent of instructor. Development of research project in international studies—prospectus, annotated bibliography, and research proposal.*

4002 South Asian Society, Polity, and Culture (3) *Cross-listed with ANTH 4002, GEOG 4002, and REL 4001.* Historical anthropology of South Asia examining the four major cultural traditions (Hindu/Buddhist, Islamic, British, and nationalist) which currently shape the politics of nationalism, development, ethnicity, caste, and gender in the region.

4003 International Studies Senior Seminar (3) *Prereq.: INTL 3001 and 9 hrs. of additional upper level courses in an area of concentration. Required for all international studies majors, seniors only.* Advanced theory and case studies of globalization in an interdisciplinary perspective.

4010 A History of Geopolitics (3) History of European geopolitics and geopolitical thought from Thucydides through the end of the Cold War.

4033 Geography of Central Asia and Afghanistan (3) *See GEOG 4033.*

4051 North Africa and the Middle East (3) *See GEOG 4051.*

4095 The Middle East to 1800 (3) *See HIST 4095.*

4096 The Modern Middle East (3) *See HIST 4096.*

4100 Migration, Diasporas, and Identity (3) An interdisciplinary survey of global migration in the modern era and the resultant subnational and transnational forms of community, identity, and subjectivity: colonists, exiles, immigrants, refugees, and transients.

4997 Special Topics in International Studies (3) *May be repeated for a max. of 6 hrs. of credit when topics vary.*

ITALIAN • ITAL

Native speakers of Italian will not receive credit for courses marked with an asterisk ().*

General education courses are marked with stars (★).

***1001 Elementary Italian (4) F,S** *Supplementary work in language laboratory.* Basic lexicon and structure of Italian; emphasis on communicative language use.

★ 1002 Elementary Italian (4) F,S *Prereq.: ITAL 1001.* *Supplementary work in language laboratory.* Basic lexicon and structure of Italian; emphasis on communicative language use.

2002 Italian for Travelers (3) F,S *Does not count toward satisfying the foreign language requirement for undergraduates.* Basic communication patterns; practical everyday vocabulary; exercises in comprehension and conversation.

2028 Italian for Music (3) *Prereq.: music majors are expected to have taken MUS 2018 and 2019 before enrolling in this course.* Study of Italian language with major emphasis on opera libretti and song texts.

★ 2101 Intermediate Italian (3) F,S *Prereq.: ITAL 1002.* *Supplementary work in language laboratory.* Basic lexicon and structure of Italian; emphasis on communicative language use.

★ 2102 Intermediate Italian (3) F,S *Prereq.: ITAL 2101.* *Supplementary work in language laboratory.* Basic lexicon and structure of Italian; emphasis on communicative language use.

★ 2155 Readings in Italian Literature (3) *Prereq.: ITAL 2102.* Readings in contemporary and older literature of Italy; emphasis on comprehension as well as oral and written expression.

★ 3001 Italian Culture and Civilization (3) *Taught in English.* Italian culture and civilization from the medieval era to present.

3058 Advanced Oral Communication (3) *Prereq.: ITAL 2102.* Enhancement of oral communication skills through debating contemporary issues.

3060 Advanced Grammar and Composition (3) *Prereq.: ITAL 2155.* Intensive study of advanced Italian grammar, sentence structure, syntax, and composition.

★ 3071 Survey of Italian Literature (3) *Prereq.: ITAL 2155.* Development of Italian literature from the beginnings to the Renaissance.

★ 3072 Survey of Italian Literature (3) *Prereq.: ITAL 2155.* Continuation of ITAL 3071. Principal authors and literary movements from the Renaissance to the present.

4041 Translation (3) *Prereq.: ITAL 3060 or equivalent.*

Study of translation methodology between Italian and English; emphasis on the different semantic, morphological, and syntactical contexts of the two languages.

4051 Dante (3) Dante, with emphasis on the *Inferno*.

4052 The Renaissance (3) Literary origins and productions of the Italian Renaissance; writings of Petrarch, Boccaccio, Lorenzo de' Medici, Poliziano, Sannazaro, and Ariosto.

4053 Modern Italian Literature (3) *Prereq.: 3000-level Italian course or equivalent.* Selected works of modern Italian writers and literary critics of the 19th and 20th centuries.

4100 Special Topics in Italian Studies (3) *Prereq.: 3000-level Italian course or equivalent.* *May be taken for a max. of 6 sem. hrs. of credit when topics vary.* Study of various aspects of Italian culture and literature from different periods.

4915 Independent Work (1-3) F,S,Su *May be taken for a max. of 3 sem. hrs. credit. Permission of department required.* Readings in Italian literature directed by a senior faculty member.

7971, 7972 Seminar (3,3) Old Italian language and pre-Renaissance literature; Italian literature of the 18th and 19th centuries.

JAPANESE • JAPN

Native speakers of Japanese will not receive credit for courses marked with an asterisk ().*

General education courses are marked with stars (★).

***1001 Beginning Japanese (5)** *Students with prior knowledge of Japanese may not take this course for credit.* *Language laboratory work required.* Basic lexicon and structure; emphasis on communicative language use.

★ 1002 Beginning Japanese (5) JAPN 1001 or equivalent. *Language laboratory work required.* Basic lexicon and structure; emphasis on communicative language use.

★ 2001, ★ 2002 Intermediate Japanese (3,3) *Prereq.: JAPN 1002 is prerequisite for 2001; 2001 is prerequisite for 2002; approval of the instructor.* Structures and lexicon; emphasis on communicative language use and developing facility in reading Japanese.

3801 Traditional East Asian Literature (3) *See CHIN 3801.*

3802 Modern East Asian Literature (3) *See CHIN 3802.*

4915 Independent Work (1-3) F,S,Su *May be taken for a max. of 6 sem. hrs. credit. Prereq.: Permission of department.* Study of various aspects of the Japanese language.

KINESIOLOGY • KIN

Courses offered are of two types: (1) basic activity courses such as tennis, golf, etc. open to all students of the University; and (2) professional courses in kinesiology. All basic activity courses are offered on a pass/fail grade basis.

BASIC ACTIVITY COURSES

Students in these classes must furnish and wear clothing suitable to the activity.

1123 to 1160 Beginning Courses (1 sem. hr. each) *Pass/fail grading.*

1123 Archery

1124 Tennis

1125 Golf

1126 Gymnastics

1128 Rifle

1129 Badminton

1130 Bowling

1132 Ballroom Dance

1133 Children's Rhythms *For elementary grades, physical education, or special education majors.*

1134 International Folk Dance

1135 Golf for Business and Life

1136 Swimming

1140 Scuba Diving *Prereq.: KIN 1236 or consent of instructor.*

1142 Conditioning Exercises

1144 Aerobic Dance

1146 Weight Training

1147 Chinese Kung Fu

1148 Chinese Self Defense

1150 Recreational Dance

1151 Racquetball

1152 Tai Chi I

1154 Martial Arts

1155 Jogging

1156 Outdoor Living Skills *American Red Cross Standard First Aid Certificate recommended.*

1157 Aerobic Swimming *Prereq.: KIN 1236 or intermediate*

swimming skills.

1158 Canoeing *Prereq.: must be able to swim 50 yards with a personal flotation device; tread water for one minute and swim 50 yards without a personal flotation device.*

1160 Adapted Physical Education *For students who cannot participate in vigorous physical exercise due to physical disability or other handicapping condition.*

1224 to 1257 Intermediate Courses (1 sem. hr. each) *Pass/fail grading.*

1224 Tennis

1236 Swimming

1244 Aerobic Dance

1246 Weightlifting

1251 Racquetball

1252 Tai Chi II

1254 Martial Arts

1255 Jogging

1257 Aerobic Swimming

1336 to 1338 Advanced Courses (1 sem. hr. each)

Pass/fail grading.

1336 Swimming

1337 Advanced Lifesaving *Prereq.: KIN 1236 and 1336 or Advanced Swimming Certificate.*

1338 Water Safety Instructor's Course *Prereq.: valid Advanced Lifesaving Certificate.*

PROFESSIONAL COURSES

In the Department of Kinesiology, the second digit of the course number denotes the area of interest for professional courses, as follows: 4—kinesiology activity for majors; 5—kinesiology theory; 6—health.

1405 Track and Field (1) *3 hrs. lab. For kinesiology majors or minors.*

1406 Basketball (1) *3 hrs. lab. For kinesiology majors or minors.*

1407 Softball (1) *3 hrs. lab. For kinesiology majors or minors.*

1408 Volleyball (1) *3 hrs. lab. For kinesiology majors or minors.*

1409 Flag Football (1) *3 hrs. lab. For kinesiology majors or minors.*

1410 Field Sports (1) *3 hrs. lab. For kinesiology majors or minors.*

1412 Tennis (1) *3 hrs. lab. For kinesiology majors or minors.*

1413 Badminton (1) *3 hrs. lab. For kinesiology majors or minors.*

1427 Physical Activity I: Volleyball and Basketball (1) *For kinesiology majors or minors. 3 hrs. lab.* Identification, analysis, and practice of skills and techniques fundamental to volleyball and basketball; rules, strategies, safety.

1600 Personal and Community Health Problems (3) Content and theory related to basic health information; critical health issues; improving and maintaining optimal health and wellness.

1801 Movement Fundamentals for Physical Activity (2) *1 hr. lecture; 2 hrs. lab. For kinesiology majors.* Movement concepts associated with space and time and how these concepts can be organized into a learning environment.

1802 Individual/Lifetime Activities (2) *1 hr. lecture; 2 hrs. lab. For kinesiology majors.* Identification, analysis and practice of skills, techniques and fundamental concepts associated with lifetime activities.

1803 Team Activities (2) *1 hr. lecture; 2 hrs. lab. For kinesiology majors.* Identification, analysis and practice of skills, techniques and fundamental concepts associated with team activities.

1804 Aerobic and Strength Activities (2) *1 hr. lecture; 2 hrs. lab. For kinesiology majors.* Major concepts of aerobic and strength training including safety, technique, age appropriate activities, and training principles.

1999 Special Topics (1) *May be taken for a max. of 4 sem. hrs. credit when topics vary.* 3 hrs. lab. Identification, analysis, and practice of skills and techniques fundamental to sports; rules, strategies, and appropriate safety procedures.

2500 Human Anatomy (3) Micro and macroscopic study of the human body.

2501 History and Philosophy of Kinesiology (3) Developments in kinesiology and health from ancient times to the present.

2502 Practicum in Sports Studies (3) *Prereq.: For students minoring in sports studies. Pass-fail grading. Credit will not be given for both this course and KIN 2999.*

Observation and practical application in a sport or sport-related setting. Students work in a professional capacity under the guidance of an on-site coordinator.

2503 Basic Athletic Training (2) *1 hr. lecture; 2 hrs. lab.* Athletic training room procedure; first aid treatment of injuries; use of athletic training room equipment; protective

strapping; padding for all sports.

2504 Principles of Conditioning (3) 2 hrs. lecture; 2 hrs. lab. Methods and concepts of training and conditioning; physical fitness activities and current trends; participation in a fitness training lab including fitness assessments and training methods designed to promote fitness; planning physical fitness programs for community and commercial organizations, education institutions, and social agencies.

2505 Orthopedic Injury Evaluation Techniques I (3) Prereq.: BIOL 1201, 1208; KIN 2503; or permission of instructor. 2 hrs. lecture; 2 hrs. lab. For students in the professional phase of the Athletic Training area of concentration. Specialized course in the initial on-field and clinical evaluation of orthopedic injuries and conditions of the lower extremities and the spine, including emergency care procedures and signs/symptoms/treatment of various injuries/conditions.

2506 Orthopedic Injury Evaluation Techniques II (3) Prereq.: BIOL 1202, 1209; KIN 2503, 2505; or permission of instructor. For students in the professional phase of the Athletic Training area of concentration. Specialized course in the initial on-field and clinical evaluation of orthopedic injuries and conditions of the upper extremities, cervical spine, head, and face; including emergency care procedures and signs/symptoms/treatment of various injuries/conditions.

2507 Methods and Materials in Physical Education for the Elementary School (4) 2 hrs. lecture; 4 hrs. lab. For elementary teachers. Progressively graded programs of activities for elementary schools.

2509 Medical Terminology for Kinesiology (3) Majors only or permission of instructor. In-depth introduction to medical terminology, with a focus on body systems, medical specialties, and medical communication.

2510 Introduction to Sport and Leisure Administration (3) Introduction to the academic and professional field of sport administration.

2511 Sports Officiating (2) Prereq.: proficiency in sports indicated. 1 hr. lecture; 2 hrs. lab. Rules interpretation and techniques of officiating basketball, volleyball, and softball.

2512 K-12 Classroom Management and Organization (3) 2 hrs. lecture; 2 hrs. lab. Classroom and behavior management strategies for used in educational settings.

2515 The Coaching of Track and Field (2) 1 hr. lecture; 2 hrs. lab. Principles and techniques of coaching track and field; organization and administration of practice and various levels of competition.

2516 The Coaching of Basketball (2) 1 hr. lecture; 2 hrs. lab. Principles and techniques of coaching basketball; organization and administration of practice and various levels of competition.

2517 The Coaching of Baseball/Softball (2) 1 hr. lecture; 2 hrs. lab. Techniques of coaching baseball/softball; organization and administration of practice and various levels of competition.

2518 The Coaching of Volleyball (2) 1 hr. lecture; 2 hrs. lab. Techniques of coaching volleyball; organization and administration of practice and various levels of competition.

2519 The Coaching of Football (2) Prereq.: 1 hr. lecture; 2 hrs. lab. Techniques of coaching football; organization and administration of practice and various levels of competition.

2525 Practicum in the Coaching of Individual and Team Sports (1-3) 3-9 hrs. lab. May be taken for credit when sports vary.

2526 Psychology of Coaching (3) Psychological perspectives applied to the athletic situation; coaching personalities, athletic personalities, psychological injuries, motivation, mental preparation, relaxation techniques, and stereotypes in athletics.

2530 Sport in Society (3) Interdisciplinary study of sport as a mirror of society reflecting the dynamics of human social existence; emphasizes process through which individuals formulate their identity from youth to old age.

2540 Introducing Physical Education for Individuals with Disabilities (3) Credit will not be given for both this course and KIN 3545. Principles and practices of physical activity opportunities for people with disabilities; laws affecting those with disabilities; motor abilities of individuals with disabilities; adjusting programs to suit the needs and interests of these individuals.

2577 Health and Physical Education for the Elementary School (4) 3 hrs. lecture; 2 hrs. lab. Basic principles and concepts of a healthy lifestyle; nutrition, fitness, exercise; study and analysis of movement.

2600 Human Sexuality (3) Historical, semantic, religious, social, medical, and comparative cultural aspects of human sexuality from childhood to senility.

2601 First Aid (1) 1 hr. lecture; 1 hr. lab.

2602 Methods, Materials, and Content in Health Education for the Elementary School (3) Theoretical foundations, essential content and pedagogical practices for K-8 Health Education.

2603 Consumer Health (3) Major consumer health problems; selecting, purchasing, and financing health

services and products.

2604 Issues in Mental Health (3) Issues in mental health; stress, depression, alienation, family violence, suicide, death and dying.

2900 Independent Study (1-3) Prereq.: Permission of instructor. May be taken for a max. of 6 sem. hrs. of credit. Reading, research or field work on selected topics.

2999 Internship in Leisure, Recreation and Sport (6) Prereq.: Permission of instructor and concurrent enrollment in KIN 2900. Pass/fail grading. Credit will not be given for both this course and KIN 2502. Gaining first hand knowledge and practical hands-on experience in recreational or sport settings.

3500 Human Anatomy Laboratory (1) Prereq.: KIN 2500 or consent of instructor. 2 hrs. lab. Computer based study. Interactive software of the human body; gross anatomy with emphasis on muscle, bone, nerve, and blood vessels.

3501 Advanced Athletic Training (3) Prereq.: KIN 2503, 2 hrs. lecture; 2 hrs. lab. Advanced topics in athletic training; advanced taping techniques; emergency care protocols including spine boarding, crutch fitting; and splintings; proper use and indications of therapeutic modalities.

3502 Tests and Measurements in Kinesiology (3) 2 hrs. lecture; 2 hrs. lab. Principles of measurement and evaluation in kinesiology and health; emphasis on criteria for selection and evaluation of tests and techniques of testing; analyzing and interpreting motor performance and cognitive test scores.

3505 Practicum in Athletic Training (1) Prereq.: KIN 2503, 2 hrs. clinic/practicum. May be taken for a max. of 6 sem. hrs. credit.

3507 The Olympic Games: Ancient and Modern (3) Origins, growth, politicalization, and governance of the games.

3508 Organization and Administration in Athletic Training (3) Limited to students in the athletic training certification concentration. Organization and administration of an Athletic Training Program including budget, facilities, equipment, insurance, legal aspects, records, employment, personnel, and structure of the National Athletic Trainer's Association.

3509 Therapeutic Exercise and Rehabilitation in Athletic Training (3) Prereq.: KIN 2505, 2506; or permission of instructor. 2 hrs. lecture; 2 hrs. lab. For students in the Athletic Training area of concentration. Basic components of designing and implementing physical rehabilitation programs; rationale use and application of therapeutic exercise techniques in injury rehabilitation.

3510 Techniques and Methods of Teaching Physical Education (3) Prereq.: KIN 2504 and competency in four activities. Concurrent enrollment in KIN 3516. Education majors only. 2 hrs. lecture; 3 hrs. lab. Microteaching and field experience required. Current teaching methods and materials in physical education; teaching styles, aids, and formulation of lesson and unit plans.

3511 The Physical Education Program in Elementary Schools (3) 2 hrs. lecture; 2 hrs. lab/field experiences in multicultural settings. For kinesiology majors or minors. Must be taken concurrently with KIN 3516. Students must be enrolled in the College of Education. Progressively graded programs of activities.

3512 Therapeutic Modalities (3) Limited to students enrolled in the athletic training area of concentration or by permission of instructor. Cognitive, psychomotor, and affective skills for therapeutic modalities in treatment of athletic injuries; topics include principles of tissue trauma, wound healing, pain mechanism, thermal modalities, mechanical modalities, and electromagnetic modalities.

3513 Introduction to Motor Learning (3) Motor skills learning principles that can be applied to instructional and rehabilitation situations; psychological and physiological characteristics that influence skill learning; behavioral changes related to the stages of skill learning; the influence of various types of practice conditions on skill learning.

3514 Biomechanical Basis of Kinesiology (3) Prereq.: MATH 1022, KIN 2500, PHYS 2001 or equivalent. Education majors only. Anatomical and mechanical analysis of human movement; emphasis on structure and function of bone and muscle, statics, dynamics, kinematics, kinetics, and projectile motion.

3515 The Physiological Basis of Activity (3) Prereq.: KIN 2500, 2504; BIOL 2160. Basic physiological concepts of the muscular, metabolic, cardiovascular, and circulorespiratory systems; behavior of each system in relation to exercise; determination of normal and abnormal physical responses to exercise; development of a philosophy of scientific inquiry.

3516 Curriculum Construction in Physical Education (3) Concurrent enrollment in KIN 3510 or 3511. Education majors only. Curriculum construction and program content for elementary and secondary schools.

3517 Neuromotor Control of Human Movement (3) Prereq.: KIN 2500. Muscle dynamics; sensory and motor neural pathways; subcortical reflexes; supraspinal mechanisms; behavioral issues.

3518 Classroom Culture in Physical Education (3)

Prereq.: KIN 2512. 2 hrs. lecture; 2 hrs. lab. Learning processes of students in the social learning environment of the physical education classroom. Focus will be on individual and group motivation, social interaction, integration of technology, and classroom management.

3519 Cadaver Prosection (1) Prereq.: KIN 2500, for Kinesiology majors or consent of instructor. Active review of human anatomical structures using cadaveric tissues.

3525 Laboratory Techniques in Exercise Physiology (1) Prereq.: credit or registration in KIN 3515. 2 hrs. lab. Laboratory sessions examining the physiological effect of different types of exercise on the functions of the human body.

3534 Scientific Basis for Exercise (3) Prereq.: KIN 3515. Two hrs. lecture; 2 hrs. lab. Historical development of chronic disease risk factors; contraindications and valid uses of exercise prescription.

3535 Exercise Testing and Prescription (3) Prereq.: KIN 3525, 3534. 2 hrs. lecture; 2 hrs. lab. For students in the fitness studies concentration. Theory and practice of fitness testing, exercise prescription, health promotion, and related concerns.

3540 Mild/Moderate Impairment and Physical Activity (3) Prereq.: EDCI 2700 and KIN 2540. Substantial observation in schools required. Focus on individuals who exhibit mild/moderate developmental disabilities including intellectual disabilities; learning disabilities; behavioral disabilities; behavioral disorders; and mild/moderate physical, sensory, and health disabilities.

3541 Severe Disabilities and Physical Activity (3) Prereq.: EDCI 2700 and KIN 2540. Substantial observations in schools required. Focus on individuals with severe intellectual, behavioral, physical, and sensory disabilities.

3545 Individuals with Disabilities in Physical Activity Programs (3) Prereq.: EDCI 2700. Credit will not be given for both this course and KIN 2540. Not open to kinesiology majors in the health and physical education concentration. Movement skills of individuals with disabilities; curriculum implementation specified in federal and state legislation.

3602 Instructor's Course in First Aid (2) 1 hr. lecture; 2 hrs. lab. For persons qualifying to teach the junior and standard Red Cross courses in aid to the injured.

3603 Organization of the School Health Program (3) Prereq.: KIN 1600. Organization of school health programs involving health services, healthful school living, school environment, school health administration, and evaluation of school health programs.

3604 Methods of Teaching Secondary Health Education (3) Prereq.: KIN 1600. 2 hrs. lecture; 2 hrs. field experiences in multicultural settings. Structure of school health education and its relationship to official and voluntary health agencies and to professional associations; modern health resources suitable for teaching health.

3605 Health and the Aging Process (3) Health conservation of human resources; emphasis on understanding attitudes and practices related to health in the aging process.

3608 Communicable and Noncommunicable Diseases (3) Etiology, prophylaxis, and control of communicable and noncommunicable diseases and impairments; cancer, diabetes, and cardiovascular, respiratory, and sexually transmitted diseases.

3609 Methods of Teaching Wellness Education (3) Prereq.: KIN 2512. 2 hrs. lecture; 2 hrs. lab. Requisite knowledge and skills for successful teaching of wellness education in K-12 settings.

3660 The Holistic Health Approach to Stress (3) Sources of stress; evaluation of stress-related diseases; techniques for promoting stress reduction; prevention of stress-related diseases.

3800 Ethical and Legal Issues in Sport (3) Introduction to basic ethical and legal principles required to successfully address managerial situations that arise in sport industry settings; ethical concepts and theories that provide the foundation for the rendering of comprehensive decisions, including but not limited to issues involving Title IX, the use of drugs, antitrust, labor, intellectual property, and religion.

3801 Sport Strategies and Planning (3) Principles and procedures involved with strategies and planning of professional and intercollegiate athletics.

3802 Program and Event Management (3) Basic concepts pertaining to the production of amateur, professional, and recreational sporting events.

3804 Financial Issues in Sport (3) Prereq.: ACCT 2000; credit will not be given for this course and FIN 3715 or 3716. Application of sound financial concepts in sport management and sport operation.

4500 Adapted Physical Activity Programs (3) 2 hrs. *lecture; 2 hrs. lab.* Preparation for teaching special activities to individuals with disabilities; organization and administration of physical activity programs.

4501 Special Topics in Kinesiology (3) May be repeated for a max. of 6 sem. hrs. of credit when topics vary. For students interested in additional study in specific aspects of kinesiology.

4505 Practicum in Human Movement Science (3) Prereq.: enrollment in the College of Education; senior standing; KIN 2500, 3513, 3514. 6 hrs. lab. Pass/fail grading. May be taken for a max. of 6 sem. hrs. of credit. Observation and practice of skills, techniques, and protocols of patient care within local clinics, hospitals, skill nursing facilities, development disability centers, and private practices.

4509 Sports Supplements (3) Introduction to federal regulations which enable supplements to be marketed; methods used to evaluate the benefits of supplements and processes used to analyze specific supplements used in sports.

4510 Knowledge Structure Approach to Skills Analysis (3) Prereq.: physical education cohort membership or consent of instructor. Analyses of the skills and subskills of selected team, dual, and individual movement activities.

4512 Lifespan Motor Development (3) Analysis of changes in motor behavior from infancy to older adulthood; current theoretical perspectives; current issues; correlates of motor development.

4513 Facilities Management (3) Preventive maintenance, facility planning, event administration, box office management, house and ground management, systems management, marketing, finance and personnel administration.

4514 Quantitative Analysis of Human Movement (3) Prereq.: KIN 3514 or equivalent. Theory and application of kinematic, kinetic, and electromyographic data acquisition and analysis in the study of human movement as it relates to performing motor skills.

4515 Sports Seminar (3) Trends and issues related to the development and maintenance of athletic abilities in a variety of sports.

4517 Sports Administration (3) Policies and practices in the administration of athletic programs in academic settings.

4519 Cadaver Dissection (3) Prereq.: KIN 2500, for Kinesiology majors or consent of instructor. Active dissection of human cadavers.

4520 Psychosocial Aspects of Physical Activity (3) Prereq.: senior or graduate standing. Psychological and sociological perspectives of physical activity; theories and research related to sport and exercise behavior; and psychological factors that influence involvement and performance in physical activity settings.

4525 Human Anatomy and Functional Impairment (3) Prereq.: KIN 2500, 3500, or consent of instructor. Anatomy of selected systems and the mechanisms and effects of impairment.

4538 Practicum in Applied Fitness (6) Prereq.: KIN 3534, 3535. 12 hrs. lab. For kinesiology majors. Pass-fail grading. Practical application of exercise testing, exercise prescription, and leadership.

4540 The Physical Education Curriculum for Children with Disabilities (3) Prereq.: KIN 3540 and 3541. Curriculum needs, implementation, and evaluation, using the Louisiana State Regulations and P. E. Needs Assessment.

4550 Reflective Teaching in Health and Physical Education (3) Prereq.: physical education cohort membership or consent of instructor. Critical issues and pedagogical practices of the reflective teacher in health and physical education.

4575 Addressing Diversity and Cultural Issues in Physical Activity (3) Concurrent enrollment in EDCI 4630. Critical theoretical perspectives of sport and physical education in American society.

4600 The School Health Program (3) Problems involved in promoting health of school children; prevention of and protection against infectious diseases; physical inspection and examination; health instruction; provision of a wholesome environment.

4601 Community Health Issues (3) Community health aspects and implications of tobacco, alcohol, drugs, venereal disease and other communicable diseases; other community health problems.

4602 Community Safety Education (3) Covers all grade levels in the school health program; community programs; home, traffic, and recreational safety; emphasis on organization and administration of these programs.

4605 Habituating and Addictive Drugs in Our Culture (3) Prereq.: KIN 1600 and senior or graduate standing. Harmless, harmful, useful, and useless chemical substances that affect physiological well-being and behavior or mood; interaction of psychological, sociological, and physiological components.

4606 Introduction to Health Promotion (3) Prereq.: PSYC 2000, junior standing. Recommended: PSYC 3083.

Psychological and behavioral perspectives of health promotion; theories and research related to health behavior change; analysis of effective interventions designed to promote health behavior change.

4800 African Americans in Sport (3) African American experiences in sport, including a survey of the history of African Americans in sport and its larger effect on African American culture in general; introduction to the historical, sociological, economic, psychological, anatomical, and physiological aspects of sport unique to African Americans.

4835 Practicum in Sport and Leisure Administration (6) Prereq.: Sport Administration majors only; students should be within two semesters of completing degree requirements or obtain permission of the department. Pass-fail grading. Practical applications of administrative techniques in a sport, leisure, or sport-related setting.

4900 Independent Study (1-3) May be taken for a max. of 6 sem. hrs. of credit. Open to advanced undergraduate or graduate students. Reading, research, and/or field work on selected topics.

7500 Practicum in Sport Management (3,6,9) Prereq.: a minimum of 21 sem. hrs. from the sport management MS program, a letter of agreement from prospective on-site supervisor, and consent of faculty advisor. Practical application of management techniques in a sport or sport-related setting; students work in a professional capacity for 10-30 hrs. per week during the semester under the guidance of the on-site supervisor.

7501 Advanced Research Methods (3) Analysis of multivariate research methods and statistical analysis used in kinesiology research.

7502 Curriculum Construction in Physical Education (3) Contemporary educational trends in curriculum theory, issues, philosophical orientation, and models derived from research and experience.

7503 Dimensions of Aging (3) Focus on physical, cognitive, and emotional aspects of biological aging; role of physical activity and lifestyle issues and their interaction with chronological aging and functional ability.

7504 Tests and Measurements in Kinesiology (3) Measurement theory applied to testing in educational, fitness, and other kinesiology settings.

7505 Problems in Kinesiology (3) May be taken for a max. of 6 hrs. of credit when topics vary. Individual study.

7507 Historical and Philosophical Foundations of Kinesiology (3)

7508 Analysis of Human Movement (3) Mechanisms involved in the production of human movement and the techniques available for scientific analysis of such movement.

7510 Motor Learning (3) Cognitive and motor processes influencing the learning of motor skills; emphasis on assessing learning, changes during learning, attention, augmented feedback, transfer of learning, and practice conditions, with implications for a variety of skill instruction and rehabilitation contexts.

7511 Administrative Problems in Kinesiology (3) Organization and management theory and techniques for administration of programs in educational and fitness settings.

7512 Motor Control (3) Prereq.: consent of instructor. Neurophysiological and behavioral issues in control of human movement; emphasis on contrast between ecological and constructionist approaches.

7513 Seminar in Physical Education Professional Preparation (3) Issues and trends in physical education; emphasis on undergraduate and graduate professional preparation.

7514 Pedagogy in Physical Education (3) Prereq.: KIN 7502 and admission to the doctoral program. Theory and research relating to systematized instruction in physical education.

7515 Theories of Achievement Motivation in Physical Activity (3) Theories of achievement motivation as they apply in a variety of physical activity settings including motor skill acquisition, sport, exercise behavior, and rehabilitation.

7517 Advanced Topics in Motor Control (3) Prereq.: KIN 7512 or consent of instructor. May be repeated for a max. of 6 sem. hrs. when topics vary. Selected topics linking advanced motor control topics across disciplines, medicine and research.

7518 Social Issues in Sport (3) Examination of the social construction of sport and the systemic issues connected to contemporary sport.

7520 Motor Development (3) 2 hrs. lecture; 2 hrs. lab. Psychomotor development of children; implications for skill learning; analyzing and planning motor development research; motor development in special children; research on youth sports; evaluation and assessment; and perceptual-motor development.

7521 Laboratory Techniques in Motor Behavior (3) Prereq.: KIN 7508 or equivalent and consent of instructor. 2 hrs. lecture; 2 hrs. lab. Techniques and equipment used in motor behavior and biomechanics labs; data acquisition and

processing techniques; hardware and software associated with computerized data acquisition and processing; timing equipment; force measuring instrumentation; motion analysis equipment; electromyography.

7522 Physical Education for Preschool and Elementary School Children (3) Essentials for a successful movement program for children at the preschool and elementary school level; philosophy, objectives, trends, teaching methods, and materials necessary for program development.

7523 Theories of Motor Skill Acquisition (3) Prereq.: KIN 7510 and 7520. For PhD students in motor learning or motor development. Issues in motor control and learning, i.e., central and peripheral mechanisms, theories of motor learning, motor programs, and short-term memory.

7525 Children and Sport (3) Open to graduate students from any area. Children's involvement in organized sports; understanding of the present structure of youth sports; research in child development, training, injuries, social psychology, skill acquisition, and coaching behavior; implications for children in sport.

7527 Seminar: Developmental Factors in Children's Motor-Skill Learning (3) Prereq.: KIN 7510 and 7520; or equivalent. For doctoral students only. Developmental learning theory and literature; effects of developmental factors on children's motor performance and learning.

7528 Sport Psychology (3) Problems of several areas of social psychology related to sport; research methodology and theories.

7530 Exercise Physiology (3) 2 hrs. lecture; 2 hrs. lab. Physical, chemical, and environmental factors influencing physical performance; bioenergetics, cardiovascular and respiratory adjustments to exercise; research relevant to conditioning and physiological responses to exercise.

7531 Structural and Functional Characteristics of the Developing Child (3) 2 hrs. lecture; 2 hrs. lab. Structural changes of growth of prepubertal and pubertal children related to function in physical activity.

7533 Exercise Testing in Health and Disease (3) Prereq.: KIN 7530. 1 hr. seminar; 4 hrs. lab. Theory and practicum in evaluating fitness, prescribing exercise, and planning and supervising group programs for adults.

7534 Exercise in Health and Disease (3) Contraindications and valid uses of exercise in mediating risk factors.

7535 Neuromuscular Aspects of Exercise (3) Prereq.: KIN 7530. Effects of exercise on muscle cell structure and function; neuromuscular integration and neural function in exercise.

7536 Cardiovascular and Respiratory Function in Exercise (3) Prereq.: KIN 7530. 2 hrs. lecture; 2 hrs. lab. Mechanics of cardiovascular and respiratory function related to exercise.

7537 Exercise and Environment (3) Prereq.: KIN 7530. 2 hrs. lecture; 2 hrs. lab. Effects of environmental conditions on performance of various types of exercise.

7538 Practicum in Cardiac Rehabilitation (6) Prereq.: KIN 7530, 7533, 7534, 7551. Pass-fail grading. Minimum on-site requirement is 20 hours per week. Important for exercise specialist, exercise leader, or graded exercise technician certification. Involvement in the practical application of exercise testing, exercise prescription and exercise leadership for cardiac patients.

7539 Laboratory Techniques in Exercise Physiology (3) Prereq.: KIN 7530; 1 hr. lecture, 4 hrs. lab; exercise physiology and college chemistry recommended. Laboratory techniques in exercise physiology; principles of metabolic measurement and assay procedures for quantification of dynamic changes in blood chemistry during exercise.

7540 Motor Abilities of Individuals with Disabilities (3) Prereq.: KIN 4500 or 4540 or equivalent. Structure of gross and fine motor abilities of individuals with disabilities; assessment of movement skills and physical fitness for individuals with disabilities.

7541 Motor Activity Programming for Individuals with Disabilities (3) Prereq.: KIN 7540. Motor activity programs developed from empirical research studies compared to those of an intuitive basis; planning for inclusive settings; implications of federal and state regulations.

7542 Program Approaches for Adapted Physical Activity (3) Prereq.: KIN 7541. Open only to doctoral students. Survey of approaches and strategies for promoting physical activity and healthy lifestyles for individuals with disabilities.

7550 Advanced Exercise Physiology (3) Prereq.: KIN 7530; 2 hrs. lecture; 2 hrs. lab; college chemistry, mathematics, physics recommended. Quantitative approach to both systematic and cellular control during exercise.

7551 Exercise Electrocardiography: Principles and Practice (3) Prereq.: KIN 7530 or consent of instructor. Physiological bases, practical considerations, and rhythm

identification of resting and exercise electrocardiograms.

7560 Fall Practicum in Health and Physical Education (5) Prereq.: physical education cohort membership or consent of instructor. 1 hr. lecture; 8 hrs. lab. Pass-fail grading. First teaching practicum in local schools.

7561 Spring Practicum in Health and Physical Education (5) Prereq.: physical education cohort membership or consent of instructor. 1 hr. lecture; 8 hrs. lab. Pass-fail grading. Second teaching practicum in local schools.

7570 Critical Issues in Teaching Health and Physical Education (3) Prereq.: physical education cohort membership or consent of instructor. Critical theory and research related to pedagogical practices in health and physical education.

7575 The Teacher-Researcher in Health and Physical Education (3) Prereq.: physical education cohort membership or consent of instructor. Analysis of teacher-researcher literature; its application to teaching health and physical education.

7580 Research Project in Health and Physical Education (3) Prereq.: physical education cohort membership and completion of KIN 7560 and 7561 or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Development, completion, and presentation of a research problem in teaching health and physical education that grows out of fifth-year clinical experiences and course work.

7601 Changing Health Behavior (3) Motivation and determinants of health behavior; behavior change strategies designed for utilization in individual and group health education programs; promoting innovative health education programs in schools and the community.

7620 Epidemiological Approach to Community Health (3) Prereq.: EXST 4001 or equivalent. Vital health statistics via the disease model and its determinants; community organization and program development related to community health education, both qualitatively and quantitatively.

7900 Introduction to Research Methods (3)

7999 Seminar in Selected Topics in Kinesiology (1-3) May be taken for a max. of 6 sem. hrs. credit. Topics vary.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Independent Research (1-9) May be taken for a max. of 9 sem. hrs. credit. Pass-fail grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

LANDSCAPE ARCHITECTURE • LA

General education courses are marked with stars (★).

1101 Landscape Representation I (3) 6 hrs. studio.

Freehand and mechanical representation and observational skills used in design conceptualization; emphasis on the development of a vocabulary, basic skills, and techniques of landscape architecture representation.

1102 Landscape Representation II (3) Prereq.: LA 1101. 6 hrs. studio. Developing skills in computer-aided visualization and illustrative documentation of landscapes; introduction to digital imaging, drafting, and photo manipulation.

★ **1201 Introduction to Landscape Architecture (3)**

Introduction to the profession of landscape architecture for non-majors; overview of professional concerns and responsibilities; awareness of natural and planned landscapes, as well as, the importance of using land in an efficient and attractive manner.

1202 World Landscape Architecture (3) Exploration of contemporary landscape design from around the world, including historic landscapes and gardens; urban plazas, and pedestrian areas; parks and infrastructure.

★ **1203 Views of the American Landscape (3)** Concepts, patterns, and themes that shape human attitudes and activities concerning the American landscape; natural systems as links between managed landscapes and built environments; environmental and conservation ethics.

1204 Cities of the World (3) Exploration of the physical, social, and environmental factors which contribute to the development of cities from historical to contemporary perspective.

1205 Landscapes for Recreation and Tourism (3) Development and use of landscapes for recreation and tourism; interrelationships of cultural and natural influences.

2001 Landscape Design I (6) Prereq.: LA 1102. Consent of school director. 12 hrs. studio. Introduction to two- and three-dimensional design; spatial sequence, meaning, and dynamic change; application to a simple design.

2002 Landscape Design II: Site Design (6) Prereq.: LA 2001 or equivalent. 12 hrs. studio. Development of landscape design processes as applied to small-scale projects; introduction of earth structures, construction materials, and plants.

2101 Landscape Representation III (3) Prereq.: LA 1101 and 1102. 6 hrs. studio. Advanced representation techniques developing skills of visualization and representation using freehand, mechanical, and digital imaging in design projects.

2201 Landscape History I (3) Development of earliest landscape traditions; relationship of humans to landscape in major cultural areas of the ancient world; development of landscape traditions in western Europe and America from the 15th to 19th centuries.

2301 Landscape Technology I: Land Design (3) Prereq.: MATH 1021 and 1022 or equivalent; and LA 1102 or equivalent; consent of instructor. 2 hrs. lecture; 2 hrs. studio.

Introduction to basic surveying for landscape architects; surveying systems and legal land descriptions; introduction to landscape architectural construction systems and the relationship among landform/earth, plants, and structures, topographic mapping conventions, grading design, drainage and water management, roadway design and alignment.

2401 Landscape Ecology (3) Prereq.: GEOG 2051 and RNR 1001 or equivalent. Class includes field trips. Application of ecological principles and relationships to resource, recreation, and landscape planning, with attention to conservation ethics and legal regulations leading to sustainability of the landscape.

3001 Landscape Design III: Site Planning and Design (6)

Prereq.: LA 2002 and 2101 and 2201 or equivalent. 12 hrs. studio. Required field trip. Students are responsible for paying travel expenses associated with the course.

Arrangement of buildings, circulation, and other landscape design elements; emphasis on earthwork and drainage.

3002 Landscape Design IV: Community Design (6)

Prereq.: LA 2101 and 3001. 12 hrs. studio. Landscape planning and design at the community and neighborhood scale; emphasis on relationships of uses, transportation infrastructure, green infrastructure, public services, and a mix of housing and commercial types.

3201 Landscape History II (3) Prereq.: LA 2201. Major landscape movements in the 19th and 20th centuries; theory and aspects of contemporary practice of landscape architecture.

3301 Landscape Technology II: Grading, Drainage, and Roads (3) Prereq.: LA 2301 or equivalent; consent of instructor. 2 hrs. lecture; 2 hrs. studio. Advanced grading and drainage with emphasis on aesthetic aspects of grading and best management practices and sustainability, landscape architectural systems and infrastructures including advanced roadway design and alignment.

3302 Landscape Technology III: Design Detailing (3)

Prereq.: LA 3301 or equivalent; consent of instructor. 2 hrs. lecture; 2 hrs. studio. Relationship between design and implementation through construction processes, detailing as an extension of design, landscape architectural materials, basic structural theory, detailing and structures, technical specifications as a means of ensuring design intent.

3401 Plant Materials I (3) Prereq.: LA 2401 for undergraduate students. 1 hr. lecture; 4 hrs. lab.

Identification and study of plant materials with specific recognition of the visual and ecological characteristics of plants used in landscape design.

3402 Plant Materials II (3) Prereq.: LA 3401. 1 hr. lecture; 4 hrs. lab. Continuation of LA 3401 with the inclusion of basic principles of planting design.

4001 Landscape Design: Landscape Planning and Development V (6) Prereq.: LA 3002 and 3302. 12 hrs. studio. Landscape planning and design from the regional to the site development scale; emphasis on generating planning and design strategies for urbanization and development that are informed by an understanding of the ecology and culture of the region, and based on principles of sustainability.

4002 Landscape Design VI: Specialization (6) Prereq.: LA 4001. 12 hrs. studio. Required field trip. Students are responsible for paying travel expenses associated with the course. Studio projects addressing various aspects of landscape architecture.

4101 Advanced Digital Representation (3) Prereq.: LA 1102, 2101, or equivalent. Advanced techniques in digital representation, such as 3-D modeling, terrain modeling, animation, advanced imaging, and rendering.

4201 Theory and Methods of Landscape Planning (3) 2 hrs. lecture; 2 hrs. lab. Principal theoretical literature in landscape analysis and planning; application of theories and methods; basic skills in the use of GIS, global positioning systems (GPS), and remote sensing/image processing technology.

4203 Reading the Louisiana Landscape (3) Advanced seminar exploring the use of diverse sources to research and understand regional landscapes and apply these findings to project-based work.

4204 Planning Disaster Resilient Communities (3) Theory and methods of planning disaster resilient communities considering hurricanes, earthquakes, cyclones, tsunamis, and landslides chiefly in regions located near low-lying coastal areas and countries bordering the Pacific Rim.

4301 Landscape Technology IV: Specialization (3) Prereq.: LA 3302 or equivalent. 2 hrs. lecture; 2 hrs. studio. Specialty topics in landscape architecture construction and design implementation.

4501 Field Studies in Landscape Architecture (1-3) May be taken for a max. of 6 hrs. of credit. Elective field trip. Students are responsible for paying travel expenses associated with this course. Field trip to landscape architectural office, projects, historic sites, and schools throughout the U.S. and abroad.

4502 Independent Study in Landscape Architecture (3)

Prereq.: consent of School director. Independent study proposals must be pre-approved by the supervising faculty member. Program of individual study under faculty guidance, including auditing lectures, reading, and exercises as needed to develop skills in methods of inquiry related to the area of specialty.

4503 Advanced Projects in Landscape Architecture (3) Prereq.: consent of instructor. Faculty directed projects for small groups of students investigating specific areas of research and practice.

4504 Advanced Elective in Landscape Architecture (3) Prereq.: permission of instructor. Research practice and application in landscape architecture; small groups will use lectures, discussions, presentations, and other formats to explore advanced topics.

4505 Special Studies in Landscape Architecture (1-2) Prereq.: consent of School director. Program of study under faculty guidance. Independent study proposals must be pre-approved by supervising faculty member and the School director.

5001 Landscape Design VII: Urban Landscape Design (6) Prereq.: LA 4002, 4201, 4301. 12 hrs. studio. Required field trip. Students are responsible for paying travel expenses associated with the course. Investigation of urban structures and systems and design of urban landscapes and elements.

5002 Landscape Design VIII: Capstone Project (6) Prereq.: LA 5001, 5201. 12 hrs. studio. Intensive development of a comprehensive landscape design and/or independent design project.

5201 Research Seminar (3) Prereq.: LA 3201, 4201. Intensive and critical review of major landscape theories and issues; identification and preparation for a comprehensive final project.

5301 The Practice of Landscape Architecture (3) Prereq.: LA 3302, or consent of instructor. Professional practice for landscape architects including issues associated with licensure, practice types, professional services, business developments, contracts, and project management.

7001 Graduate Landscape Design I: Basic Design (6) Prereq.: consent of the school. 12 hrs. studio. Introduction to two- and three-dimensional design; spatial sequence, meaning and dynamic change; application to simple landscape designs.

7002 Graduate Landscape Design II: Site Design (6) Prereq.: LA 7001. 12 hrs. studio. Arrangement of buildings, circulation, and other landscape design elements; emphasis on earthwork and drainage.

7003 Graduate Landscape Design III: Community Design (6) Prereq.: LA 7002 and 7101 or consent of the school. 12 hrs. studio. Landscape planning and design at the community and neighborhood scale; emphasis on relationships of uses, transportation infrastructure, green infrastructure, public services, and a mix of housing and commercial types.

7004 Graduate Landscape Design IV: Landscape Planning and Development (6) Prereq.: consent of the school. 12 hrs. studio. Landscape planning and design from the regional to the site development scale; emphasis on generating planning and design strategies for urbanization and development that are informed by an understanding of ecology and culture of the region and based on principles of sustainability.

7005 Graduate Landscape Design V: Urban Landscape Design (6) Prereq.: LA 7004. 12 hrs. studio. Investigation of urban structures and systems and design of urban landscapes and elements.

7006 Graduate Landscape Design VI: Final Project (6) Prereq.: LA 7005, 7201. 12 hrs. studio. Intensive development of a comprehensive landscape design and/or independent design project.

7101 Graduate Landscape Representation I (3) 6 hrs. studio. Freehand and mechanical representation techniques, tools, and media used in designing and illustrating landscape architectural projects; emphasis on the development of a vocabulary, basic skills, and theory of landscape architectural representation.

7102 Graduate Landscape Representation II (3) Prereq.: LA 1102 and 7101. 6 hrs. studio. Advanced representation techniques developing skills of visualization and representation using freehand, mechanical, and digital imaging design projects.

7201 Research Methods (3) Concepts of qualitative research; skills in finding and using research material; landscape architectural research trends; evaluation of research; application of research to landscape design.

7401 Graduate Landscape Ecology (3) *Required field trips for which a deposit is required at registration.* Basic principles of ecology and environmental systems; application of ecological principles and relationships to resource, recreation, and landscape planning, with attention to conservation ethics and legal regulations leading to sustainability of the landscape.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

LATIN • LATIN

General education courses are marked with stars (★).

1001 Elementary Latin (4) Nonlaboratory reading course in classical Latin; emphasis on comprehension rather than grammar; repetition of controlled vocabulary and contextual clues used to read extensive passages of simple Latin.

★ **2051 Intermediate Latin (4)** *Prereq.: LATN 1001 or equivalent.* Reading comprehension approach to language continued in extensive passages of moderate difficulty; vocabulary building and basic Latin grammatical constructions.

★ **2053 Intermediate Latin (3)** *Prereq.: LATN 2051 or equivalent.* Nonlaboratory comprehension approach includes material of the difficulty of 1st century Latin poetry and prose.

★ **2065 Golden Age Narrative Poetry (3)** *Prereq.: LATN 2053 or equivalent.* Readings from the narrative poets, including selections from Vergil's *Aeneid* and/or from Ovid's *Metamorphoses*.

★ **2066 Golden Age Prose (3)** *Prereq.: LATN 2053 or equivalent.* Readings from Roman prose writers (excluding the historians); the major speeches, letters, and/or philosophical works of Cicero.

★ **2073 Roman Historians (3)** *Prereq.: LATN 2053 or equivalent.* Readings from Roman historians; selections from Livy and/or Tacitus; prose style and philosophy of history of the author(s).

★ **2074 Golden Age Lyric Poetry (3)** *Prereq.: LATN 2053 or equivalent.* Readings from the lyric poets; selections from the *Carmina* of Catullus and/or the *Odes* of Horace, with attention to emotional content.

4001 Intensive Latin Language (3) *A specialized course intended to provide a reading knowledge of Latin. For graduate students and advanced undergraduates for whom a familiarity with another foreign language is strongly recommended. Successful completion of this course will be regarded as sufficient preparation for LATN 4006. Does not count toward satisfying foreign language requirement for undergraduates, although hours may count toward baccalaureate. Credit will not be given for both this course and introductory Latin courses.* Syntax, grammar, and lexicology of Latin; graduated readings from representative authors.

4002 Roman Satire (3) Readings from Petronius' *Satyricon*, Martial, and Juvenal for their humor, with attention to evidence of the lives and language of ordinary Roman people.

4003 Readings in the History of Livy (3) Selections from the *History* of Livy; literary and historical significance.

4004 Roman Comedy (3) Reading of representative plays of Plautus and Terence, with attention to dramatic techniques and comic situations.

4006 Medieval and Renaissance Latin (3) Readings from the time of the medieval Latin writers to Milton.

4007 Latin Prose Composition (3) Practice in writing Latin prose; emphasis on grammar and syntax of classical Latin, using Ciceronian prose style as the model.

★ **4010 Survey of Latin Literature (3)** Readings in major Roman authors from the beginning to Ammianus Marcellinus; supplementary readings in English in the literary, political, and social history of Rome.

4023 Special Topics in Latin Poetry (3) *May be taken for a max. of 6 sem. hrs. of credit.* Readings and studies in the works of one or more major poets of the Roman Republic or Roman Empire.

4024 Special Topics in Latin Prose (3) *May be taken for a max. of 6 sem. hrs. of credit.* Readings and studies in the works of one or more of the major prose writers of the Roman Republic or Roman Empire.

4120 Roman Elegy (3) Readings in the major Latin elegiac poets such as Ovid, Propertius, and Tibullus; attention to poetic technique and to Roman attitudes toward love and women.

4915 Independent Work (1-3) *May be taken for a max. of 6 sem. hrs. of credit.* Permission of department required. Readings in Latin literature directed by a senior faculty member.

7003 Seminar in Latin Literature (3) *May be taken for a max. of 15 hrs. of credit as topics vary.*

LIBERAL ARTS • LIBA

Liberal Arts 7000 and 7900 are required.

7000 Liberal Arts: Methods of Inquiry (3)

Interdisciplinary study in the liberal arts; modes of inquiry in different disciplines, common themes in the humanities, and means of integrating these into the whole.

7900 Liberal Arts: Themes and Commonalities (3) Major ideas in the liberal arts as reflected in exemplary published studies and student research; the cultural function of the humanities.

7950 Special Topics in the Liberal Arts (3) *Prereq.: credit in LIBA 7000 or consent of instructor. May be taken for a max. of 9 hrs. of credit when topics vary.* Interdisciplinary studies in the liberal arts, with attention to major periods, movements, themes, or problems in Western culture.

7990 Independent Study (1-3) *Prereq.: credit or concurrent enrollment in LIBA 7000. May be taken for a max. of 6 sem. hrs. of credit.* Directed individual readings by the graduate faculty.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

LIBRARY AND INFORMATION SCIENCE • LIS

1001 Library Research Methods and Materials (1)

Fundamentals of college-level research; location, evaluation, and use of information for research needs; introduction to the library and to the organization, access, and retrieval of information; hands-on experience in a variety of printed and electronic resources.

2001 Introduction to Information Technologies (3) *Credit will not be given for this course and CSC 1100, EXST 2000, and ISDS 1100.* Introduction to hardware, software, networking, and telecommunications issues; use of application software, electronic databases, and search engines.

7002 Information Services (3) *Prereq.: major or permission of department.* Preparation for reference and bibliographic services; selection and use of general, scholarly, and specialized reference resources in various subject fields.

7003 Principles of Collection Management (3) Basic principles of collection development and management, including community and user needs analysis, selection strategies, and tools.

7004 Principles of Management for Librarians and Information Specialists (3) *Prereq.: major or permission of department.* Basic functions of management and their application to the operations of libraries and information service agencies.

7005 Foundations of Library and Information Science (3) *Prereq.: major or permission of department. Must be taken in the first semester of residence or prior to registration for the tenth hour of course work to be counted for the MLIS degree, whichever occurs first.* History, theory, practice, philosophy, and current organization of the information service professions.

7008 Information Technologies (3) *Prereq.: major or permission of department.* Hardware, software, networking, and telecommunications issues relating to technologies used in libraries and information settings; experience with appropriate software packages and search systems.

7011 Information Needs Analysis (3) *Prereq.: major or permission of department.* User-centered approaches to meeting information needs of individuals and communities; community analysis, user studies, and reference interview.

7012 Bibliographic Organization and Resource Development (3) *Prereq.: major or permission of department.* Conceptual foundations of bibliographic organization and resource development; basic principles and methods of description, organization, and access; bibliographical lists; principles, methods, issues, and trends of resource selection for user populations.

7013 Evaluation of Information Systems (3) *Prereq.: major or permission of department.* Evaluation of information system performance; systems analysis techniques; development and use of performance measures; strategies for improving system performance.

7101 Media and Services for Children (3)

Developmentally appropriate library and information services for children, ages birth to eleven; emphasis on literature and uses of literature in schools and libraries.

7102 Media and Services for Young Adults (3)

Developmentally appropriate library and information services for young adults, ages 15 to 18; emphasis on literature and uses of literature in schools and libraries.

7103 Media and Services for Young Adolescents (3)

Developmentally appropriate library and information services for young people, ages 11 to 14; emphasis on literature and its value in the lives of pubescent youths.

7106 Advanced Topics in Collection Management (3)

Prereq.: LIS 7003 or 7012 or consent of instructor. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Advanced study in collection management; emphasis on formats and special conditions, such as serials, audio-visual materials, rare and out-of-print materials, foreign book trade, or alternative literatures or procedures, such as evaluation or acquisitions.

7107 Use of Media in Libraries (3) Examination of media as translated into a variety of library settings and as related to various library patron groups; problems and trends with types of media, software and hardware.

7200 Resources for the Humanities (3) Information resources in major areas of the humanities.

7201 Resources for the Social Sciences (3) Information resources in major areas of the social sciences.

7202 Resources for Science and Technology (3) Information resources in major areas of pure and applied sciences.

7203 Sources of Government Information (3) Government publications as products of government activity and as sources of information.

7205 Business Information Resources (3) Information resources in major areas of business and economics.

7400 School Media Centers (3) Philosophy and objectives of library media centers and information services in schools; emphasis on the roles and responsibilities of the library media specialist.

7401 Academic Libraries (3) Study of libraries in higher education; their development, organization, financing, and administration; human resources; collections; services; and futures.

7402 Cooperatives, Consortia, and Networks (3) Major types of local, state, regional, and national cooperation among all types of libraries, including organization, governance, services, and uses of technology.

7403 Special Libraries and Information Centers (3) Major types of special libraries; their purpose and function in business, government, and other organizations; principles of administration; technical processing; reference services; special methods, routines, and records.

7404 Health Sciences Information Centers (3) Administration, organization, function, and services of health sciences libraries; collection development and reference emphasis on major print and electronic information resources.

7405 Public Libraries (3) Role of the public library in past and present American society; its relationship to the social and political communities.

7406 Literature and Methods for Readers' Advisory Services (3) Value and role of leisure reading in public libraries; interview techniques, support processes, and bibliographic resources for providing services to adults and older adolescent readers.

7408 Principles of Archives Management (3) Identification, collection, arrangement, description, preservation, and use of the full range of historical documents in both institutional and private repositories.

7409 Human Computer Interaction (3) Study of interactions between humans and information systems, leading to more effective system design and evaluation; human cognition, user modeling, system design approaches, evaluation methods.

7410 Digital Libraries (3) *Prereq.: LIS 7008 or consent of instructor.* Current activities, models, methods and tools for digital library creation and support; theoretical and practical aspects of digital library creation, using a variety of formats and approaches.

7501 Management of Information Systems (3) Management of the selection, acquisition, and implementation of computer systems within the context of library and information service agencies.

7502 Networks for Information Centers (3) *Prereq.: LIS 7008 or permission of instructor.* Standards, policy, theory, and technical issues related to electronic networks; impact on information transfer and organizations.

7503 Information Technology and Public Policy (3) Examines the impact of information technology and public policies on economic, social and political systems; focuses on major public policies related to information technologies within the United States and selected countries.

7504 Preservation Management of Physical Records (3) Study of preservation as a management function, highlighting causes of deterioration of print and non-print collections, as well as policies and practices that ensure their maximum usable life.

7508 Management of Knowledge-Based Assets in Organizations (3) Analysis of the nature and uses of knowledge-based assets in organizations; systems for managing knowledge-based assets will be considered in the context of institutions' overall information ecology; examination of the role of librarians and information professionals in organizing and providing

knowledge-based assets.

7509 Oral History (3) Introduction to oral history methods and theory; construction and administration of oral history projects; conducting interviews; preservation of interviews in archives and libraries.

7510 Web site Design and Management (3) Design, produce, and manage effective web sites; understanding of the World Wide Web environment and related technologies.

7603 Electronic Description of Archival Materials (3) Prereq.: LIS 7408 or consent of instructor. Application of document analysis to produce MARC records, Dublin Core records, and SGML/XML tagging; overview of electronic publishing and Web publications of archival materials and finding aids.

7604 Principles of Records Management (3) Application of systematic and scientific controls to recorded information; life-cycle concept, legal requirements, and implications of technology, as well as records inventory, appraisal, classification, retention, and protection.

7605 Information Science (3) History and philosophy of information science and information retrieval; survey of current research.

7606 Abstracting and Indexing (3) Principles of abstracting and indexing for print and electronic environments; controlled vocabulary and thesaurus development; manual and computerized abstracting and indexing techniques; effectiveness of abstracting and indexing methods.

7607 Electronic Information Resources (3) Prereq.: LIS 7002 or permission of instructor. Use of electronic information resources and systems; analysis and comparison of various search mechanisms.

7608 Cataloging and Classification (3) Principles underlying description, subject analysis, classification of library resources and authority control; current national standard cataloging rules, Library of Congress Subject Headings, Dewey Decimal Classification, Library of Congress Classification, and MARC (machine-readable cataloging) formats are emphasized.

7609 Seminar on Cataloging and Classification (3) Prereq.: LIS 7608 or consent of instructor. Detailed analysis of cataloging and classification of special resources, including serials, electronic and cartographic resources, kits, music, manuscripts, relia, including formatting of bibliographic representations; intensive survey of conceptual foundations of descriptive and subject metadata.

7610 Information Retrieval Systems (3) See CSC 7481.

7611 Management of Electronic Records (3) Prereq.: LIS 7408. Study and evaluation of the impact of automation on archival theory and practice. Analysis of models and strategies developed by archivists to manage electronic records.

7700 History of Books and Libraries (3) History and cultural relationships of the book and libraries; rise of the library as a formal institution within society.

7701 Seminar in History of Archives and Record Keeping (3) Origins, organization, and development of records, record keeping systems, and archival institutions, from the ancient world through the twentieth century.

7702 Seminar in Advanced Archival Appraisal (3) Appraisal and selection of archival materials from both a theoretical and a practical perspective. Extensive reading in the archival literature to form familiarity with the evolution of appraisal theory and current practices in the field.

7703 Seminar in Advanced Archival Access (3) History of archival arrangement and description, in depth investigation of the issues arising around access to archival materials in the digital world.

7800 The Art and Practice of Library Storytelling (3) Role of storytelling as a form of communication; preparation and presentation of stories for all age groups; planning story programs.

7801 The Illustrator as Storyteller (3) Study of effectiveness of illustrators in telling stories from children's literature; evaluation of artistic media in review sources; survey of works of noted children's books illustrators.

7807 Information Literacy Instruction (3) Theories, techniques, strategies, and current practice for teaching the effective and efficient use of academic, school, public, and special library resources.

7809 Research in Library and Information Science (3) Prereq.: LIS 7013 or permission of instructor. Research methodology applicable to library and information phenomena; definition of research problems, selection of inquiry tools, and data collection; emphasis on evaluation of research.

7810 Sources of Music Study & Research (3) See MUS 7600.

7900 Field Experience in Library and Information Services (3) Prereq.: completion of 24 hrs. of LIS courses, and permission of instructor. Preparation for course begins semester prior to registration. 120 hrs. per semester at field site. Experience in management of library and information services, such as cataloging, reference, technical services, or

automation.

7901 Issues in Library and Information Science (1)

Prereq.: major or permission of department. Pass-fail grading. All graduating students are expected to participate in discussions of contemporary professional issues.

7902 Field Experience in School Media Centers (3)

Prereq.: completion of 24 hrs. of LIS courses, including LIS 7101, 7102, and 7400, and permission of instructor. Preparation for course begins semester prior to registration. 120 hrs. per semester at field site. Experience in administration and management of school libraries.

7903 Field Experience in Special Libraries and Information Centers (3) Prereq.: completion of 24 hrs. of LIS courses, including LIS 7403, and permission of instructor. Preparation for course begins semester prior to registration. 120 hrs. per semester at field site. Experience in administration and management of special libraries.

7904 Field Experience in Academic Libraries (3) Prereq.: completion of 24 hrs. of LIS courses, including LIS 7401, and permission of instructor. Preparation for course begins semester prior to registration. 120 hrs. per semester at field site. Experience in administration and management of academic libraries.

7905 Field Experience in Public Libraries (3) Prereq.: completion of 24 hrs. of LIS courses, including LIS 7405, and permission of instructor. Preparation for course begins semester prior to registration. 120 hrs. per semester at field site. Experience in administration and management of public libraries.

7906 Field Experience in Health Sciences Information Centers (3) Prereq.: completion 24 hrs. of LIS courses, including LIS 7404, and permission of instructor. Preparation for course begins semester prior to registration. 120 hrs. per semester at field site. Experience in administration and management of health sciences libraries.

7909 MLIS Directed Independent Study (1-3) May be taken for a max. of 6 sem. hrs. credit.

7910 Special Topics in Archival Science (1-3) Prereq.: major or permission of instructor. May be taken for a max. of 18 sem. hrs. of credit when topics vary.

7911 Special Topics in Information Science (1-3) May be taken for a max. of 18 sem. hrs. of credit when topics vary.

7912 Special Topics in Library Science (1-3) May be taken for a max. of 18 sem. hrs. of credit when topics vary.

7913 Field Experience in Archives (3) Prereq.: completion of 24 hrs. of LIS courses including LIS 7603, and permission of instructor. Preparation for course begins semester prior to registration. 120 hrs. per semester at field site. Experience in administration and management of archives.

7914 CLIS Directed Independent Study (1-3) Prereq.: MLIS or equivalent. May be taken for a max. of 12 sem. hrs. credit.

8000 Thesis Research (1-9 per semester) "S"/"U" grading.

LIFE COURSE AND AGING • LCA

2000 Interdisciplinary Seminar in Aging (1) Contemporary issues in aging; preparation for the study of aging in contemporary society.

LINGUISTICS • LING

1051 Spoken American English (3) Prereq.: consent of instructor or international student counselor.

Undergraduates only. Weekly individual work in the Speech Laboratory. Theoretical and practical treatment of pronunciation of American English for students of other languages; phonology, stress, intonation, and rhythm through drills, exercise and public speaking.

4008 History of the German Language (3) See GERM 4001.

4011 Topics in Advanced Logic (3) Prereq.: PHIL 4010. See PHIL 4011.

4060 Language and Culture (3) See ANTH 4060.

4064 Pidgin and Creole Languages (3) See ANTH 4064 and FREN 4064.

4150 Phonetics (4) See COMD 4150.

4153 Acoustics of Speech and Hearing (3) See COMD 4153.

4310 Studies in Language (3) See ENGL 4310.

4380 Speech and Language Development (3) See COMD 4380.

4600 Introduction to Russian Linguistics (3) See RUSS 4600.

4710 Introduction to Linguistics (3) See ENGL 4710.

4711 History of the English Language (3) See ENGL 4711.

4712 Roots of English (3) See ENGL 4712.

4713 Syntax (3) See ENGL 4713.

4714 Phonology (3) See ENGL 4714.

4715 Semantics (3) See ENGL 4715.

4716 Introduction to Sociolinguistics (3) See ENGL 4716.

4750 Independent Research in Speech Science or Linguistics (1-3) See COMD 4750.

4914 Philosophy of Language (3) See PHIL 4914.

7060 Conversation and Discourse (3) See ANTH 7060.

7712 Topics in Historical Linguistics (3) See ENGL 7712.

7713 Topics in Syntax and Semantics (3) See ENGL 7713.

7714 Topics in Sociolinguistics (3) See ENGL 7714.

7715 Topics in Language Acquisition (3) See ENGL 7715.

7750 Special Topics in Linguistics (3) See COMD 7750.

7752 Seminar in Linguistics (3) See COMD 7752.

7754 Psycholinguistics: Linguistic Perspectives (3) See COMD 7754 and PSYC 7754.

7755 English for Speakers of Other Languages: Methods and Materials (3) See COMD 7755.

7756 Independent Research: Phonetics and Linguistics (1-3) See COMD 7756.

7909 Selected Topics in Anthropology (3) See ANTH 7909.

7910 Seminar (3) See PHIL 7910.

7962 Field Methods in Linguistics (3) See ANTH 7962.

7999 Research in Anthropology (1-6) See ANTH 7999.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

LOUISIANA STATE UNIVERSITY • LSU

1001 Freshman Seminar (1) Open to freshmen only.

Integration into the academic life of the campus, including orientation to the University's policies and resources, its history, and traditions; development of essential academic skills, personal growth/self-awareness, and career exploration; instill a sense of community on campus and beyond.

MANAGEMENT • MGT

2000 Innovation and Creativity (3) Prereq.: Admitted into the College of Business and Entrepreneurship Concentration or permission of instructor. The course focuses on the role of creativity and innovation in product, service, or idea generation that may eventually lead to business formation and commercialization; barriers to creativity and innovation; alternative problem-solving approaches.

3000 Petroleum Land Management Practice (1) V Open only to petroleum land management majors. Required of petroleum land management majors; waived only by consent of department. Pass-fail grading. A minimum of 6 weeks of full-time employment by a firm participating in the program.

3001 Petroleum Land Management (3) V Practical and evidentiary aspects of petroleum land management; principles, and techniques derived from a synthesis of legal and geographical sciences; legal effects of various procedures of boundary locations for petroleum properties; petroleum land practices concerning utilization, a real association, and environmental impacts of drilling activity; use of topographical and historic maps, map compilations, historical cartography, air photos, archival records, and field techniques; some focus on coastal Louisiana and the Gulf South.

3010 Family Business Management (3) Prereq.: ACCT 2001 and 2101 or 3001; ECON 2000, 2010; ISDS 1100 or 1101 or 1102; MKT 3401. Family business culture; entrepreneurial influences; key issues and conflicts; career planning; counseling and consulting; professional support relationships; survival skills as a son or daughter in a family business.

3111 Entrepreneurship (3) S Prereq.: ISDS 2000, FIN 3715 or 3716, MKT 3401 (credit or concurrent enrollment) or permission of instructor. Principles of entrepreneurship; feasibility studies; financial and location analysis; marketing; promotion; management; venture capitalism; legal considerations.

3115 Financing and Legal Aspects of Entrepreneurship (3) See FIN 3115.

3200 Principles of Management (3) Management functions, including planning, organizing, staffing/human resource management, leading/interpersonal influence, and controlling in both domestic and international spheres.

3203 Independent Study: Advanced Management Topics (1-6) Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. of credit. Independent research under direction of a faculty member.

3211 Business and Society (3) Prereq.: senior standing. Open only to College of Business students; open to others with permission of department. Social roles of organizations whose primary function is the accumulation of profits; emphasis on current issues; historical

development of business-society relationships.

3280 Management Internship (3) *Prereq.: junior or senior standing. May be taken for a max. of 6 sem. hrs. of credit.* Students, supervised by a management faculty member and an approved business executive, will follow a predetermined schedule of activities while working for a business firm. Hands-on experience in the fields of management, human resource management, organizational behavior, small business management, entrepreneurship, and administrative practices.

3320 Human Resource Management (3) *Prereq.: MGT 3200.* Human resource functions, including planning, recruitment, selection, development, maintenance, and reward of employees; relationships with environment and employee associations.

3500 Introduction to Labor Relations (3) *F,S Prereq.: Open only to College of Business students; open to others with permission of department.* Management's response to organized labor in the workplace; emphasis on U.S. unionization development; government regulation of labor-management relations; union structure, political activity, collective bargaining, and contract administration.

3512 Public Sector Labor Relations (3) *S Prereq.: MGT 3500.* Labor-management relations in government employment; variations in labor regulations in federal, state, and local government; role of third-party neutrals in public sector bargaining.

3513 Labor-Management Conflict and Cooperation (3) *F Prereq.: Open only to College of Business students; open to others with permission of department.* In-depth examination of issues important to workplace conflict resolution; topics include, but are not limited to, negotiation strategies and tactics, alternative dispute resolution procedures, employee-management cooperation, and/or collective bargaining.

3830 Strategically Managing Organizations (3) *Prereq.: FIN 3716, MGT 3200, and MKT 3401 or 3402. Open only to E. J. Ourso College of Business students; open to others during the final semester of course work. An honors course, MGT 3831, is also available. Credit will not be given for both this course and MGT 3831. May be taken only during the final semester of course work.* Analyzing strategic situations and decision making based on these analyses to ensure the success of for-profit and non-profit organizations.

3831 HONORS: Strategically Managing Organizations (3) *Same as MGT 3830, with special honors emphasis for qualified students. Credit will not be given for this course and MGT 3830.*

4010 Special Topics in Entrepreneurship (3) *Prereq.: MGT 3111 or permission of instructor. May be taken for a max. of 6 sem. hrs. of credit when topics vary.* In-depth coverage of special topics.

4020 Internship in Entrepreneurship (3) *Prereq.: MGT 3111 or permission of instructor. May be repeated for a max. of 6 sem. hrs. Gaining first-hand knowledge of the business start-up process: practical hands-on experience in business-plan formation.*

4030 Independent Study in Entrepreneurship (3) *Prereq.: MGT 3111 or permission of instructor. May be repeated for a max. of 6 sem. hrs. credit when topics vary.* Detailed study of a specific aspect of entrepreneurship.

4100 Consulting Field Project (3) *Prereq.: MGT 3111; Senior standing, or permission of instructor.* Strategic focused field based project learning experiences and opportunities in public and private organizations. Team-based approach to offering consulting advice to organizations with the goal of improving their performance. Emphasis on experiential approaches that provide a participative type of learning about the crucial issues faced by organizations.

4113 Small Business Management (3) *F Prereq.: senior standing.* A multidisciplinary approach to small business; business start-ups, accounting, finance, marketing, management, promotion, layout, retail management, location analysis, and international small business.

4114 Franchising Management (3) *S Prereq.: senior standing for undergraduates or permission of instructor.* Understanding the franchising process; becoming a franchiser or franchisee; franchiser start-up, venture capital, finance, legal compliance, disclosure documents, franchise agreements, franchise start-ups, franchiser-franchisee relationships, anti-trust laws, and international franchising.

4120 Social Entrepreneurship (3) *Prereq.: MGT 3111 or permission of instructor.* The course provides a broad theoretical perspective and practical framework for understanding social entrepreneurs and the social ventures they create ranging from local social organizations to large international social ventures leading global change. Introduction to the possibilities of social entrepreneurship and an introduction to the entire social venture creation process and life cycle.

4322 Employee Selection and Placement (3) *S Prereq.: ISDS 2000; or equivalent and MGT 3320.* Staffing

requirements, recruitment strategies, development and validation of selection procedures, classification and placement of employees; problems associated with person-job matching; socialization of new employees.

4323 Compensation Administration (3) *F Prereq.: MGT 3320.* Quantitative and nonquantitative methods of job evaluation; wage level, wage structure, incentive plans; issues of employee compensation.

4420 Multinational Management (3) *Prereq.: MGT 3200 or equivalent.* Management concepts and philosophical bases for international management operations; environmental dynamics, multinational business organizations, cultural constraints, organizational structures and processes, and conceptual systems of international operations.

4523 Legal Issues in Human Resource Management (3) *S Prereq.: MGT 3320.* An examination of the most significant laws and court rulings influencing companies' employment practices; topics include: anti-discrimination statutes, affirmative action, commonly committed workplace torts, occupational safety and health laws, workers' compensation, and wrongful termination.

4600 Crisis Management (3) *See DSM 4600.*

4620 Human Behavior in Organizations (3) *Prereq.: MGT 3200. Open only to College of Business students; open to others with permission of department.* Behavioral sciences applied to understanding human dynamics in organizations; focus on individual, interpersonal, group, and intergroup behavior; impact of human behavior on organizational effectiveness.

4701 Technological Entrepreneurship (3) *See ISDS 4701.*

4702 Managing Technology Transfer (3) *V Models of technological transfer; mechanisms and barriers to technological transfer; technological transfer and industrial innovation; domestic and international aspects of technology transfer.*

7111 Entrepreneurship Management (3) *F Investigation, analysis, and development of entrepreneurial feasibility studies and business plans.*

7203 Development of Management Thought (3) *F-O* Origin and growth of managerial concepts; contributions of leaders associated with major schools of management thought, including: scientific management, management process, empirical, human behavior, social system, decision theory, and quantitative methods.

7212 Seminar in Contemporary Management Topics (3) *V Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary.*

7301 Seminar in Human Resources (3) *S* Role of human resource managers; their relationships with employees, the external environment, and top management.

7302 Reward Systems in Organizations (3) *V* Theories of motivation, reward, performance and behavior; their application to major issues regarding human resources allocation, development and utilization.

7401 International Business Management (3) *F* Theories and management of international operations; development of environmental, operational, strategic, and decision making perspectives.

7600 Organizational Behavior (3) *F-E* Behavior of people within organizations; the environment within which organizations function; components of the behavioral unit; processes, interactions, and outputs of organizational behavior.

7620 Strategic Management of Health Care Organizations (3) *Cross-listed with PADM 7620.*

7700 Organization Theory (3) *S-O* Macro aspects of organizations; processes by which organizations are formed, structures used in their elaboration; internal processes; environmental considerations; organizational viability and renewal.

7800 Current Issues in Strategic Management (3) *S* Contemporary issues in strategic management theory and practice; emphasis on field projects that provide top-management problem-solving experience.

7811 Research Issues in Strategic Management (3) *F-E Prereq.: MGT 7800 or equivalent.* Strategic planning; issues including environmental scanning, goal formulation, strategic implementation, control, and evaluation in successful organizations.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

9201 Research Methods in Management (3) *S-O* Theory building; measurement reliability and validity; significance testing and statistical power; sampling strategies and missing data; multi-level and cross-level issues; research ethics.

9202 Pre-dissertation Research (1-9) *May be repeated for credit. Pass-fail grading.*

9204 Proseminar in Management (1) *Required of all in-resident PhD students. Pass-fail grading. May be taken for a max. of 3 sem. hrs. when topics vary.* Contemporary research and critical issues in management.

9800 Seminar in Advanced Business Problems (3) *May be taken for a max. of 6 hrs. of credit when topics vary. Directed work in advanced topics.*

MARKETING • MKT

3401 Principles of Marketing (3) *Prereq.: ACCT 2000 or 2001 (2002), and either ECON 2030 or ECON 2000 (2001) and 2010 (2011). An honors course, MKT 3402, is also available. Credit will not be given for both this course and MKT 3402.* Lecture-discussion, case analysis, marketing-simulation game; the field of marketing; marketing environment, functions, and institutional structure at a macro level; marketing strategy and policies at a micro level; problems of cost and productivity; view points of society, consumer, and marketing manager.

3402 HONORS: Principles of Marketing (3) *Same as MKT 3401, with special honors emphasis for qualified students. Credit will not be given for this course and MKT 3401.*

3410 Sports Marketing (3) Application of marketing concepts to sports and leisure activities; emphasis on planning and strategy development.

3411 Consumer Analysis and Behavior (3) *Prereq.: MKT 3401. Open only to marketing majors; open to others with permission of the department.* Dynamics of consumer markets; their significance to marketing executives; identification and measurement of market segments; analysis of their behavioral patterns as a basis for marketing strategy.

3413 Marketing Research (3) *Prereq.: MKT 3411 and ISDS 2000. Open only to College of Business students; open to others with permission of department.* Formulation of marketing policies; theories, concepts, and methodology involved in applying research to marketing problems.

3421 Marketing Communication: Promotion (3) *Prereq.: MKT 3401.* Nature and contributions of personal selling and advertising to the firm's problems of demand stimulation; concepts related to integration and organization of promotional effort to facilitate communication programs for products and/or services.

3427 Buyer-Seller Communication (3) *Prereq.: MKT 3401.* Communication theory and sales principles needed for successful sales career; buyer behavior and sales tactics; sales strategies; communication in buyer-seller relationships.

3431 Retailing Management (3) *Prereq.: MKT 3411.* Store organization, operation, and management; retail method of inventory; problems connected with retail buying and selling.

3441 Business Marketing (3) *Prereq.: MKT 3401.* Strategies developed by manufacturers to compete for markets; differences between industrial and final consumer markets; function of industrial purchasing with regard to selection of sources of supply and development of purchasing policies; strategic overview of marketing; how companies buy and sell from each other; not confined to industrial companies.

3500 Marketing Tools Fundamentals (3) *Prereq.: credit or registration in MKT 3401 and permission of department.* Coverage of current and emerging computer-based and other tools used by marketing practitioners.

4414 Marketing Research Field Project (3) *Prereq.: MKT 3401 and permission of the department.* Advanced marketing research problems and theory.

4423 Sales Management (3) *Prereq.: MKT 3401.* Principles of sales planning and control; organizing sales departments, developing territories, motivating sales persons, and controlling sales operations.

4437 Direct Marketing (3) Principles of direct marketing process; planning and implementation of direct marketing campaigns; direct marketing through direct mail, catalogs, publications, telephone, and electronic media; list management and database marketing; direct marketing campaigns for consumers, business customers, and international markets.

4440 Marketing on the Internet (3) *Prereq.: MKT 3401 and permission of department.* Appreciation of marketing principles and practices pertaining to the use of the Internet by organizations.

4442 Strategic Marketing (3) *Prereq.: MKT 4440 or consent of instructor.* Study of the concepts, principles, and practices concerning the development and implementation of a strategic plan for use in electronic commerce on the Internet with emphasis on the Internet as an alternative marketing delivery system.

4443 International Marketing (3) *Prereq.: MKT 3401.* Global marketing environment and analytical processes; global marketing as all-encompassing (import-export, joint ventures, foreign subsidiaries, licensing, management contracts); marketing systems in various countries; strategies for international and multinational operations.

4445 Internship in Marketing (1-6) Prereq.: senior standing or consent of instructor. Primarily for seniors in marketing. May be repeated for a max. of 6 sem. hrs. credit. Pass-fail grading. On-the-job experience in approved marketing positions.

4451 Marketing Management (3) Prereq.: MKT 3413, and senior standing. Open only to College of Business students; open to others with permission of department. Analytical principles used in development of strategies for solving marketing problems; policy areas of product, price, channels, and promotion integrated in development of the firm's total marketing effort.

4477 Independent Study: Advanced Marketing Problems (1-6) For undergraduate students in the E. J. Ourso College of Business with a gpa of 3.00 or above. May be repeated for a max. of 6 sem. hrs. credit. Pass-fail grading. Independent research under direction of a faculty member.

4488 Advanced Topics in Retailing Management (3) Prereq.: MKT 3431. Application of retailing theory and management techniques in areas of strategic planning and its interfaces with retailing operations; market area analysis, locational strategies and site selection; merchandising policies and in-store operations; store management, product distribution, and departmental layout.

4490 Services Marketing (3) Prereq.: MKT 3401. Developing, pricing, distributing, and promoting the service; control of quality of customer encounters through service automation and/or employee selection and training; place of marketing in service organization structure; strategic implications of structure of service industries.

4500 Entrepreneurial Marketing and Sales (3) Prereq.: MGT 3111 and MKT 3401 and Entrepreneurship Minor, or Entrepreneurship Concentration, or permission of instructor. This course will look at the role of marketing in entrepreneurial ventures, and the role of entrepreneurship in marketing efforts of all firms. Attention will be devoted to understanding the common mistakes entrepreneurs make when it comes to marketing and how to sell an idea/product in an entrepreneurship environment.

7110 Marketing Tools Foundations and Applications (3) Prereq.: credit or registration in BADM 7100 or equivalent. Coverage of current and emerging tools used by marketing practitioners, including customer tracking systems, market segmentation tools, market share analysis, competitive intelligence, applications to real and/or simulated market situations.

7120 Customer Decision Making and Brand Marketing Strategy (3) Prereq.: BADM 7100 or equivalent. Treatment of key elements of consumer decision making with emphasis on formulation of brand marketing strategy based on consumer behavior models, constructs, and information.

7130 Marketing Research and Brand Analysis (3)

Applications of marketing research methods such as qualitative research techniques, marketing surveys, marketing experiments, and brand analysis techniques.

7140 Promotion Management and Strategy (3) Prereq.: BADM 7100 or equivalent. Examines the techniques and methods used by marketing communicators with emphasis on theory and best practices; including development of a marketing promotions strategy for a present or emerging marketing organization.

7150 Global Marketing Issues and Strategies (1.5)

Prereq.: BADM 7100 or equivalent. Examination of marketing strategies and tactics available to organizations seeking to compete with global markets.

7160 Services and Professional Services Marketing (3)

Prereq.: BADM 7100 or equivalent. Introduction to services marketing with emphasis on issues involved in planning, implementing, and controlling professional services marketing.

7300 Brand Marketing Strategy (3) Prereq.: MKT 7120 and 7130. Coverage of brand marketing strategy formulation, including market and competitor analysis, plus resource allocation; emphasis on issues involved in marketing strategy formulation and implementation.

7443 Advanced Seminar in International Marketing (3) Prereq.: MKT 4451 or BADM 7100 or equivalent. Marketing management decision processes and marketing systems in the global environment; application to multinational business operations and strategy development; marketing techniques of foreign market entry; product, pricing, promotion, and distribution decisions.

7450 Topics in Advanced Marketing Management (3) Prereq.: BADM 7100 or permission of instructor. May be taken for a max. of 6 hrs. of credit when topics vary. Survey of marketing management areas such as distribution channels, pricing, and product management.

7471 Marketing Strategy (3) Design, implementation, and evaluation; corporate marketing models; demand forecasting; marketing programming; product, price, promotion, and distribution policies; information systems; marketing audit; application of economic, quantitative, and behavioral tools as strategic aids to marketing management; model-building

approach used to demonstrate tool applications in product, price, promotion, and distribution strategies.

7476 Marketing Theory and Thought (3) Evolution of marketing concepts, terminology, principles, and theory; development of a frame of reference for understanding the meaning and consequences of theory; prediction of future theoretical development.

7477 Seminar in Advanced Marketing Problems (3) May be taken for a max. of 9 hrs. of credit.

7486 Applications of Marketing Theory (3) Prereq.: MKT 7476 and 7713. Marketing theory development and testing; theory operationalization and refinement.

7488 Marketing Models (3) Prereq.: BADM 7100 or consent of instructor. Synthesis of theory, content area, and methodology in marketing through the study of modeling; modeling phenomena, functional forms, and analytical techniques of path analysis, simultaneous equation systems, and structural equation modeling.

7713 Marketing Construct Analysis (3) Prereq.: MKT 4451 or BADM 7100 or permission of instructor and ISDS 7024 or equivalent. Open to doctoral students. Treatment of the theory, conceptualization, and measurement of constructs used in marketing research with emphasis on the development and refinement of marketing construct measures.

7716 Advanced Marketing Research Techniques (3) Prereq.: BADM 7100. Advanced designs and techniques applied to marketing research; theory and assumptions of analytical methods; marketing applications; use of computer programs; marketing strategy; interpretations of empirical results.

7717 Advanced Seminar in Consumer Behavior (3) Prereq.: MKT 4451 or BADM 7100. Open only to doctoral students. Theoretical, conceptual, and methodological issues for selected topics in this area.

7720 Seminar in Marketing Theory and Experimental Methods (3) Prereq.: BADM 7100 or equivalent. Nature and importance of theory in marketing, interplay of theory and research methods; validity and implications in marketing and consumer research; experimental and quasi-experimental design; pluralism in marketing and consumer research.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Pre-dissertation Research (1-9) May be repeated for credit.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

MASS COMMUNICATION • MC

Required of all mass communication majors: MC 2000, 2010, 2015, 2525, 3018, 3080, 4090.

General education courses are marked with stars (★).

GENERAL COURSES

★ **2000 Introduction to the Mass Media (3)** The role of media in a free society with a focus on public affairs. Examines how journalism and persuasive communication (advertising and public relations) affect political and economic democracy.

★ **2001 HONORS: Introduction to Mass Media (3)** Same as MC 2000, with special honors emphasis for qualified students.

2010 Media Writing (3) Majors and minors only or permission of department. 2 hrs. lecture; 2 hrs. lab. A grade of "B" or better required for entry into the Manship School of Mass Communication. Beginning writing course for mass communication. Introduces skills associated with writing, grammar, style and information gathering for mass media.

2011 HONORS: Media Writing (3) Same as MC 2010, with special honors emphasis for qualified students.

2015 Visual Communication (3) Majors and minors only or permission of department. 2 hrs. lecture; 2 hrs. lab. Strategies for the design, development, and production of media programs using advanced computer and video systems.

2016 HONORS: Visual Communication (3) Same as MC 2015, with special honors emphasis for qualified students.

2020 Foundations of Advertising and Public Relations (3) Prereq.: majors and minors only or permission of department. Theories and principles of advertising and public relations; their social and economic roles.

★ **2025 The Business of Entertainment Media (3)** Examination of the creative, economic, and legal factors that drive and constrain American popular media to provide students with the informative and strategic tools to become critical consumers of these media.

★ **2030 Civic Engagement, Youth, and Media (3)** Also offered as POLI 2030. Introduction to models of and skills for citizenship, with emphasis on mass media and political influences on how young Americans engage with civic life.

2525 Foundations of Media Persuasion (3) Prereq.: majors and minors only or permission of department. Introduction to

contemporary principles; processes, and theories of persuasion and their practical applications in the mass media.

2700 Production and Performance (3) Prereq.: Majors only. 2 hrs. lecture; 2 hrs. lab. Production and performance techniques for use in video and audio programming of electronic media.

3018 Foundations of Media Research (3) Prereq.: majors and minors only or permission of department; LIS 1001. Role of research in media institutions and the mass communication process; basic concepts of research evaluation.

3019 HONORS: Foundations of Media Research (3) Same as MC 3018, with special honors emphasis for qualified students.

3080 Mass Media Law (3) Prereq.: majors and minors only or permission of department. Legal rights of and restraints on the mass media; emphasis on First Amendment considerations.

3081 HONORS: Mass Media Law (3) Same as MC 3080, with special honors emphasis for qualified students.

3333 Minorities and the Media (3) Historical and contemporary roles and portrayals of minorities in the media.

3650 Electronic Media and Society (3) Organizational and economic foundations of electronic mass media; history, regulation, social significance, and responsibility.

3700 Electronic Media, Law, Regulation, and Public Policy (3) Development of telecommunication media law and regulation through case studies relating to the Federal Communications Act; rules and policy decisions of the Federal Communications Commission and other regulatory bodies; emphasis on current legal issues affecting the telecommunication media; legal documents and literature.

3998 Internship (3) F,S,Su Prereq.: 3.0 gpa in 12 or more hrs. of mass communication and consent of internship faculty supervisor and school dean. Pass-fail grading. May be taken for a max. of 6 hrs. of credit; only 3 hrs. may be counted toward a degree in Mass Communication. At least 15 hours of work per week (28 hrs. in a summer term) under general supervision of a faculty member and direct supervision of a professional in some field of mass communication.

4000 Media and the Military (3) Consent of instructor, 2 hrs. lecture; 2 hrs. lab; \$50 field fee. In depth study of the modern relationship between the media and the military.

4015 Advanced Visual Communication & Multimedia Web Design (3) Prereq.: MC 2010 and MC 2015. 2 hr. lecture; 2 hrs. lab. Developing multimedia content for the Web; includes photo, audio, and video editing.

4042 Mass Media, Sports, and Society (3) Prereq.: Majors only. News coverage of the political, economic, and cultural roles of sports institutions and the social roles of professional athletes.

4050 Media Management (3) Prereq.: Majors only. Concepts and principles of management, entrepreneurial leadership, organizational behavior, and strategic planning applicable to media organization; study of social, political, ethical, technological, and legal issues confronting media companies.

4090 Media Ethics and Social Responsibility (3) Prereq.: majors or minors only or permission of department. Role of the media as socially responsible institutions; ethical issues, policies, and practices in gathering, processing, and disseminating content.

4091 HONORS: Media Ethics and Social Responsibility (3) Same as MC 4090, with special honors emphasis for qualified students.

4095 American Media History (3) Themes and trends in the historical development of media, including journalism, advertising, and public relations.

4096 HONORS: American Media History (3) Same as MC 4095, with special honors emphasis for qualified students.

4103 Comparative Media Systems (3) Prereq.: Majors only. World mass media; news agencies, communication organizations, differing philosophies, international news flow, and political, economic, cultural, and geographical influences.

4104 HONORS: Comparative Media Systems (3) Prereq.: Majors only. Same as MC 4103, with special honors emphasis for qualified students.

4111 Mass Media Practices (3) Prereq.: consent of Manship School of Mass Communication; 1 hr. lecture; 3 hrs. lab. Open to LSU undergraduates who qualify for entry into the University's Accelerated Master's Degree Program. Required of all students who enter the mass communication graduate program without a degree or professional experience in mass communication. May not be counted for undergraduate or graduate degree credit by Mass Communication majors. An honors course, MC 4112, is also available. An intensive course in laboratory practice in the professional skills required of all media practitioners.

4112 HONORS: Mass Media Practices (3) Same as MC 4111, with special honors emphasis for qualified students. Consult School before registering.

4151 Field Experience (3) Prereq.: Permission of instructor. 1 hr. lecture, 4 hrs. lab. Individually arranged assignments and hours for the gathering, writing, and producing media content in real-time situations with professional supervision, for regional newspapers, magazines, television stations, or other professional media organizations.

4211 Mass Media Principles (3) Prereq.: consent of the Manship School of Mass Communication; Open to LSU undergraduates who qualify for entry into the University's Accelerated Master's Degree Program. Required of all students who enter the mass communication graduate program without a degree or professional experience in mass communication. May not be counted for undergraduate or graduate degree credit by Mass Communication majors. An honors course, MC 4212, is also available. An intensive course that provides an overview of the role of the mass media within society.

4212 HONORS: Mass Media Principles (3) Same as MC 4211, with special honors emphasis for qualified students. Consult School before registering.

4705 Electronic Media Programming (3) Strategies in developing program schedules for electronic media; techniques of program development for target audiences.

4710 Electronic Media Management (3) Managing broadcast stations and cable systems; general management, sales, programming, and promotion.

4720 Television Creative Projects (3) Prereq.: Majors only. Grade of "B" or better in MC 2010, and one of the following: MC 3031, 3010, 3101, 3102, 3505, 3506, and permission of the department. 1 hr. lecture; 3 hrs. lab. Master's students with projects requiring broadcast skills are encouraged to take this course. Techniques of television production for non-journalism projects; includes field production, nonlinear video editing, graphics and studio production.

4971 Special Topics in Mass Communication (3) Prereq.: consent of instructor. Also offered as CMST 4971. May be taken for a max. of 6 hrs. of credit when topics vary. Analysis and discussion of a selected topic that goes beyond present advanced course offerings.

4999 Independent Study (3) Prereq.: gpa of at least 3.00 and consent of school. Approval of written proposal required before enrolling. Pass-fail grading. Readings, projects, conferences, and reports under faculty direction.

7000 Proseminar in Mass Communication and Public Affairs (1) Open to graduate students of mass communication only. Pass-fail grading. Introduction to graduate study in mass communication; topics include faculty research areas, survey of the field, and professional and academic career preparation.

7001 Research Methods in Mass Communication (3) Quantitative and qualitative methods for investigating critical issues in mass communication; may include surveys, content analysis, experiments, focus groups, interviews, and other methods.

7002 Mass Communication Philosophy and Principles (3) Examination of the most influential principles, philosophies, and ideas underlying the development of the mass media in the Western world.

7003 Case Studies in Mass Communication (3) Evaluation using the case study method of problems and challenges facing mass communication organizations, with particular emphasis on media management issues.

7005 Public Opinion and Public Affairs (3) Formation and development of public opinion; interaction of media organizations and public communication practitioners in building public support for ideas and policies.

7010 Seminar in Communication Literature (3) Basic issues and problems in mass communication as highlighted in relevant journals and books; journal articles and books of a catalytic nature.

7012 Survey Research Methods in Mass Communications (3) Design, development, execution, and analysis of public opinion surveys as related to mass communication problems; practical issues related to survey sampling, questionnaire construction and design, modes in interviewing, interviewer training and interviewer effects, and data preparation and analysis.

7014 Qualitative Research Methods in Mass Communication (3) Application of qualitative methods to mass communication research, creation of qualitative research design; exploration of the philosophy of science, theory construction and the core issues involved in conducting qualitative research.

7015 Mass Communication and Society (3) Roles of the mass media; responsibilities and rights of the communicator; interaction of mass media and society; media effects.

7016 International Mass Communication (3) How nations get their news; organization and operation of press associations, newspapers, magazines, radio, and television; impact of news and other media content.

7017 Media Industries and Behavior (3) How industry structures in various media influence decision making; effects of competition and monopoly on media behavior; economic performance in media and its effect on content.

7018 Legal Problems of the Mass Media (3) Specific current legal problems affecting the mass media; basic principles of legal research methods.

7019 Media Systems: Policy and Technology (3) The impact of changing technologies and public policies for entrepreneurship in media enterprises, especially new and emerging media systems.

7020 Electronic Media Systems (3) Integration of traditional electronic media with new media systems; political, economic, and regulatory matters; cable television.

7021 Mass Communication Theory (3) Survey and exploration of origins, basic concepts, debates, and applications of major theories of mass communication; nature and utility of theoretical understanding of mass media ideologies, industries, content, and reception.

7022 Doctoral Seminar in Mass Communication Theory (3) In-depth examination of key mass communication theories and their research origins.

7023 Critical Cultural Theory (3) History, evolution, and key contributions to critical/cultural theories in mass communication research.

7024 Seminar in First Amendment Law (3) Prereq.: MC 7018, an equivalent graduate-level mass media law course, or permission of the instructor. Principles and theories underlying First Amendment jurisprudence as it relates to the press and speech; an examination of significant cases and legal issues through original research projects.

7028 Seminar in Communication Policy (3) The influence of public affairs and policy issues on media performance; original research concerning communication policies implemented through legislative and administrative decision making.

7095 Media History: Research and Writing (3) American mass media history from a public policy perspective; mass media research, writing, and the canon of media history scholarship.

7201 Advanced Research Methods in Mass Communication and Public Affairs (3) Prereq.: MC 7001 or equivalent. Open to graduate students of mass communication and other fields of social sciences. Advanced study of research methods, research designs and analysis applicable to mass communication and public affairs.

7971 Independent Research: Mass Communication (1-3) F, S, Su Prereq.: consent of instructor and the associate dean for graduate studies. May be repeated for 6 sem. hrs. of credit. For advanced graduate students who wish to pursue research on special problems, exclusive of thesis or dissertation, for which there is no organized course.

7999 Special Topics in Mass Communication (3) Prereq.: consent of instructor. May be taken for a max. of 9 hrs. of credit when topics vary. Intensive advanced study, with reading and discussion, of topics in mass communication.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8001 Professional Internship (3) Prereq.: skills and professional courses as specified in Manship Policy Statement 304; contractual agreement with outside organization's practicum supervisor; consent of faculty intern coordinator; and permission from the school's associate dean for graduate studies. Written report containing a graduate research component is required. Pass-fail grading. The student works in a professional capacity for at least 15 hours a week (28 hours in summer term) under the general supervision of a faculty member and direct supervision of a management-level practitioner in some field of mass communication (advertising, journalism, electronic media, political communication, public relations, or other appropriate organizational position).

8002 Professional Project (1-6) A research component is required. Pass-fail grading. A project, approved by the student's advisory committee, related to the student's area of professional interest.

8009 Public Affairs Externship (9) Prereq.: consent of Manship School of Mass Communication. A research component is required. Pass-fail grading. Students may be placed in one of a variety of management settings where the extern will be meaningfully engaged in public affairs planning and execution. An advanced full time field practicum in a professional public affairs context.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

ADVERTISING

3030 Principles of Advertising (3) Fundamentals of advertising theory and practice; social and economic role of advertising; functions of advertising in marketing and communication.

3031 Advertising Creative Strategy (3) Prereq.: MC 2010, 2015, 2525. Majors only. 2 hrs. lecture; 2 hrs. lab. May also

be taken as one of the 12 hrs. of required courses in the political communication area of concentration. Techniques in the creation and production of advertising messages; laboratory execution of layouts and storyboards for electronic and print media.

3038 Fundamentals of Advertising and Public Relations Research (3) Prereq.: MC 2525, 3018. Research methods and procedures for advertising and public relations; emphasis on effectiveness of communication and media efficiency.

4031 Advertising Design (3) Prereq.: MC 2010, 2015, 2525, and 3031. Majors only. 2 hrs. lecture; 2 hrs. lab. Advertising design techniques for print and electronic media, using computerized desktop publishing procedures; development of layouts and storyboards; emphasis on creative approaches to advertising problems.

4032 Advertising Media Sales (3) 2 hrs. lecture; 2 hrs. lab. Analysis of various media types and vehicles to deliver advertising messages, with emphasis on audience measurement techniques, concepts, and services.

4033 Direct Response Advertising and Promotion (3) Types and roles of direct response advertising strategies and tactics that advertising agencies and other organizations use to build and maintain relationships with customers and others.

4034 Advertising Media Analysis and Planning (3) Prereq.: MC 2525 or MKT 3401. Majors only. Major analytical plan on current marketing problem required. Quantitative study of techniques and procedures used in determining advertising media selection, budget allocation, and levels of message intensity.

4040 Advertising Problems (3) Prereq.: MC 3031 and 4034. Majors only. Seminar in advertising problems and related readings.

4045 Advertising Campaigns (3) Prereq.: MC 2525, 3031, 4040. Majors only. 2 hrs. lecture; 2 hrs. lab. Team development of advertising campaigns on a competitive basis (simulated advertising agency operations); emphasis on research, marketing, and advertising problems; budgetary planning, media strategy, and creative design.

7025 Advertising Theory and Processes (3) Role of advertising in communication, marketing, and society; analysis of various advertising processes.

7026 Issues in Advertising (3) Exploration of socioeconomic, legal, ethical and cultural issues related to advertising as an institution.

JOURNALISM

3001 Business Journalism (3) Writing for and editing house magazines, trade journals, and miscellaneous industrial publications; business news reporting for the daily newspaper.

3002 Feature Writing (3) Prereq.: MC 2010 and 3101 or permission of department. 1 hr. lecture; 3 hrs. lab. Developing and writing feature stories, vignettes, and other human-interest material.

3003 HONORS: Feature Writing (3) Same as MC 3002, with special honors emphasis for qualified students.

3065 Photojournalism (3) Prereq.: "C" or better in MC 2010. Majors only. 2 hrs. lecture; 2 hrs. lab. Photographic principles for communication media.

3101 Print Newsgathering and Editing (3) Prereq.: MC 2010. Majors only. 2 hrs. lecture; 2 hrs. lab. Basic skills of reporting and news writing and primary editing process for accuracy, proper grammar, and consistency of style.

3102 Broadcast Newsgathering and Producing (3) Prereq.: MC 2010. Majors only. 2 hrs. lecture; 2 hrs. lab. Development of skills to report, write, and produce a weekly television newscast and public affairs show.

3103 Advanced Print Newsgathering (3) Prereq.: MC 3101. Majors only. 2 hrs. lecture; 2 hrs. lab. Specific application of newsgathering techniques; covering courts, law enforcement agencies, government, business; using polls and other statistical methods; relational databases.

3104 Advanced Broadcast Newsgathering (3) Prereq.: MC 3102. Majors only. 1 hr. lecture; 3 hrs. lab.

Development of advanced broadcast reporting and presentation skills; newsgathering focus on depth, context, and presentation of information.

3151 Advanced Reporting (3) F,S Prereq.: "C" or better in MC 2010, 3101, and 3103. 1 hr. lecture; 3 hrs. lab; individually arranged hours conducted at The Advocate. Reporting news for The Advocate.

4010 Magazine Editing and Production (3) Prereq.: MC 2015 and 3103. Majors only. 1 hr. lecture; 3 hrs. lab. Magazine project required. Techniques of magazine editing and production; analysis of magazine industry and specific magazines and their audiences; editorial objectives and formulas, issue planning, article selection, layout, illustration, typography, printing, and circulation.

4011 Scholastic Journalism (3) Basic communication techniques and instructional methods for scholastic

journalism teachers; duties of counselors for newspapers and yearbooks.

4041 Sports Writing and Production (3) Prereq.: MC 2010 and 3101, or MC 3102 or 2700. Majors only. 2 hrs. lecture; 2 hrs. lab. Developing, writing, and producing sports stories for both print and electronic media.

4081 Opinion Journalism (3) Prereq.: MC 2010 and 3101. Analysis of various forms of journalistic writing that involve subjective expression: interpretive reporting, news analysis, essays, editorials and columns, critical reviews, and interviews.

4250 Public Affairs Reporting (3) Prereq.: MC 3101 and 3102 or permission of instructor. Majors only. 2 hrs. lecture; 2 hrs. lab. Using public records to document fraud, abuse, or interesting and significant social change.

4260 Long-Format Video Production (3) Prereq.: MC 3102. Majors only. 2 hrs. lecture; 2 hrs. lab. Strategies in producing video programs to inform mass electronic media audiences.

4270 News Production for the Internet (3) Prereq.: Majors only. Open to undergraduate and graduate students approved by the *Manship School*. 1 hr. lecture; 3 hrs. lab. Advanced reporting for an electronic publication, using converging media technology to create content for a news web site.

4500 Advanced Journalism (3) Prereq.: MC 3101, 3102, and either 3103 or 3104 or permission of instructor. Majors only. 1 hr. lecture; 3 hrs. lab. Techniques of newspaper editing and production; application of advanced reporting techniques; production of laboratory newspaper; techniques of producing all aspects of a television news program, including videography, nonlinear video editing, producing a newscast and on-set news performance.

7011 News Workers and Their Organizations (3) The impact of individuals and organizations on the selection and processing of news; examination of the influence of public affairs research on communicators and their organizations.

POLITICAL COMMUNICATION

3504 Introduction to Political Communication (3) Prereq.: Majors and minors only. Introduction to theory and practice of political communication; role of media in political campaigns, press-government relations, and policymaking; implications for media, politicians, and the public.

3505 Media and Policy Processes (3) Prereq.: MC 3504. Majors and minors only. Impact of the media on American politics through their interactions with political actors and involvement in the policymaking process; use of strategic political communication in government, and the media's role in spotlighting policy problems and suggesting policy solutions.

3506 Media, Politics, and the Public (3) Prereq.: Majors and minors only. Interaction among media, politics, and the public in American society; process of public opinion formation and the influence of the audience on media content; media impact on political attitudes and behaviors, especially voting.

4515 Case Studies in Media and Political Campaigns (3) Prereq.: Majors and minors only. Examination of political campaigns involving American media; the media client and message; developing media messages for political campaigns.

4520 Advanced Seminar in Political Communication (3) Prereq.: MC 3504 and MC 3505 or consent of instructor. Majors and minors only. Lectures, discussions and research on topics relevant to all aspects of political communication. Includes discussion of theoretical foundations, empirical effects, and normative and ethical implications of political communication processes in democratic governance.

4900 Propaganda and Mass Communication (3) Theory, development, and impact of propaganda as a controversial mass communication strategy for influencing public opinion.

7004 The News Media and Governance (3) News media influence on political actors, processes, and outcomes in American politics; public policy towards the news, strategic political communication, and influences of public officials and other political actors on the framing and structure of content.

7036 Seminar in Media and Public Affairs Theory (3) Advanced studies in the application of mass communication theory to public affairs and public policy cases, problems, and issues.

PUBLIC RELATIONS

3000 Principles of Public Relations (3) Mass communication techniques applied to theories and principles of the public relations function.

3010 Public Relations Practices (3) Prereq.: MC 2010 and MC 2015. Majors and minors only. History, theory, and current communication strategies in public relations.

4001 Public Relations Writing (3) Y Prereq.: MC 2525, 3010. Majors only. 2 hrs. lecture; 2 hrs. lab. Developing and

writing news releases, speeches, audio-visual scripts, feature stories, and other public relations communications.

4004 Case Studies in Public Relations (3) Y Prereq.: MC 3010. Majors only. Theoretical concepts of public relations practice applied to solution of strategic business, institutional, and organizational problems.

4005 Public Relations Campaigns (3) V Prereq.: MC 3018, 4001, and 4004. Majors only. 2 hrs. lecture; 2 hrs. lab. Developing and implementing public relations communication campaigns; hands-on experience in designing and producing print and audio-visual materials for campaigns; emphasis on use of planning and evaluation techniques.

7006 Public Relations Strategies and Tactics (3) Formal and informal models, tasks, and techniques used to formulate and complete management activities of public relations and to function ethically in social systems.

7007 Public Relations Administration (3) Principles of public relations management and application of project research techniques; strategies of campaign setting; planning, organizing, staffing, leading, and controlling.

7008 Public Relations Programming and Production (3) Prereq.: MC 4111 or equivalent writing proficiency. 2 hrs. lecture; 2 hrs. lab. Writing public relations messages for print and broadcast; program proposals; practice in writing, graphic design; and layout of messages.

7013 Public Affairs Advertising Campaigns (3) The application of advertising theory and process to public affairs campaigns; emphasis on strategy development in the context of political or issues-oriented campaigns.

7209 Public Communication Practices (3) The role mediated communication plays in defining/influencing/altering relationships among various stakeholders and interest groups, with emphasis on mass communication strategies used to formulate and execute public affairs programs.

7210 Public Communication Administration (3) Principles of public affairs, issues management, and political communication; application of research techniques in communication campaigns, strategies of campaign settings; planning, organizing, staffing, leading, and controlling communication campaigns in corporate and governmental settings.

MATHEMATICS • MATH

General education courses are marked with stars (★).

No student may receive more than nine semester hours of credit in mathematics courses numbered below 1550, with the exception of students who are pursuing the elementary education degree and following the 12-hour sequence specified in that curriculum. No student who has already received credit for a mathematics course numbered 1550 or above may be registered in a mathematics course numbered below 1550, unless given special permission by the Department of Mathematics.

0092 Preparation for College Mathematics II (3) Prereq.: MATH 0091 or placement by department. 3 hrs. lecture. For students not prepared to take MATH 1009, 1015, or 1021. Not for degree credit; 3 sem. hrs. will be added to the degree program of any student taking this course. No student who has received credit for a mathematics course numbered 1000 or above may register for this course. Linear equations and inequalities, polynomials and factoring, algebraic fractions, operations on radical expressions, rational exponents, quadratic equations, graphing.

1009 Mathematics for Prospective Elementary School Teachers I (3) V Prereq.: MATH 0092 or placement by department. Offered by correspondence only. Logic; counting numbers, integers, rational numbers, real numbers; emphasis on field properties; set nomenclature and some number theory; units of measurement.

1010 Mathematics for Prospective Elementary School Teachers II (3) V Prereq.: MATH 1009. Offered by correspondence only. Continuation of MATH 1009. Measurement, informal geometry, systems of equations, introduction to probability and statistics.

1015 Basic Mathematics and Applications (3) V Prereq.: MATH 0092 or placement by department. This course does not serve as a prerequisite for calculus. Credit will not be given for both this course and MATH 1021, 1022, or 1023. Offered by correspondence only. Basic mathematical skills of graphing, formulas for geometric measurement, systems of linear equations and inequalities, review of quadratic equations, logarithms and application to exponential growth and decay, triangle trigonometry and its application to geometry and measurements.

★ **1021 College Algebra (3)** F,S,Su Prereq.: MATH 0092 or placement by department. Credit will not be given for both this course and MATH 1015 or 1023. Quadratic equations, systems of linear equations, inequalities, functions, graphs,

exponential and logarithmic functions, complex numbers, theory of equations.

★ **1022 Plane Trigonometry (3)** F,S,Su Prereq.: MATH 1021 or placement by department. Credit will not be given for both this course and MATH 1015 or 1023. 3 hrs. lecture; 1 hr. lab. Trigonometric functions and identities, inverse trigonometric functions, graphs, solving triangles and equations, complex numbers, polar coordinates.

★ **1023 College Algebra and Trigonometry (5)** F,S,Su Prereq.: placement by department or grade of "A" in MATH 0092. Credit will not be given for both this course and MATH 1015, 1021, or 1022. For qualified students, a replacement for MATH 1021 and 1022 as preparation for Calculus

1025 Mathematics of Commerce (3) F,S Prereq.: MATH 1015 or 1021. Interest, discount, annuities, depreciation, and insurance.

★ **1029 Introduction to Contemporary Mathematics (3)** Prereq.: MATH 0092 or placement by department. Primarily for students in liberal arts and social sciences. Mathematical approaches to contemporary problems, handling of data, and optimization using basic concepts from algebra, geometry, and discrete mathematics.

★ **1100 The Nature of Mathematics (3)** F,S,Su Not for science, engineering, or mathematics majors. For students who desire an exposure to mathematics as part of a liberal education. An honors course, MATH 1101, is also available. Logic; the algebra of logic, computers, and number systems; networks and combinations; probability and statistics.

1101 HONORS: The Nature of Mathematics (3) V Prereq.: a grade of "A" in MATH 1021 or consent of department. Same as MATH 1100, with special honors emphasis for qualified students. Logic; the algebra of sets, logic, and networks; probability and statistics; game theory; infinities; famous impossibilities and unsolved problems.

1201 Number Sense and Open-Ended Problem Solving (3) F,S,Su Prereq.: MATH 1021. Primarily for students in the elementary education curriculum. Cardinality and integers; decimal representation and the number line; exploratory data analysis; number sense; open-ended problem solving strategies; written communication of mathematics.

1202 Geometry, Reasoning, and Measurement (3) F,S,Su Prereq.: MATH 1201. Primarily for students in the elementary education Holmes curriculum. Synthetic and coordinate geometry in two and three dimensions; spatial visualization and counting procedures; symmetries and tilings; history of geometry; written communication of mathematics.

★ **1431 Calculus with Business and Economic Applications (3)** F,S,Su Prereq.: MATH 1021 or equivalent. Credit will be given for only one of the following: MATH 1431, 1441, 1550. 3 hrs. lecture; 1 hr. lab. Differential and integral calculus of algebraic, logarithmic, and exponential functions; applications to business and economics, such as maximum-minimum problems, marginal analysis, and exponential growth models.

1435 Mathematics for Business Analysis (3) Prereq.: MATH 1431 or equivalent. Offered by correspondence only. Sets and counting; probability, including conditional probability, discrete and continuous random variables, variance, and normal distributions; matrices and echelon method for solving systems of equations; functions of several variables and partial derivatives.

★ **1441 Calculus with Application to Technology (3)** F,S Prereq.: MATH 1021 and 1022; or 1023; or consent of department. Credit will be given for only one of the following: MATH 1431, 1441, 1550. Differentiation and integration of algebraic and trigonometric functions; application to technology.

★ **1550 Analytic Geometry and Calculus I (5)** F,S,Su Prereq.: MATH 1022 or 1023 or consent of department. An honors course, MATH 1551, is also available. Credit will be given for only one of the following: MATH 1431, 1441, 1550. Analytic geometry, limits, derivatives, integrals.

★ **1551 HONORS: Analytic Geometry and Calculus I (5)** F Same as MATH 1550, with special honors emphasis for qualified students.

★ **1552 Analytic Geometry and Calculus II (4)** F,S,Su Prereq.: MATH 1550. An honors course, MATH 1553, is also available. Credit will not be given for both this course and either MATH 1553 or MATH 1554 or MATH 1635. Techniques of integration, parameter equations, polar coordinates, infinite series, vectors in low dimensions; introduction to differential equations and partial derivatives.

★ **1553 HONORS: Analytic Geometry and Calculus II (4)** S Same as MATH 1552 with special honors emphasis for qualified students. Credit will not be given for both this course and MATH 1552 or 1554 or 1635.

- ★ **1554 Calculus II for Life Sciences (4) F,S Prereq.:** MATH 1550. Credit will not be given for this course and either MATH 1552 or 1553. Does not satisfy prerequisite requirement for higher level Math courses. Designed for biological science majors. Techniques of integration, introduction to differential equations, stability of equilibrium points, elementary linear algebra, elements of multivariable calculus, systems of differential equations.
- 1635 Further Calculus for Quantitative Analysis (5) Prereq.:** MATH 1435 or 1550. Credit will not be given for this course and either MATH 1552 or 1553 or 2057 or 2058. Selected topics in single-variable calculus, including related rates, Riemann sums, Newton's method, elementary differential equations, infinite sequences and series; functions of several variables, including partial derivatives, least squares regression, Lagrange multipliers, double integrals; vectors in two and three dimensions.
- 2020 Solving Discrete Problems (3) F,S Prereq.:** MATH 1550. Logic, counting, discrete probability, graph theory, and number theory.
- 2025 Integral Transforms and Their Applications (3) F Prereq.:** MATH 1552. Introduction to mathematical proofs and structures using selected topics from analysis; series of functions, Fourier series, Fourier integrals, and introduction to wavelets; applications in differential equations and signal processing.
- 2030 Discrete Dynamical Systems (3) S Prereq.:** MATH 1552 or permission of instructor. Dynamical systems with discrete time and in one spatial dimension; hyperbolicity; quadratic maps; chaos; structural stability; bifurcation theory; and higher dimensional systems.
- 2040 Fundamentals of Mathematics (3) Prereq.:** MATH 1550. Introduction to techniques of mathematical proofs; sets, logic, relations and functions, induction, cardinality, and properties of real numbers.
- 2057 Multidimensional Calculus (3) F,S,Su Prereq.:** MATH 1552. An honors course, MATH 2058, is also available. Credit will not be given for both this course and MATH 2058 and 1635. Three-dimensional analytic geometry, partial derivatives, multiple integrals.
- 2058 HONORS: Multidimensional Calculus (3) F Same as MATH 2057, with special honors emphasis for qualified students. Credit will not be given for both this course and MATH 2057 and 1635.**
- 2060 Technology Lab (1) F,S,Su Prereq.:** credit or concurrent enrollment in MATH 2057. Students are encouraged to enroll in MATH 2057 and 2060 concurrently. Use of computers for investigating, solving, and documenting mathematical problems; numerical, symbolic, and graphical manipulation of mathematical constructs discussed in MATH 1550, 1552, and 2057.
- 2065 Elementary Differential Equations (3) F,S Prereq.:** MATH 1552. Credit will be given for only one of the following: MATH 2065, 2070, 2090. Ordinary differential equations; emphasis on solving linear differential equations.
- 2070 Mathematical Methods in Engineering (4) F,S Prereq.:** MATH 1552. Credit will be given for only one of the following: MATH 2065, 2070, 2090. Ordinary differential equations, Laplace transforms, linear algebra, and Fourier series; physical applications stressed.
- 2085 Linear Algebra (3) F,S,Su Prereq.:** MATH 1552, 1635 or 2040, or equivalent. An honors course, MATH 2086, is also available. Credit will not be given for both this course and MATH 2086 or 2090. Systems of linear equations, vector spaces, linear transformations, matrices, determinants.
- 2086 HONORS: Linear Algebra (3) V Same as MATH 2085, with special honors emphasis for qualified students. Credit will not be given for both this course and MATH 2085 or 2090.**
- 2090 Elementary Differential Equations and Linear Algebra (4) F,S,Su Prereq.:** MATH 1552. Credit will be given for only one of the following: MATH 2065, 2070, 2090. Credit will not be given for both this course and MATH 2085 or 2086. Introduction to first order differential equations, linear differential equations with constant coefficients, and systems of differential equations; vector spaces, linear transformations, matrices, determinants, linear dependence, bases, systems of equations, eigenvalues, eigenvectors, Laplace transforms, and Fourier series.
- 2203 Measurement: Proportional and Algebraic Reasoning (3) F,S Prereq.:** Professional Practice I Block, 12 sem. hrs. of mathematics including MATH 1201 and 1202, and concurrent enrollment in EDCI 3125 AND 3126. 2 hrs. lecture; 2 hrs. lab/field experience (as part of Professional Practice II Block); Mathematics content course designed to be integrated in Praxis II with the principles and structures of mathematical reasoning applied to the grades 1-6 classroom. Development of a connected, balanced view of mathematics; application of measurable attributes of objects and the units, systems, and processes of measurement; appropriate techniques, tools, and formulas of measurement; interrelationship of patterns, relations, and functions; applications of proportional and algebraic reasoning in mathematical situations and structures using contextual, numeric, graphic, and symbolic representations; written communication of mathematics.
- 3001 Mathematics Tutoring Experience (1) F,S Prereq.:** MATH 1552, EDCI 2001 and concurrent enrollment in EDCI 3001. 3 hr. lab. Course provides a carefully supported, monitored, and evaluated mathematics tutoring experience in a local middle, or high school under the guidance of a mathematics faculty member and a mentoring mathematics teacher in the local school.
- 3002 Mathematics Classroom Presentations (1) F, S Prereq.:** BASC 2010 and 2011. Under the supervision of a mathematics faculty member and a master teacher, students will prepare and deliver middle and/or high school mathematics lessons that incorporate appropriate use of technology.
- 3003 Functions & Modeling (2) Prereq.:** BASC 2011. Using problem-based learning, technology, and exploring in depth relationships between various areas of mathematics, students strengthen mathematical understandings of core concepts taught at the secondary level. In addition, connections between secondary and college mathematics are investigated.
- 3355 Probability (3) F,S Prereq.:** MATH 2057. Suggested for preparation for actuarial exams. Introduction to probability, emphasizing concrete problems and applications; random variables, expectation, conditional probability, law of large numbers, central limit theorem, and stochastic processes.
- 3903 Methods of Problem Solving (1) F Prereq.:** MATH 1552 and MATH 2070, 2085, or 2090. May be taken for a max. of 3 hrs. of credit when topics vary. Pass-fail grading. Instruction and practice in solving a wide variety of mathematical and logical problems, and participation in the Putnam competition.
- 3998 Undergraduate Major Seminar (1) V May be taken for a max. of 4 hrs. of credit. Pass-fail grading. Topics of current interest.**
- 4003 Instructional Strategies in Mathematics (1) F,S Prereq.:** MATH 3002, EDCI 3002, and concurrent enrollment in EDCI 4003. Instructional activities and strategies for mathematics that depart from the lecture style cooperative learning or open-ended exploration; students will design and conduct a mathematics lesson using such strategies.
- 4004 Mathematics Education Capstone Course (3) F,S Prereq.:** MATH 4003, EDCI 4003, and concurrent enrollment in EDCI 4004. Student should be within two semesters of completion of requirements for a mathematics major. Same as MATH 4020 with special education emphasis for students in the secondary education area of concentration.
- 4005 Geometry (3) S Prereq.:** MATH 2040. The foundation of geometry, including work in Euclidean and non-Euclidean geometries.
- 4019 Calculus Internship Capstone (1) Prereq.:** MATH 3003. Provides opportunities for students to consolidate their mathematical knowledge and to obtain a perspective on the meaning and significance of that knowledge. Students will be paired with experienced graduate students and/or master teachers to participate in the planning and instruction of a recitation section for a calculus course.
- 4020 Capstone Course (3) F,S Prereq.:** Students should be within two semesters of completing the requirements for a mathematics major and must have completed a 4000-level mathematics course with a grade of "C" or better, or obtain permission of the department. Provides opportunities for students to consolidate their mathematical knowledge, and to obtain a perspective on the meaning and significance of that knowledge. Course work will emphasize communication skills, including reading, writing, and speaking mathematics.
- 4023 Applied Algebra (3) F,S,Su Prereq.:** MATH 2085 or equivalent. Credit will not be given for both this course and MATH 4200. Finite algebraic structures relevant to computers: groups, graphs, groups and computer design, group codes, semigroups, finite-state machines.
- 4024 Mathematical Models (3) S Prereq.:** MATH 1552 and credit or registration in MATH 2085; or equivalents. Construction, development, and study of mathematical models for real situations; basic examples, model construction, Markov chain models, models for linear optimization, selected case studies.
- 4025 Optimization Theory and Applications (3) S Prereq.:** MATH 2057 and credit or registration in MATH 2085; or equivalent. Basic methods and techniques for solving optimization problems; n-dimensional geometry and convex sets; classical and search optimization of functions of one and several variables; linear, nonlinear, and integer programming.
- 4027 Differential Equations (3) S Prereq.:** MATH 2057 and 2085. Ordinary differential equations, with attention to theory.
- 4031 Advanced Calculus I (3) F Completeness of the real line, Bolzano-Weierstrass theorem and Heine-Borel theorem; continuous functions including uniform convergence and completeness of $C[a,b]$; Riemann integration and the Darboux Criterion.**
- 4032 Advanced Calculus II (3) S Derivative, including uniform convergence, the mean value theorem and Taylor's Theorem; absolute and uniform convergence of series, completeness of sequence spaces, dual spaces; real analytic functions; functions of bounded variation, the Stieltjes integral, and the dual of $C[a,b]$.**
- 4035 Advanced Calculus of Several Variables (3) F Prereq.:** MATH 2085 and 4031. Topology in n-dimensional space, differential calculus in n-dimensional space, inverse and implicit function theorems.
- 4036 Complex Variables (3) F,S Prereq.:** MATH 2057. Analytic functions, integration, power series, residues, and conformal mapping.
- 4038 Mathematical Methods in Engineering (3) F,S,Su Prereq.:** MATH 2065 or 2070 or 2090 and MATH 2057. Also offered as ME 4563. Vector analysis; solution of partial differential equations by the method of separation of variables; introduction to orthogonal functions including Bessel functions.
- 4039 Introduction to Topology (3) V Prereq.:** MATH 4031 or equivalent. Examples and classification of two-dimensional manifolds, covering spaces, the Brouwer theorem, and other selected topics.
- 4050 Interest Theory (3) F Prereq.:** MATH 3355. Measurement of interest (including accumulated and present value factors), annuities certain, yield rates, amortization schedules and sinking funds, and bonds and related securities.
- 4056 Mathematical Statistics (3) S Prereq.:** MATH 3355. Suggested for preparation for actuarial exams. Experimental design, sampling methods, nonparametric methods, hypothesis testing, and regression.
- 4058 Elementary Stochastic Processes (3) S Prereq.:** MATH 2085 and 3355. Markov chains, Poisson process, and Brownian motion.
- 4065 Numerical Analysis I (3) F Prereq.:** MATH 2057. Basic programming ability in Fortran, Pascal, or C. Newton's method, Lagrange interpolation, least-squares approximation, orthogonal polynomials, numerical differentiation and integration, Gaussian elimination.
- 4066 Numerical Analysis II (3) S Prereq.:** MATH 4065 and one of the following: MATH 2065, 2070, 2090, 4027. Numerical solutions of initial value problems and boundary value problems for ordinary and partial differential equations.
- 4153 Finite Dimensional Vector Spaces (3) S Prereq.:** MATH 2057 or 2085. Vector spaces, linear transformations, determinants, eigenvalues and vectors, and topics such as inner product space and canonical forms.
- 4158 Foundations of Mathematics (3) V Prereq.:** MATH 2057 or equivalent. Real number systems, sets, relations, product spaces, order, and cardinality.
- 4171 Theory of Graphs (3) Prereq.:** MATH 2085 or consent of department. Fundamental concepts of undirected and directed graphs, trees, connectivity and traversability, planarity, colorability, network flows, matching theory, and applications.
- 4172 Combinatorics (3) F Prereq.:** MATH 2085 or equivalent. Topics selected from permutations and combinations, generating functions, principle of inclusion and exclusion, configurations and designs, matching theory, existence problems, applications.
- 4181 Elementary Number Theory (3) F Prereq.:** MATH 2057 or 2085. Divisibility, Euclidean algorithm, prime numbers, congruences, and topics such as Chinese remainder theorem and sums of integral squares.
- 4200 Abstract Algebra I (3) F Prereq.:** MATH 2085 or equivalent. Credit will not be given for both this course and MATH 4023. Elementary properties of sets, relations, mappings, integers; groups, subgroups, normal subgroups, quotient groups, homomorphisms, automorphisms, and permutation groups; elementary properties of rings.
- 4201 Abstract Algebra II (3) S Prereq.:** MATH 4200 or equivalent. Ideals in rings, factorization in polynomial rings; unique factorization and Euclidean domains, field extensions, splitting fields, finite fields, Galois theory.
- 4325 Fourier Transforms (3) V Prereq.:** MATH 1552 and at least one from MATH 2057, 2065, 2070, 2085, 2090. For students majoring in mathematics, physics, and engineering. Fourier analysis on the real line, the integers, and finite cyclic groups; the fast Fourier transform; generalized functions; attention to modern applications and computational methods.
- 4340 Partial Differential Equations (3) V Prereq.:** either MATH 2057, 2090, and knowledge of Laplace transforms; or MATH 2057, 2065, or 2070 and 2085. First-order partial differential equations and systems, canonical second-order linear equations, Green's functions, method of characteristics, properties of solutions, and applications.

4345 Special Functions (3) V Prereq.: either MATH 2057 and 2090; or MATH 2057, 2065 or 2070 and 2085.

Sturm-Liouville problems, orthogonal functions (Bessel, Laguerre, Legendre, Hermite), orthogonal expansions including Fourier series, recurrence relations and generating functions, gamma and beta functions, Chebyshev polynomials, and other topics.

4470 Error-Correcting Codes (3) V Prereq.: MATH 2085 or 2090 or equivalent knowledge of linear algebra. Vector spaces over finite fields, basic properties of codes, examples of important codes and decoding schemes, bounds on sizes and rates of codes, the weight enumerator polynomial, perfect codes, and other topics.

4700 History of Mathematics (3) V Prereq.: MATH 2040, 2057, and 2085; students entering the course should have a firm sense of what constitutes a proof. This course will have substantial mathematical content; topics such as early Greek mathematics, from Euclid to Archimedes; algebra and number theory from Diophantus to the present; the calculus of Newton and Leibniz; the renewed emphasis on rigor and axiomatic foundations in the 19th and 20th centuries; interactions of mathematics with technology and the natural sciences; biographies of significant mathematicians.

4997 Vertically Integrated Research (3) F, S May be taken for a maximum of 24 hours with consent of instructor. This course is intended to provide opportunities for students to learn about mathematical research and to engage in mathematical research in a vertically integrated learning and research community. Undergraduate students, graduate students, postdoctoral researchers and faculty may work together as a unit to learn and create new mathematics. Possible formats include group reading and exposition, group research projects, and written and oral presentations.

Undergraduate students may have a research capstone experience or write an honors thesis as part of this course.

4998 Senior Seminar for Mathematics Majors (3) S Prereq.: the student should be within two semesters of completion of requirements for a mathematics major; for undergraduate credit only; under guidance of professor teaching the course, student will undertake several independent reading projects and write expository papers; oral presentations will follow preparation of written papers.

4999 Selected Readings in Mathematics (1-3) Prereq.: consent of department. May be taken for a max. of 9 sem. hrs. credit.

6300 Topics in Mathematics for Secondary Teachers (1-3) V Prereq.: 6 sem. hrs. of mathematics at or above the level of 2040 or equivalent. May be taken for a max. of 6 sem. hrs. credit when topics vary. May be taken by M.N.S. students in mathematics with departmental approval. Areas of current interest to teachers of secondary school mathematics.

6301 Implementing the NCTM Standards I (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary. Enrollment is restricted to participants in the teacher-training and grant-supported programs. Topics for mathematics teachers (K-5) to be selected from those in the Principles and Standards of School Mathematics of the National Council of Teachers of Mathematics.

6302 Implementing the NCTM Standards II (3) May be taken for a max. of 9 sem. hrs. of credit when topic vary. Enrollment is restricted to participants in the teacher-training and grant-supported programs. Topics for mathematics teachers (6-8) to be selected from those in the Principles and Standards of School Mathematics of the National Council of Teachers of Mathematics.

7001 Communicating Mathematics I (1) F Prereq.: consent of department. Practical training in the teaching of undergraduate mathematics; how to write mathematics for publication; other issues relating to mathematical exposition.

7002 Communicating Mathematics II (1) S Prereq.: consent of department. Practical training in the written and oral presentation of mathematical papers; the teaching of mathematics and the uses of technology in the mathematics classroom.

7200 Geometric and Abstract Algebra (3) Prereq.: MATH 2085 or equivalent. Linear algebra, rings, finite fields, groups, multilinear algebra, other topics.

7210, 7211 Algebra I, II (3,3) 7210 offered S; 7211 offered F Prereq.: MATH 7200 or equivalent. Groups: Sylow Theorems, finitely generated abelian groups; rings and modules: exact sequences, projective modules; fields: algebraic, transcendental, normal, separable field extensions; Galois theory, valuation theory, Noetherian and Dedekind domains, topics from commutative rings.

7280 Seminar in Commutative Algebra (1-3) V Prereq.: consent of department. May be repeated for credit with consent of department. Advanced topics such as commutative rings, homological algebra, algebraic curves, or algebraic geometry.

7290 Seminar in Algebra and Number Theory (1-3) V Prereq.: consent of department. May be repeated for credit with the consent of the department. Advanced topics such as algebraic number theory, algebraic semigroups, quadratic

forms, or algebraic K-theory.

7311 Real Analysis I (3) Prereq.: MATH 4032 or equivalent. Axiom of choice, Lebesgue measure and integration, convergence theorems, bounded variation and absolute continuity, differentiation, Minkowski-Holder inequalities, Riesz-Fischer theorem.

7312 Real Analysis II (3) Prereq.: MATH 7311 or equivalent. Ascoli theorem, Stone-Weierstrass theorem, Hahn-Banach theorem, uniform boundedness theorem, Hilbert spaces, weak topologies, general measure and integration, Riesz representation theorem, other related topics.

7320 Ordinary Differential Equations (3) S Prereq.: MATH 2085 and 4031; or equivalent. Existence and uniqueness theorems, approximation methods, linear equations, linear systems, stability theory; other topics such as boundary value problems.

7325 Numerical Analysis and Applications (3) S Prereq.: MATH 4065 or equivalent. Finite difference methods; finite element methods; iterative methods; methods of parallel computing; applications to the sciences and engineering.

7330 Functional Analysis (3) V Prereq.: MATH 7312 or equivalent. Banach spaces and their generalizations; Baire category, Banach-Steinhaus, open mapping, closed graph, and Hahn-Banach theorems; duality in Banach spaces, weak topologies; other topics such as commutative Banach algebras, spectral theory, distributions, and Fourier transforms.

7350 Complex Analysis (3) V Prereq.: MATH 7311 or equivalent. Theory of holomorphic functions of one complex variable; path integrals, power series, singularities, mapping properties, normal families, other topics.

7360 Probability Theory (3) F Prereq.: MATH 7311 or equivalent. Probability spaces, random variables and expectations, independence, convergence concepts, laws of large numbers, convergence of series, law of iterated logarithm, characteristic functions, central limit theorem, limiting distributions, martingales.

7370 Lie Groups and Representation Theory (3) V Prereq.: MATH 7312, 7200, and 7510 or equivalent. Lie groups, Lie algebras, subgroups, homomorphisms, the exponential map. Also topics in finite and infinite dimensional representation theory.

7375 Wavelets (3) S Prereq.: MATH 7311 or equivalent. Fourier series; Fourier transform; windowed Fourier transform or short-time Fourier transform; the continuous wavelet transform; discrete wavelet transform; multiresolution analysis; construction of wavelets.

7380 Seminar in Functional Analysis (1-3) V Prereq.: consent of department. May be repeated for credit with consent of department. Advanced topics such as topological vector spaces, Banach algebras, operator theory, or nonlinear functional analysis.

7384 Topics in the Mathematics of Material Science (3) V Prereq.: Consent of department. May be repeated for credit with consent of department for a maximum of 9 credit hours. Advanced topics in the mathematics of material science, including mathematical techniques for the design of optimal structural materials, solution of problems in fracture mechanics, design of photonic band gap materials, and solution of basic problems in the theory of superconductivity.

7386 Theory of Partial Differential Equations (3) V Prereq.: MATH 7330. Sobolev spaces. Theory of second order scalar elliptic equations: existence, uniqueness, and regularity. Additional topics such as: direct methods of the calculus of variations, parabolic equations, eigenvalue problems.

7390 Seminar in Analysis (1-3) V Prereq.: consent of department. May be repeated for credit with consent of department. Advanced topics such as harmonic analysis, partial differential equations, Lie group representation theory, several complex variables, or probability theory.

7400 Combinatorial Theory (3) S Prereq.: MATH 7200 or equivalent. Problems of existence and enumeration in the study of arrangements of elements into sets; combinations and permutations; other topics such as generating functions, recurrence relations, inclusion-exclusion, Polya's theorem, graphs and digraphs, combinatorial designs, incidence matrices, partially ordered sets, matroids, finite geometries, Latin squares, difference sets, matching theory.

7490 Seminar in Combinatorics, Graph Theory, and Discrete Structures (1-3) V Prereq.: consent of department. May be repeated for credit with consent of department. Advanced topics such as combinatorics, graph theory, automata theory, or optimization.

7510 Topology I (3) Prereq.: MATH 2057 or equivalent. Basic notions of general topology, with emphasis on Euclidean and metric spaces, continuous and differentiable functions, inverse function theorem and its consequences.

7512 Topology II (3) Prereq.: MATH 7510. Theory of the fundamental group and covering spaces including the Seifert-Van Kampen theorem; universal covering space; classification of covering spaces; selected areas from

algebraic or general topology.

7520 Algebraic Topology (3) S Prereq.: MATH 7200 and 7510; or equivalent. Basic concepts of homology, cohomology, and homotopy theory.

7550 Differential Geometry and Topology (3) F Prereq.: MATH 7200 and 7510; or equivalent. Manifolds, vector fields, vector bundles, transversality, Riemannian geometry, other topics.

7590 Seminar in Geometry and Algebraic Topology (1-3) V Prereq.: consent of department. May be repeated for credit with consent of department. Advanced topics such as advanced algebraic topology, transformation groups, surgery theory, sheaf theory, or fiber bundles.

7690 Seminar in Topological Algebra (1-3) V Prereq.: consent of department. May be repeated for credit with consent of department. Advanced topics such as topological groups, topological semigroups, or topological lattices.

7999 Selected Readings in Mathematics (1-3) Prereq.: g consent of department. May be repeated for credit with consent of department.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

MECHANICAL ENGINEERING • ME

2212 Introduction to Mechanical Engineering Design (2) Prereq.: ENGL 1001, CM 1020 or 1030, PHYS 2101, ME 2533, or equivalent. 1 hr. lecture; 2 hrs. lab. Art and science of Mechanical Engineering design; reverse engineering; design methodologies; product realization; professional ethics; professional development.

2334 Thermodynamics (4) Prereq.: Grade of "C" or better in CHEM 1202, MATH 1552, PHYS 2101; credit or registration in ME/CSC 2533. Thermodynamic systems and control volumes; thermodynamic properties of simple substances, work and heat; 1st and 2nd law; power and refrigeration cycles; ideal gas mixtures, water-vapor mixtures and psychrometric chart; combustion.

2533 Introduction to Engineering Computation (3) 2 hrs. lecture; 3 hrs. lab. See CSC 2533.

2723 Materials of Engineering for Mechanical Engineers (3) Prereq.: CHEM 1202 and credit or registration in PHYS 2102. Credit will not be given for both this course and ME 2733. Classification and study of engineering materials, their structure, properties, and behavior; typical metals and alloys, plastics and rubber, and ceramic materials; phase equilibria and manipulation of properties and behavior by adjustment of composition and processing variables; responses of engineering materials to stress and environmental variables; emphasis on Mechanical Engineering applications such as fracture and heat treatment processes.

2733 Materials of Engineering (3) Prereq.: CHEM 1201 and credit or registration in PHYS 2102. Not open to Mechanical Engineering majors. Credit will not be given for both ME 2723 and ME 2733. Classification and study of engineering materials, their structure, properties, and behavior; typical metals and alloys, plastics and rubber, and ceramic materials; phase equilibria and manipulation of properties and behavior by adjustment of composition and processing variables; responses of engineering materials to stress and environmental variables.

3133 Dynamics (3) S,Su Prereq.: Grade of "C" or better in CE 2450 and MATH 1552, credit or registration in CHEM 1212 or PHYS 2108. 2 hrs. lecture; 2 hrs. recitation. Vectorial treatment of kinematics and kinetics of particles and rigid bodies; force, mass, acceleration; impulse and momentum; work and energy.

3143 System Dynamics and Modeling (3) F Prereq.: CSC/ME 2533, ME 3133, grade of "C" or better in MATH 2090, and credit or registration in ME 3834. Bond graph and lumped-parameter techniques for deriving dynamic equations of physical systems; time and frequency domain analyses, numerical simulation of mechanical systems.

3249, 3250 Engineering Practice (1-3,1-3) Su Prereq.: ME 2334 and consent of instructor. Pass-fail grading. A minimum of 6 weeks of full-time employment by an industry participating in the summer program. Selected engineering problems in an industrial environment.

3333 Thermodynamics (3) Prereq.: PHYS 2101 and MATH 1552; or equivalent. Not open to mechanical engineering majors. Basic laws of thermodynamics, availability, perfect gases and pure substances, fluid flow, and basic heat transfer.

3603 Instrumentation and Measurement (3) Prereq.: EE 3950, ME 3143; and proficiency in English as required by the College of Engineering. 2 hrs. lecture; 3 hrs. lab. Basic science and technology of instrumentation and measurement systems; fundamental measurement theory; statistical error estimation; error propagation; instrumentation specifications; analog and digital instrumentation fundamentals; data acquisition and

analysis; extensive technical report writing.

3633 Manufacturing Processes & Methods (3) Prereq.: CM 1020 or 1030, and ME 2723 or 2733. 2 hrs. lecture; 3 hrs. lab. Modern manufacturing processes integrated into total manufacturing systems; CAD/CAM flexible manufacturing operations; metal casting, forming, removal; welding processes and machinery; fine measurement, inspection, and quality assurance.

3701 Materials of Engineering Laboratory (1) Prereq.: proficiency in English as required by the College of Engineering; ME 2723 or 2733; and credit or registration in CE 3400. Demonstrative and participative experiments to develop better understanding of characteristics of metals, ceramics, and plastics.

3752 Material Selection for Mechanical Engineers (2) S Prereq.: ME 3701 or equivalent; credit or registration in CE 3400. Analysis of mechanical and other properties of engineering materials required for material selection; advanced engineering materials in mechanical engineering; applications and problems in processing and shaping; materials in selected mechanical systems.

3834 Fluid Mechanics (4) F Prereq.: ME 2334, 3133; and a grade of "C" or better in MATH 2090. Statics, kinematics, and dynamics of continuum liquids and gases; conservation laws (mass, momentum, energy); integral analysis; differential analysis; dimensional analysis and similarity; internal and external viscous flows; compressible flows.

3903 Special Projects for Undergraduates (3) Prereq.: 2.50 cumulative gpa with consent of department. May be taken for a max. of 9 hrs. of credit. Library research, comprehensive design problems, and laboratory investigations.

4133 Machine Design I: Kinematics of Machinery (3) F Prereq.: ME 2533 and 3133; or equivalent. Kinematic and dynamic analysis and synthesis of mechanisms.

4143 Mechanical Vibrations (3) Prereq.: CE 3400, ME 3143, 4133; and a grade of "C" or better in MATH 2090; or equivalent. Basic principles of oscillating mechanical systems; single and multiple degrees of freedom; dynamic balancing; applications to mechanical systems; continuous systems vibrations.

4153 Kinematic Synthesis of Mechanisms (3) S Prereq.: ME 4133 or equivalent. Three-dimensional mechanisms; emphasis on computer solution methods.

4163 Intermediate Dynamics (3) F Prereq.: ME 3133 and a grade of "C" or better in MATH 2090. Rotating reference frames, rigid body kinetics in three dimensions, central force motion, variable mass problems, and Lagrange's equations.

4183 Theory and Design of Mechanical Control Systems (3) F Prereq.: grade of "C" or better in MATH 2090; ME 3143, and credit or registration in ME 3603. Basic principles, concepts, characteristics, and performance of linear feedback control systems; stability of linear systems; frequency response methods; compensator design in the frequency domain.

4201 Mechanical Engineering Design Laboratory (1) Prereq.: credit or registration in ME 4183 or equivalent. 3 hrs. lab. Experiments involving basic concepts in machine design.

4202 Mechanical Engineering Capstone Design II (2) Prereq.: ME 3633, 3752, 4243, 4433, 4183. 6 hrs. lab. Principles from heat transfer, thermodynamics, design, fluids, and materials courses utilized to complete the project set forth in the preliminary design outline submitted in ME 4243.

4243 Mechanical Engineering Capstone Design I (3) Prereq.: ECON 2030, ME 2212, 4244, senior standing in the College of Engineering, and credit or registration in ME 3633, 3752, 4183, and 4433; or equivalent. 2 hrs. lecture; 2 hrs. lab. Design project will be selected and approved (to be completed in ME 4202); project feasibility study and outline of the design project will be completed; design methodology, optimization, product reliability and liability, economics, use of ASME codes, and professional ethics.

4244 Machine Design II: Strength Considerations and Component Design (4) S Prereq.: CE 3400 and credit or registration in ME 4133. Design, three-dimensional stress analysis; deflection and stiffness; static and dynamic loading; failure theories and fatigue; fasteners; welded joints; mechanical springs; bearing; gears; shafts; clutches; brakes and couplings; belts and pulleys.

4253 Introduction to Bearing Design and Lubrication (3) Prereq.: ME 4433 or equivalent. Analysis and design of tribological components particularly hydrodynamic bearings; computational modeling and other modern developments in the field.

4353 Advanced Engineering Thermodynamics (3) S Prereq.: ME 2334 or equivalent. Postulational treatment of laws of thermodynamics; equilibrium and maximum entropy postulates; development of formal relationships; principles and application to general systems.

4383 Thermal System Design (3) Prereq.: ECON 2030, ME 2334, and ME 4433. Principles and practices concerning the design and optimization of thermal systems.

4433 Heat Transfer (3) Prereq.: ME 2334 or 3333, ME

3834; a grade of "C" or better in MATH 2090; or equivalent. Principles of heat transfer by conduction, radiation, and convection.

4443 Introduction to Combustion (3) S Prereq.: ME 4433. Basic principles of combustion and their application in solving engineering problems.

4453 Laser Methods in Engineering (3) Prereq.: senior standing in the College of Engineering. Basic principles of lasers and their application to engineering problems.

4533 Engineering Use of Electronic Computers (3) Prereq.: ME 2533 or equivalent; or graduate standing. General rules of programming; construction of programs to solve mathematical problems common to all engineers; numerical methods including solutions to linear and nonlinear differential equations, least-squares approximation, interpolations, and integration.

4563 Mathematical Methods in Engineering (3) See MATH 4038.

4573 Interactive Computer Graphics (3) Prereq.: experience in mathematics and computer programming. Also offered as CSC 4356. Analytical treatment of graphics using the digital computer; graphical display and input devices; computer graphics systems and standards; two- and three-dimensional transformations; geometric modeling; interactive techniques; basic data structures; realism in 3-D graphics; future trends.

4583 Applied Interactive Graphics and Computer-Aided Design (3) F Prereq.: ME 4573 or equivalent. Also offered as CSC 4357. Application of interactive graphics techniques to solve specific problems in engineering design and data retrieval.

4611 Thermal System Laboratory (1) Prereq.: ME 2334 or equivalent and credit or registration in ME 4433 and 3603. 3 hrs. lab. Oral presentations required. Thermal system analysis and independent experimentation.

4621 Thermal Science Laboratory (1) Prereq.: ME 3603, 3834, 4433, or equivalent. Laboratory demonstrations and experimentation in fluid mechanics, thermodynamics, and heat transfer concepts.

4633 Internal Combustion Engines (3) Prereq.: ME 2334 or 3333 or equivalent. Classification of internal combustion engines, gas turbines, cycles with different components, spark-ignition gasoline engines, detonation, carburetion, compression-ignition engines, combustion and diesel knock, fuel atomization and atomizers, combustion chambers, two- and four-stroke cycle engines, and supercharging.

4643 Thermal Environmental Engineering (3) Prereq.: ME 2334 and credit or registration in ME 4433; or equivalent. Design of thermal environment for humans, animals, processes, and inanimate objects; the means of control.

4663 Power Plant Engineering (3) Prereq.: ME 2334 and 4433; or equivalent. Power plants for industrial and central-station use; emphasis on cycles, design, capabilities, and economics of the plant as a whole; components used in various types of plants.

4673 Introduction to Modern Control Theory (3) Prereq.: ME 4183 or equivalent. State space modeling, controllability, observability and stability, pole placement, optimal control laws via minimum principle and dynamic programming.

4683 Sensors and Actuators (3) V Prereq.: EE 3950, ME 3143. Basic knowledge and operational principles of various transduction (sensing and actuating) methods, especially electro mechanical sensors and actuators; actual designing, building, and testing transducers.

4723 Advanced Materials Analysis (3) F Prereq.: ME 2723 or 2733, 3701 or equivalent. 1 hr. lecture; 6 hrs. lab. Concepts and operation of modern analytical instruments using photon or electron beams and X-rays; macroscopic and microscopic examination of materials coupled with separate and combined testing of mechanical, tribological, and corrosion properties.

4733 Deformation and Fracture of Engineering Materials (3) F Prereq.: CE 3400 and either ME 2723 or 2733 or equivalent. Effect of temperature, strain rate, corrosion, and microstructure on stress-strain behavior and fracture of engineering materials, including metals, ceramics, and plastics.

4743 Kinetics in Materials Processes (3) Prereq.: ME 2334, ME 2723 or 2733 or equivalent. Applications of the principles of diffusion, phase transformation, and thermodynamics to describe the kinetics of microstructural evolution in engineering materials.

4763 Fundamentals of Corrosion Science and Engineering (3) F Prereq.: ME 2723 or 2733 or equivalent and any first course in thermodynamics. Corrosion principles; polarization, passivation, inhibition, and other phenomena; principal methods used in corrosion prevention.

4783 Composite Materials: Manufacturing, Properties, and Design (3) Prereq.: ME 2723 or 2733 and CE 3400 or equivalent. Constituent materials, micro- and macromechanics, mechanical behavior, fracture, manufacturing and design of components made of composite materials, including polymer, ceramic, and metal matrix

materials.

4813 Interdisciplinary Fluid Dynamics: Physical Concepts (3) Prereq.: Diff. Equations and Introductory Physics. Also offered as HNRS 4813. An introduction to fluid dynamics from a multi-disciplinary perspective, emphasizing theoretical, mathematical and physical concepts of fluid flows, and their application to a range of physical scales and disciplines.

4823 Interdisciplinary Fluid Dynamics: Computational Methods (3) Prereq.: Diff. Equations, Linear Algebra, and Computer Programming. Also offered as HNRS 4823. Numerical solution strategies for differential equations relevant to fluid flow and transport processes. Finite-difference, finite-volume, and finite-element methods. Parallel computations.

4843 Gas Dynamics (3) Prereq.: ME 2334; a grade of "C" or better in MATH 2090; or equivalent. Derivation and review of basic equations of compressible fluid flow; reduction of the general problem to 1-D flow; 1-D flow in nozzles with and without friction; 1-D flow with heat addition; normal shock wave, Prandtl-Myer turn, and oblique shock waves.

4853 Turbomachinery (3) Prereq.: ME 2334, 3834, and 4433. Preliminary design of axial- and radial-flow pumps, compressors, and turbines; determination of optimum flow angles and dimensions, blade design, blade selection, and performance prediction.

4933 Advanced Topics in Mechanical Engineering (3) May be taken for a max. of 6 hrs. of credit when topics vary. Two sections may be taken concurrently.

4943 Special Problems in Aerospace Engineering (3) Prereq.: senior standing in mechanical engineering or related discipline. May be taken for a max. of 12 sem. hrs. of credit when topics vary. Aerodynamic problems of special interest in the analysis and design of water, land, air, and space transportation systems.

7153 Advanced Vibrations (3) Prereq.: ME 4143 or equivalent. Modeling and response of continuous vibratory systems; inverse problems in vibration; active vibration control; dynamic absorption; wave propagation and reflection; numerical methods for continuous systems.

7233 Advanced Machine Design (3) S Prereq.: ME 4244 or equivalent.
7243 Bearing Design and Lubrication (3) Prereq.: consent of instructor. Derivation of fluid flow in bearings; principles of hydrodynamics lubrication and application to journal and thrust bearings; effect of environment on type of lubrication systems and lubricants; heat generation in bearing and heat transfer; compressible fluid and solid lubricants.

7263 Computer-Aided Geometric Modeling (3) S Prereq.: ME 4573 or equivalent. Mathematical elements of modeling complex free-form geometry in two and three dimensions for design, analysis, and display; wireframe, surface, and solid geometric modeling; computer graphics and algebraic, computational, and projective geometry.

7433 Advanced Heat Transfer I (3) F Prereq.: MATH 4038 or equivalent. Steady and transient heat conduction.

7443 Advanced Heat Transfer II (3) F Prereq.: ME 7843 or equivalent. Convection heat transfer.
7453 Advanced Heat Transfer III (3) S Prereq.: consent of instructor. Radiation heat transfer and advanced topics.

7533 Numerical Methods in Applied Mechanics (3) Computer methods used to solve engineering problems; advanced numerical methods.

7603 Advanced Experimental Methods (3) S Prereq.: consent of instructor. 2 hrs. lecture; 3 hrs. lab. Applied course in contemporary analog and digital laboratory tools and techniques.

7633 Advanced Engineering System Dynamics (3) Prereq.: ME 4183 or equivalent. Dynamic system modeling; bond graphs; state-determined systems; simulation; controllability/observability.

7643 Advanced System Modeling (3) Prereq.: ME 7633 or equivalent. Mathematical models and dynamic behaviors of engineering systems in multi-energy domains; bond-graph modeling methods, simulations using contemporary software.

7673 Advanced Mechanical Systems Control (3) Prereq.: ME 4183 or equivalent. Design and analysis of nonlinear control systems; adaptive and robust control techniques; state estimation; stability theory; control and stability of distributed parameter systems.

7723 Materials Characterization Using Electron Beam Methods (3) Prereq.: ME 2723 or 2733. 2 hrs. lecture; 3 hrs. lab. Theory and principles of electron optics, electron microscopy, and spectroscopy; preparation, observation, and characterization of materials by electron beams.

7733 Flow and Fracture in Solids (3) S Prereq.: CE 4440 or equivalent. Plastic deformation of single crystals and polycrystalline aggregates; theories of ductile and brittle fracture; internal friction; fatigue, creep and stress rupture;

residual stresses; plastic forming of metals.

7743 Defects, Diffusion, and Transformations in Solids (3) S Prereq.: ME 2723 or 2733 or equivalent. Defects and atomistic mechanisms, dislocation theory, quantitative description of diffusion processes, and phase transformations in materials.

7753 Thermodynamics of Solid Materials (3) Prereq.: ME 2723 or 2733 and any first level course in thermodynamics. Review of first and second laws of thermodynamics; material property relationships; chemical equilibrium in reactions; solid solutions and phase diagram enunciations; reaction kinetics and nonequilibrium thermodynamics.

7763 Advanced Corrosion Science and Engineering (3) S Prereq.: ME 4763 or equivalent. Advanced topics in corrosion; stress corrosion, high temperature corrosion, hydrogen embrittlement, etc.; thermodynamics of surfaces and corrosion.

7813 Computation of Boundary Layer Flows and Heat Transfer (3) Prereq.: ME 3834 and 4433 or equivalent, and ME 4533 or equivalent. Finite-difference methods for the solution of parabolic or boundary layer equations; use of a computer program for two-dimensional boundary layers; wall boundary layers, jets and wakes, flows in pipes, annuli, nozzles, and diffusers.

7823 Computation of Fluid Flow and Heat Transfer (3) Prereq.: ME 3834, 4433 and ME 4533; or equivalent.

Finite-difference methods for solving equations of fluid motions and energy; computer program used to solve complex problems involving fluid flow, heat transfer, and chemical reaction; mathematical models for turbulence, radiation, and combustion; their computing implications; application of prediction procedures for practical situations.

7833 Inviscid Fluid Flow (3) S Prereq.: ME 7863 or equivalent. Potential flow theory and gas dynamics; multi-dimensional compressible flow; computational gas dynamics.

7843 Viscous Fluid Flow (3) S Prereq.: ME 7863 or equivalent. Navier-Stokes equations; Stokes and Oseen approximations for low Reynolds number flows; incompressible laminar boundary layer theory; turbulent boundary layers, compressibility effects, and numerical methods.

7853 Advanced Boundary Layer Theory (3) S Prereq.: ME 7843 or equivalent. NonNewtonian and turbulent fluid mechanics.

7863 Fluid Dynamics (3) F Prereq.: credit or registration in MATH 4038 or equivalent. Fluid dynamics as continuum mechanics; potential flow using complex variables in two dimensions and superposition in three dimensions; viscous flow and Navier-Stokes equations; compressible flow, including mach waves, shocks, and linearized aerodynamics.

7901 Seminar (1) All graduate students are expected to attend this course every semester; only 1 sem. hr. of credit in this course allowed toward degree. Pass-fail grading.

7903 Independent Study in Mechanical Engineering (3) May be taken for a max. of 6 hrs. of credit. Directed independent study for graduate students.

7933, 7943 Mechanical Engineering Problems (3,3)

7953 Advanced Topics in Mechanical Engineering (3) May be taken for a max. of 6 hrs. of credit when topics vary, with consent of department. Mechanical engineering treatment of various areas of interest.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

MEDICAL PHYSICS • MEDP

General education courses are marked with stars (★).

★ **2051 Radiation Science for Medical Applications (3) F,S** Matter and energy; structure of the atom and nucleus; radioactivity; types of radiation; radiation interactions; dose and biological effects; radiation detection and safety; background radiation; applications of nuclear science in medicine, cancer therapy, and imaging.

4101 Tracer Methodology for Biological Sciences (3) F,S,2 hrs. lecture; 3 hrs. lab. Specially for students in the biological sciences. Properties of ionizing radiation, instruments for detection and measuring radiation, and biological use of radioisotopes.

4111 Introduction to Medical Imaging (3) S Prereq.: PHYS 2002 or equivalent; MATH 1550 or equivalent. Physics and engineering aspects of medical imaging systems: X-ray imaging, computed tomography, magnetic resonance imaging, ultrasound, and nuclear medicine; clinical applications and limitations of the modalities.

4331 Radiation Protection and Exposure Evaluation (3) F Prereq.: PHYS 2102 or equivalent. Control and evaluation of radiation exposure, including external and internal dosimetry, techniques of dose reduction, and consequences of radiation exposure.

4332 Radiation Detection Laboratory (1) F Prereq.: credit or registration in MEDP 4351. 3 hrs. lab. Laboratory

exercises covering fundamental principles of radiation detection systems and data analysis techniques used for radiation measurements in radiation therapy, radiological imaging, and medical health physics.

4351 Radiation Detection and Instrumentation (2) F Prereq.: PHYS 4098 or equivalent, credit or registration in MEDP 4331 or equivalent; consent of instructor.

Introduction to the physics of detection, instrumentation, and data analysis used to measure ionizing radiation (gamma rays, x-rays, neutrons, and charged particles) using scintillation crystal, solid state, film, and gas detectors. Provides understanding of underlying principles of detection systems used in radiation therapy, radiological imaging, and health physics.

4991 Special Problems in Medical Physics and Health Physics (1-4) Prereq.: thorough knowledge of mathematics, science, and engineering related to the topic or proposed problem; and consent of instructor. May be taken for a max. of 12 sem. hrs. of credit when topics vary. Theoretical or experimental problems involving the application of medical physics and health physics technology.

4995 Seminar (1) F,S Elective seminar especially for undergraduate minors in nuclear science, and undergraduate majors in physics and astronomy with a concentration in medical physics. Course may be repeated on audit basis only.

7101 Advanced Tracer Methodology for Biological Sciences (3) F,S Prereq.: MEDP 4101. 2 hrs.

lecture/demonstration; 3 hrs. lab. Qualitative and quantitative aspects of tracer applications in modern biological research; combining tracer techniques with other analytical methods.

7111 Advanced Medical Imaging Physics (3) F Prereq.: MEDP 4111, MATH 1552. Topics related to advanced

research and clinical imaging physics; theory of image formation; quantitative analysis of imaging systems by Fourier methods and QC/acceptance testing; Radon transform and theory of image reconstruction; tracer methodology for quantitative imaging.

7121 Radiobiology (3) S Prereq.: MEDP 4331 or consent of instructor. 2 hrs. lecture; 3 hrs. lab. Effects of ionizing radiation on cellular, molecular, and organ systems levels of biological organization; study of x-rays, gamma rays, accelerator beams, and neutrons in interaction with living systems; cohesive treatment of radiation biophysics with applications in medical physics and radiation oncology.

7210 Clinical Principles of Radiation Therapy (3) S Prereq.: MEDP 7121, 7331. Open only to students currently enrolled in the Master of Science in Medical Physics and Health Physics program. Introduction by practicing radiation oncologists to the evolution of radiation therapy, general oncology considerations, tumor radiobiology, non-intentional effects of radiation, and altered fractionation. Discussion of tumor biopsy and behavior, normal tissue effects, and treatment planning and delivery techniques for specific organ systems.

7260 Clinical Radiation Therapy Physics Rotation (3) F Prereq.: MEDP 7331. Open only for students currently enrolled in the Master of Science in Medical Physics and Health Physics program. Under the direction of clinical staff, introduction to the radiation therapy clinic and clinical duties of the medical physicist in patient treatment planning, monitor unit calculations, construction of treatment aids, treatment delivery techniques, in-vivo dosimetry, dose measurements, and quality assurance associated with external beam photon and electron therapy.

7270 Advanced Radiation Therapy Physics (3) F Prereq.: MEDP 7331. 3 hrs. lecture. Basic principles of clinical indications, radiation delivery, treatment planning, dose calculations, dose measurements, and quality assurance for advanced treatment techniques used in radiation therapy (external beam electron, proton, and photon therapy and internal brachytherapy).

7280 Advanced Clinical Radiation Therapy Physics Rotation (2) S Prereq.: MEDP 7260, MEDP 7270. Open only for students currently enrolled in the Master of Science in Medical Physics and Health Physics program. Under the supervision of clinical medical physics staff, introduction to the planning, delivery, and dosimetric aspects of advanced radiation therapy treatments such as brachytherapy, stereotactic radiosurgery, total skin electron therapy, intensity modulated radiotherapy, and image guided radiotherapy and to the advanced physical practices of accelerator quality assurance and radiation therapy shielding design.

7331 Radiation Therapy Physics (3) S Prereq.: MEDP 4331. Fundamental physical principles, operation of delivery equipment, treatment planning principles, methods of dose calculations, determination of irradiation time from dose prescription, dose measurements, and quality assurance for external beam therapy (photons and electrons) and internal brachytherapy.

7530 Radiation Shielding (2) S Prereq.: MEDP 4331, 7537. Calculation of source term, geometric transformations, and attenuating factors associated with photon, neutron, and

charged particle shielding; calculation of dose and dose equivalents; current governmental regulations and professional recommendations for shielding; shielding design for medical radiation facilities.

7537 Radiation Interactions and Transport (3) F Prereq.: PHYS 2203 or equivalent, CSC 2262 or equivalent experience in computer programming. Also offered as PHYS 7537. Photon, neutron, and electron interactions and energy deposition, the Boltzmann equation, elementary analytical solutions; deterministic computational methods including spherical harmonics and discrete ordinates techniques; continuous slowing down and Fokker-Planck approximations.

7538 Monte Carlo Simulation of Radiation Transport (3) S Prereq.: MEDP 7537 or consent of instructor, CSC 2262 or equivalent experience in computer programming. Also offered as PHYS 7538. Radiation transport simulation by the Monte Carlo method; phase-space tracking; dose response estimators, biasing methods; integral form of the Boltzmann equation; condensed-history method for charged particles; neutron, photon, and electron transport calculations for shielding and medical physics applications.

7991 Advanced Projects in Medical Physics and Health Physics (1-3) Prereq.: MEDP 4111 or 7331 and consent of instructor. May be taken for a max. of 6 sem. hrs. credit. Medical physics or health physics projects that study particular aspects of radiation therapy, medical imaging, or medical health physics.

7992 Advanced Topics in Medical Physics and Health Physics (1-3) Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. of credit when topics vary.

Advanced treatment of a specific area of medical physics or health physics technology of current interest.

7995 Seminar (1) F,S Required every semester for degree candidates in medical physics and health physics. Only 1 sem. hr. of credit may be counted toward degree.

7999 Report Investigation (1-6) Prereq.: MEDP 4111 or 7331 and consent of instructor. May be taken for a max. of 12 sem. hrs. credit. Detailed investigation of a research problem or a technical design project.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

MILITARY SCIENCE • MILS

Nonimmigrant aliens require approval from their governments prior to enrollment in these courses.

1010 Rifle and Pistol Marksmanship (1) 1 hr. lecture; 1 hr. lab. Restricted to freshmen and sophomores or permission of instructor. Rifle and pistol safety; breathing techniques; zeroing; physical and mental conditioning; sighting and aiming; standard firing positions; practical application on indoor firing range.

1011 Leadership and Personal Development (1) F,S 1 hr. lecture; 1.5 hrs. lab. Introduction to the personal challenges and competencies critical for effective leadership. Focus on developing basic knowledge and comprehension of Army leadership dimensions while gaining an understanding of the ROTC program, its purpose in the Army, and its advantages for students.

1012 Intro to Tactical Leadership (1) F,S Prereq.: MILS 1011 or permission of instructor. 1 hr. lecture; 1.5 hrs. lab. Overview of leadership fundamentals, including setting direction, problem-solving, listening, presenting briefs, providing feedback, and effective writing skills.

1015 Army Physical Fitness Training (1) 3 hrs. lab. Open to all LSU students. May be taken for a max. of 8 sem. hrs. of credit. Development of strength, stamina, agility, coordination, and flexibility through a combined program of group and individual exercise.

2161 Innovative Team Leadership (2) F,S Prereq.: MILS 1011 and 1012 or permission of instructor; 2 hrs. lecture; 1.5 hrs. lab. Explores the dimensions of creative and innovative tactical leadership strategies and styles by studying historical case studies and engaging in interactive student exercises.

2162 Foundations of Tactical Leadership (2) F,S Prereq.: MILS 2161 or permission of instructor; 2 hrs. lecture; 1.5 hrs. lab. Examines the challenges of leading tactical teams in the complex contemporary operating environment (COE). Continued study of the theoretical basis of the Army leadership framework explores the dynamics of adaptive leadership in the context of military operations.

3011 Adaptive Tactical Leadership (4) F Prereq.: MILS 2161 and 2162 or equivalent. 3 hrs. lecture; 3 hrs. lab. Study, practice, and evaluation of adaptive team leadership skills as presented with the demands of the ROTC Leader Development and Assessment Course (LDAC). Challenging scenarios related to small unit tactical operations are used to develop self awareness and critical thinking skills.

3012 Leadership in Changing Environments (4) S Prereq.: MILS 3011. 3 hrs. lecture; 3 hrs. lab. Integrates the principles and practices of effective leadership, military operations and personal development, in order to adequately prepare for the summer Leadership Development Advanced Course (LDAC).

3013 ROTC Advanced Camp (3) Su Prereq.: MILS 3011 and 3012. To receive academic credit, student must enroll in summer session prior to departure for Advanced Camp. Five week course conducted at an Army post with instructors and cadets representing ROTC programs from the United States, Puerto Rico, and Guam. Intense leadership application and training in military skills; oral and written orders, light infantry tactics and weapons systems, and confidence building events.

4011 Developing Adaptive Leaders (4) F Prereq.: MILS 3012. 3 hrs. lecture; 3 hrs. lab. Not for graduate credit. Senior standing required. Development of proficiency in planning, executing, and assessing complex operations, functioning as a member of a staff and providing performance feedback to subordinates. Lessons on military justice and personnel processes prepare students to make the transition to becoming an Army officer.

4012 Leadership in a Complex World (4) S Prereq.: MILS 4011. 3 hrs. lecture; 3 hrs. lab. Not for graduate credit. Senior standing required. Explores the dynamics of leading in the complex situations of current military operations in the Contemporary Operating Environment (COE). Case studies, scenarios, and exercises are also used to prepare students to face the complex ethical and practical demand of leading as a commissioned officer in the U.S. Army.

4055 Civil War (3) See HIST 4055.

4066 Military History of the United States (3) See HIST 4066.

4130 World War II (3) See HIST 4130.

4995 Special Topics in Military History (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary.

MUSIC • MUS

Applied Music and Ensemble Courses

Admission to applied music courses is by audition only.

Secondary and primary applied courses, MUS 2130-2154 and 3130-3154, are offered for 2 or 3 credits. Students who elect 2 credits will receive 30 minutes of individual instruction per week; students who elect 3 credits will receive 60 minutes of individual instruction per week. Graduate applied courses are offered for 2-6 credits.

All applied music and ensemble courses may be repeated for credit every semester.

APPLIED MUSIC COURSES

All students registering for 2130-54 and 3130-54 may be required to participate concurrently in one of the following major performing organizations: MUS 4232, 4233, 4234, 4235, 4236, 4250, 4251, 4252, 4253, 4254, or 4261.

Secondary Applied Music Courses

These courses are designed for students who are not qualified to either major or minor in the specific instrument designated by the course number.

- 2130 Secondary Voice (2-3)
- 2131 Secondary Piano (2-3)
- 2132 Secondary Harpsichord (2-3)
- 2133 Secondary Organ (2-3)
- 2134 Secondary Harp (2-3)
- 2135 Secondary Violin (2-3)
- 2136 Secondary Viola (2-3)
- 2137 Secondary Cello (2-3)
- 2138 Secondary String Bass (2-3)
- 2139 Secondary Flute (2-3)
- 2140 Secondary Oboe (2-3)
- 2141 Secondary Clarinet (2-3)
- 2142 Secondary Saxophone (2-3)
- 2143 Secondary Bassoon (2-3)
- 2144 Secondary Trumpet (2-3)
- 2145 Secondary French Horn (2-3)
- 2146 Secondary Euphonium (2-3)
- 2147 Secondary Trombone (2-3)
- 2148 Secondary Tuba (2-3)
- 2149 Secondary Percussion (2-3)
- 2151 Secondary Composition (2-3)
- 2152 Secondary Guitar (2-3)
- 2153 Secondary Electroacoustic Composition (2-3)
- 2154 Secondary Jazz Study (2-3)

Primary Applied Music Courses

These courses are for students whose declared major or minor is the specific instrument designated by the course number.

- 3130 Primary Voice (2-3)
- 3131 Primary Piano (2-3)
- 3132 Primary Harpsichord (2-3)
- 3133 Primary Organ (2-3)
- 3134 Primary Harp (2-3)
- 3135 Primary Violin (2-3)
- 3136 Primary Viola (2-3)
- 3137 Primary Cello (2-3)
- 3138 Primary String Bass (2-3)
- 3139 Primary Flute (2-3)
- 3140 Primary Oboe (2-3)
- 3141 Primary Clarinet (2-3)
- 3142 Primary Saxophone (2-3)
- 3143 Primary Bassoon (2-3)
- 3144 Primary Trumpet (2-3)
- 3145 Primary French Horn (2-3)
- 3146 Primary Euphonium (2-3)
- 3147 Primary Trombone (2-3)
- 3148 Primary Tuba (2-3)
- 3149 Primary Percussion (2-3)
- 3151 Primary Composition (2-3)
- 3152 Primary Guitar (2-3)
- 3153 Primary Electroacoustic Composition (2-3)
- 3154 Primary Jazz (2-3)

Graduate Applied Music Courses

- 7030 Graduate Voice (2-6)
- 7031 Graduate Piano (2-6)
- 7032 Graduate Harpsichord (2-6)
- 7033 Graduate Organ (2-6)
- 7034 Graduate Harp (2-6)
- 7035 Graduate Violin (2-6)
- 7036 Graduate Viola (2-6)
- 7037 Graduate Cello (2-6)
- 7038 Graduate String Bass (2-6)
- 7039 Graduate Flute (2-6)
- 7040 Graduate Oboe (2-6)
- 7041 Graduate Clarinet (2-6)
- 7042 Graduate Saxophone (2-6)
- 7043 Graduate Bassoon (2-6)
- 7044 Graduate Trumpet (2-6)
- 7045 Graduate French Horn (2-6)
- 7046 Graduate Euphonium (2-6)
- 7047 Graduate Trombone (2-6)
- 7048 Graduate Tuba (2-6)
- 7049 Graduate Percussion (2-6)
- 7051 Graduate Composition (2-6)
- 7052 Graduate Guitar (2-6)
- 7053 Graduate Electroacoustic Composition (2-6)
- 7054 Graduate Jazz Study (2-6)
- 7055 Graduate Collaborative Keyboard (2-6)

ENSEMBLE COURSES

Admission to ensemble courses is by audition only, with the exception of 4230, 4232, and 4233. These courses are open to all students, including freshmen and sophomores. Courses marked with an asterisk (*) will satisfy the major ensemble requirement.

- 4220 Piano Ensemble (1) May be repeated for a max. of 2 sem. hrs. for degree credit.
- 4221 Vocal Chamber Music (1)
- 4222 Woodwind Chamber Music (1)
- 4223 Brass Chamber Music (1)
- 4224 String (or Piano and Strings) Chamber Music (1)
- 4225 Collegium Musicum (1)
- 4226 Percussion Ensemble (1)
- 4227 Marimba Ensemble (1)
- 4228 Contemporary Music Ensemble (1)
- 4229 Harp Ensemble (1)
- 4230 Gospel Choir (1)
- 4231 Swing Choir (1)
- *4232 Men's Chorus (1)
- *4233 Women's Chorus (1)
- *4234 University Chorus (0-1)
- *4235 Chamber Choir (1)
- *4236 A Cappella Choir (1)
- 4240 Opera Chorus (1)
- *4250 Tiger Marching Band (1)
- *4251 Wind Ensemble (0-1)
- *4252 Symphonic Band (0-1)
- *4253 Jazz Band (1)
- *4254 Symphonic Winds (0-1)
- 4255 Chamber Jazz (1)
- 4260 Philharmonia (1)

*4261 Symphony Orchestra (0-1)

GENERAL COURSES

General education courses are marked with stars (★).

1001, 1002 Voice Class (2,2) Open to nonmusic majors with consent of instructor. Group instruction in voice production.

1010 In Concert (1) 2 hrs. lab. May be taken for a max. of 3 hrs. of credit. An elective course open to all University students; designed to develop proper audience etiquette and to expose students to a wide variety of music performances.

1018 Diction for Singers I (1) 2 hr. lab. Entry level course covering pronunciation of Latin and Italian for singing. Utilizing the International Phonetic Alphabet, pronunciation concepts will be supported by recitation and performance of representative song repertoire. Required of all vocal music education and voice performance majors.

1019 Diction for Singers II (1) 2 hr. lab. Entry level course covering pronunciation of German and French for singing. Utilizing the International Phonetic Alphabet, pronunciation concepts will be supported by recitation and performance of representative song repertoire. Required of all vocal music education and voice performance majors.

1020 Performance Craft for Singers (1) Preparatory for MUS 4240. May be taken for a max. of 2 hrs. of credit. Required of all voice performance majors. Workshop exploring performing artistry for the singer through individual coaching and class exercises such as movement, dance, and improvisation; stage terms, stage deportment, and stage etiquette; performance anxiety.

1108, 1109 Piano Class (2,2) MUS 1108 or consent of instructor is prerequisite for 1109. Open only to nonmusic majors. Instruction for the beginner and lower intermediate student.

1130, 1131, 1132, 1133 Group Piano I, II, III, IV (1 each) Open only to music majors. Required of all non-keyboard music majors who do not meet proficiency requirements. Functional use of the piano.

1700 Recital Hour (0) May be repeated. Pass-fail grading. Weekly student recital and music seminar.

1701 Foundations of Music Study (3) A concise survey of the elements of aural and written music theory, musicianship, and related skills. Intended to prepare majors and minors in the School of Music for Theory I and subsequent courses.

1740, 1741 Introduction to Music History I, II (2,2) Fundamental elements of music from historical and cultural perspectives; introduction to historical trends, musical genres, major composers, and score reading; cultivation of studying and writing skills.

★ **1751 Music Appreciation (3) Primarily for nonmusic majors. Credit will not be given for this course and MUS 1755.** The art of music, with emphasis on listening skills; a nontechnical approach to understanding vocabulary and materials of music; correlation of musical literature with other disciplines in the humanities.

★ **1755 HONORS: Music Appreciation (3) Primarily for qualified students not majoring in music. Credit will not be given for this course and MUS 1751.** Study of the musical art emphasizing the development of critical listening skills and a non-technical, but thorough musical vocabulary; additional emphasis placed on the historical correlation of both vernacular and art music to corresponding developments in the other fine arts disciplines.

★ **1799 Rudiments of Music (3) Not open to music majors.** The grammar of music, including basic notation and elementary construction leading to a study of tonal harmony.

1800 Technology in Music Education (2) Music majors only. Introduction to the uses of technology in school music programs; includes discussion of the role and application of technology in K-12 school music settings.

★ **2000 History of Jazz (3) Open to nonmusic majors.** Survey of the evolution of jazz and jazz styles.

2018 Diction for Singers III (1) Required of all voice performance majors. Advanced study of phonetics and pronunciation for German and French songs; utilizing the International Phonetic Alphabet; pronunciation concepts supported by recitation and performance of representative song repertoire.

2019 Diction for Singers IV (1) 1 hr. lecture; 1 hr. lab. The phonetic alphabet and French diction.

★ **2053 Survey of Music History I (3) Prereq.:** grade of "C" or better in MUS 1740 and 1741. Music of Western civilization to ca. 1750.

★ **2054 Survey of Music History II (3) Prereq.:** grade of "C" or better in MUS 1740 and 1741. Music of Western civilization from ca. 1750 to the present.

2170 Music Education in the Elementary School I (3) Music fundamentals, materials, methods, and skills

involved in teaching general music in the elementary school.

2175 Beginning Folk Guitar (3) Beginning level performance class; emphasis on literature and techniques used in the performance of folk music; basic music theory analysis.

2300 Instrumental and Vocal Techniques (1-2) *May be repeated for credit. For prospective secondary school teachers of music. 2 hrs. lecture; 1 hr. lab. Woodwind and brass techniques for instrumental majors, and instrumental and choral techniques for vocal majors each may be taken for 2 hrs. of credit; percussion, strings, and voice for instrumental majors may be taken for 1 hr. of credit only.* Development of fundamental skills in wind, string, and percussion instruments and voice.

2400 Jazz Fundamentals for Teachers (1) *For music education majors only.* Basic jazz techniques and concepts necessary for jazz ensemble and jazz combo instruction in secondary school settings.

2731, 2732 Music Theory I, II (4,4) *Prereq.: passage of placement exam or grade of "C" or better in MUS 1701 is prerequisite for MUS 2731; grade of "C" or better in MUS 2731 is prerequisite for MUS 2732. 3 hrs. lecture; 2 hrs. lab. Credit will not be given for these courses and 2733, 2734.* Basic tonal harmony and voice leading, phrase structure, analysis of musical form and genre; sight-singing and keyboard harmony skills, melodic and harmonic dictation.

2733, 2734 HONORS: Music Theory I, II (4,4) *Same as MUS 2731, 2732, with special honors emphasis for qualified students.*

2741 Composition Techniques I (2-3) *Prereq.: permission of instructor. May be taken for a max. of 9 sem. hrs. of credit.* Development of basic skills in composition; analysis and audition of selected scores.

2751 Jazz Improvisation I (2) *Prereq.: MUS 2732 or equivalent.* Introductory performance course in jazz improvisation; emphasis on its theoretical basis.

2752 Jazz Improvisation II (2) *Prereq.: MUS 2751 or sight-reading. Continuation of MUS 2751.*

3000 HONORS in Music (1-4) *Prereq.: junior standing. May be taken for a max. of 6 sem. hrs. of credit.* Preparation of an honors project.

3018 Vocal Pedagogy (3) *Prereq.: 12 sem. hrs. of applied voice study.* Principles and processes of voice production; psychology of teaching and studying singing; beginning comparative pedagogy; vocal repertoire for the beginning singer.

3020 American Musical Theatre (3) *See THTR 3020.*

3334, 3335 Group Piano V, VI (1,1) *2 hrs. lab.* Functional keyboard skills for rehearsing and accompanying vocal ensembles and soloists; includes sight-reading, score reading, accompanying, playing vocal warm-ups, and coaching piano/vocal ensembles.

3703 Theory Survey (2) *Admission by placement examination. 2 hrs. lecture; 1 hr. lab.* Written aspects of theory.

3704 Theory Survey: Aural Skills (1) *Admission by placement examination. 2 hrs. lab.* Dictation and sight singing.

3710 Overview of Western Music History (3) Survey of Western classical music from the Middle Ages to the present day.

3731, 3732 Music Theory III, IV (4,4) *Prereq.: grade of "C" or better in MUS 2732 is prerequisite for MUS 3731; grade of "C" or better in MUS 3731 is prerequisite for MUS 3732. Credit will not be given for these courses and 3733, 3734.* Advanced tonal harmony; continued form and genre study; post-tonal compositional techniques; basic scoring and score reading; continued mastery of relevant musicianship skills.

3733, 3734 Music Theory I, II (4,4) *Same as MUS 3731, 3732, with special honors emphasis for qualified students.*

3745 Introduction to Computer Music (3) Introduction to techniques and technologies in computer music; principles of digital audio, sound design, music synthesis, signal processing, and sound art composition.

3749 Choral Literature and Conducting I (2) *1 hr. lecture, 2 hrs. lab.* Elements of conducting choral groups.

3750 Choral Literature and Conducting II (2) *Prereq.: MUS 3749 or equivalent. 1 hr. lecture, 2 hrs. lab. Continuation of MUS 3749.*

3757, 3758 Organ Literature, History, and Design (3,3) *MUS 3757 is prerequisite for 3758.* Evolution and development of the organ and its literature; development of keyboard (organ) forms, techniques, and idiomatic styles; organ mechanism and action; tonal structure; design problems.

3771 Instrumental Conducting I (2) Elements of conducting instrumental groups.

3772 Instrumental Conducting II (2) *Prereq.: MUS 3771 or equivalent. 1 hr. lecture; 2 hrs. lab. Continuation of MUS 3771.*

3997 Directed Studies in Music (1-3) *Prereq.: consent of departmental faculty concerned and dean of the School of Music. May be taken for a max. of 6 sem. hrs. of credit. MUS 3997 cannot be used in lieu of a required course in any School of Music curriculum.*

4000 Music Workshops (1-3) *Su only May be repeated for credit when topics vary. Topics announced in advance.*

4005 Fundamentals of Musical Theatre Singing: Technique and Repertoire (1) *Prereq.: permission of instructor. May be taken for a max. of 2 hrs. of credit.* Fundamentals of musical theatre style singing and repertoire; emphasis on vocal and stage performance of literature appropriate to the singer.

4020 Introduction to the Alexander Technique (1) *2 hrs. lab.* Employing the basic principles of the Alexander Technique; students will begin the process of psycho-physical re-education through experimental movement exercises and hands-on work with the instructor.

4030 Meditation for Performers (1) *2 hrs. lab. Not for graduate credit. Pass/fail grading.* Exploration of the various traditions, techniques, and objectives of meditation as they apply to the practice of music.

4101 Piano Accompanying (1) *Open to pianists by permission of instructor. Course may be repeated for a max. of 4 sem. hrs. of credit.* Individual projects in principles and practical applications of accompanying.

4120 Reed Making for Double Reed Majors (1) *1 hr. lab. Recommended for all oboe and bassoon majors. May be taken for a max. of 8 sem. hrs. but with a max. of 2 hrs. credit towards any degree.* Principles of double-reed making with development of individual skill and application of reed making and finishing.

4124 String Literature (2) *Prereq.: 12 sem. hrs. of applied string instrument study or consent of instructor. May be repeated once.* Independent study in solo and ensemble literature for stringed instruments.

4126 Woodwind Literature (2) *Prereq.: 12 sem. hrs. of applied wind instrument study or consent of instructor. May be repeated once.* Independent study in solo and ensemble literature for woodwind instruments.

4128 Brass Literature and Pedagogy (2) *Prereq.: 12 sem. hrs. of applied brass instrument study or consent of instructor. May be repeated once.* Independent study in solo and ensemble literature and methods and materials for instruction in brass instruments.

4130 Percussion Literature and Pedagogy (2) *Prereq.: 12 sem. hrs. of applied percussion instrument study or consent of instructor. May be repeated once.* Independent study in solo and ensemble literature and methods and materials for instruction in percussion instruments.

4172 Stringed Instrument Pedagogy (2) *Prereq.: 12 sem. hrs. of applied string instrument study or consent of instructor.* Independent studies in methods and materials for instruction in stringed instruments.

4173 Woodwind Instrument Pedagogy (2) *Prereq.: 12 sem. hrs. of applied wind instrument study or consent of instructor.* Independent studies in methods and materials for instruction in woodwind instruments.

4215 Music Technology I (3) *3 hrs. lab. For majors only or by consent of instructor.* Fundamentals of computer applications for educational uses in music; historical and social contexts of computer development; fundamentals in computer systems; configuring hardware; survey of commercial music software; and use of software applications.

4216 Music Technology II (3) *Prereq.: MUS 4215 or equivalent. 3 hrs. lab.* Application of hardware and software unique to music applications: notation, sequencing, technological applications of digital audio, video and acoustical sound specifically applied to the music education environment.

4241 Opera Theater (2) *Admission by audition. 4 hrs. lab plus individual coaching. May be taken for a max. of 8 hrs. of credit toward the master's degree. May not be taken concurrently with MUS 9007. Students must schedule this course both fall and spring semesters, unless permission to schedule only one semester is granted by the instructor.* Techniques of the musical theater; preparation and performance of operatic scenes and complete operas.

4242 Acting for Opera (1-2) *Prereq.: permission of instructor. May be taken for a max. of 4 sem. hrs. of credit.* Techniques of acting for opera; training in audition skills, stage movement, state makeup, and vocal and dramatic techniques for operatic roles.

4351 Song Literature I (2) The art song repertoire from the classical songs of Haydn and Mozart to the Romantic period.

4352 Song Literature II (2) The art song repertoire from the French *mélodie* to contemporary English and American song.

4400 Orchestral Repertoire for Instrumentalists (1) *Prereq.: Permission of instructor. May be taken for a max. of 3 sem. hrs. of credit.* Standard orchestral excerpt repertoire for instrumentalists, including: preparation; score study and analysis; specialized practice techniques; and audition strategies. Emphasis on the performance of orchestral excerpts.

4500 Musical Theatre Production (1-3) *Also offered as THTR 4500. Admission by audition. May be taken for a max. of 4 sem. hrs. of credit toward any degree.* Techniques of

musical theatre production, including all production aspects, preparation aspects, preparation and performance of musical scenes and complete shows.

4701, 4702 Organ Practicum (2,2) *Prereq.: consent of instructor. MUS 4701 is prerequisite for 4702.* Techniques of service playing; techniques and materials of organ pedagogy.

4703 The Scientific Bases of Music (2) Musical acoustics; nature and generation of sound; computation of intervals and scales within various systems of tuning and temperament.

4710 Advanced Aural Skills (3) *Prereq.: a grade of "C" or better in MUS 3731.* Concentrated work in sight singing with a special emphasis upon skills needed for professional activity in performance, conducting and composition.

4712 Advanced Form and Analysis (3) *Prereq.: a grade of "C" or better in MUS 3732.* Complex forms and harmonic techniques of the 19th century to the present.

4718 Styles and Practices of Beethoven and the Romantics (3) *Prereq.: a grade of "C" or better in MUS 3732.* Tonality, harmony, and form in music of the Romantic period; analysis of selected literature and creative writing in the Romantic style.

4719 Styles and Practices of the Late Romantics and Transition to the Modern Era (3) *Prereq.: a grade of "C" or better in MUS 3732.* Tonality, harmony, and form from Wagner through the Impressionistic period; analysis of selected literature and creative writing in Ultra-Chromatic and Impressionistic styles.

4720 Post-Tonal Styles and Practices (3) *Prereq.: a grade of "C" or better in MUS 3732.* Study of principal currents of musical composition in the modern era; analysis of selected works and creative application of techniques, procedures, and formal schemes studied.

4721 Modal Counterpoint (3) *Prereq.: grade of "C" or better in MUS 2732 or equivalent.* Writing and analysis of contrapuntal music with modal bases.

4723 Tonal Counterpoint (3) *Prereq.: grade of "C" or better in MUS 2732 or equivalent.* Writing of counterpoint in two and three parts to a given cantus firmus; imitative contrapuntal forms such as the invention and the fugue.

4730 Elementary Orchestration (2) *Prereq.: grade of "C" or better in MUS 2732.* Traditional scoring practices.

4731 Intermediate Orchestration (2) *Prereq.: MUS 4730.* Orchestrating for full orchestra including extraordinary instruments; avant-garde orchestral practice.

4735 Jazz Arranging (2) *Prereq.: MUS 3732 or consent of instructor.* Jazz arranging styles and techniques, from Dixieland to modern jazz.

4740 Business of Music (2) Surveys of contracts, legalities, economics, and production planning as they relate to performers, teachers, and composers of music in the fields of recording, concerts, publishing, broadcasting, motion pictures, and musical theater; copyright, performance rights societies, unions, and guilds.

4745 Computer Music (3) *May be taken for a max. of 6 hrs. of credit when topics vary.* Digital sound design, sound synthesis, and signal processing; electroacoustic music composition using computers and computer music techniques.

4746 Seminar in Computer Music and Digital Media (3) *Prereq.: MUS 4745 or consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary.* Focused study of various topics in computer music and digital media such as computer music programming, sound diffusion techniques, interactive computer music and digital media systems, intermedia applications, analysis of computer music.

4747 Music, Technology, and Society (3) History and critical study of the impact of electronics and recording technologies on the creation and performance of music, and its subsequent impact on the role of music in society.

4749 Seminar in Music History (3) *Prereq.: grade of "C" or better in MUS 2053 and 2054 or equivalent or permission of instructor. May be taken for a max. of 6 sem. hrs. credit when topics vary.*

4750 Music of the Middle Ages and the Renaissance (3) *Prereq.: grade of "C" or better in MUS 2053 and 2054 or consent of instructor.* The history of music from ca. 800 to 1600.

4753 Folk and Traditional Music: Music History and Literature (2) Background and history of folk and traditional music; emphasis on Anglo-American folk songs.

4757 Piano Literature I (3) A survey of the keyboard repertoire from the late renaissance through Haydn and Mozart.

4758 Piano Literature II (3) A survey of piano literature from Beethoven to the present.

4761, 4762 The Care and Repair of Band and Orchestral Instruments (1,1) *Prereq.: MUS 2300 or equivalent. 2 hrs. lab. For students with experience in instrumental music and a practical knowledge of the problems in instrumental upkeep.*

- 4763, 4764 Piano Methods and Materials (3,3)** Materials and techniques for the piano teacher.
- 4766 Marching Band Techniques (3)** Charting techniques for marching band; emphasis on contemporary drill design; practical projects in charting drill.
- 4767 Piano Design, Construction, and the Theory of Tuning and Temperament (2)** 1 hr. lecture; 2 hrs. lab. Open only to music majors. Piano and harpsichord design, construction, regulation, voicing, and tunings; knowledge important to pianists; laboratory experience in regulation, tuning, and voicing.
- 4769, 4770 Supervised Studio Instruction (2,2)** Program tailored to needs of each student by the major applied teacher who supervised the student's studio teaching program.
- 4772 Harp Technology and Maintenance (2)** Required of all harp majors. Individual projects and study of harp history and development, design and regulation.
- 4773 Orchestral Repertoire for Harp (1)** Required of all harp majors. May be taken for a max. of 8 hrs. of credit. Independent study of major orchestral excerpts; includes audition preparation.
- 4774 Harp Pedagogy (2)** Required of all harp majors. Independent studies in materials and methods for the harp teacher.
- 4791 Introduction to Opera (3)** Open to majors and nonmajors. History, production, and performance of opera from 1600 to the present.
- 4796 Senior Project in Music Theory (2)** A written project on an approved topic in music theory. Required of all theory emphasis students in the composition curriculum.
- 4797 Senior Recital (1-3)** May be taken for a max. of 3 sem. hrs. of credit.
- 4798 Senior Composition Recital (1)** Pass-fail grading. Concert of solo and chamber works.
- 4799 Coaching in Applied Music (2)** Open to music students with the recommendation of the appropriate applied music faculty. May be repeated for credit. Max. amount of credit applicable toward a degree is 6 sem. hrs.
- 4901 Basic Techniques of Audio Recording (3)** Basic properties of audio and various forms of sound energy; analysis of complete audio systems for recording and sound reinforcement and individual system components; aspects of stereo concert recording; emphasis on microphone placement techniques; professional music production techniques, including editing and tape duplication.
- 7011 Keyboard Skills for Pianists (1)** Techniques of accompanying, including sight-reading, score reading, transposition, and harmonization.
- 7018 Advanced German Diction for Singers (1)** 1 hr. lecture; 1 hr. lab. The rules of pronunciation utilizing the International Phonetic Alphabet; coaching in the Lied and operatic literature including spoken dialogue.
- 7019 Advanced French Diction for Singers (1)** 1 hr. lecture; 1 hr. lab. The rules of pronunciation utilizing the International Phonetic Alphabet; coaching in the French art song and operatic literature.
- 7020 Advanced Italian Diction for Singers (1)** 1 hr. lecture; 1 hr. lab. The rules of pronunciation utilizing the International Phonetic Alphabet; coaching in operatic and song literature; some outside research expected.
- 7124 Seminar in String Literature (2)** Methods, solos, and chamber music for strings.
- 7126, 7127 Seminar in Woodwind Literature I, II (2,2)** Methods, solos, and ensemble literature for woodwinds.
- 7128 Seminar in Brass Literature (3)** Methods, solos, and ensemble literature for brass instruments.
- 7130 Seminar in Percussion Literature (2)** Methods, solos, and ensemble literature for percussion instruments.
- 7160 Survey of Jazz Styles (3)** In-depth investigation of the American Jazz idiom from the perspective of historical jazz periods and specific artists.
- 7170 Advanced Vocal Pedagogy (2)** Fundamentals of anatomy, physiology, and acoustics of voice production; emphasis on vocal registers, breath management, and articulation; pedagogical philosophies used to train the classical singing voice in the Western tradition of art song and opera.
- 7172 Stringed Instrument Pedagogy (2)** Methods and materials for instruction in string instruments.
- 7173 Woodwind Instrument Pedagogy (2)** May be taken for a max. of 2 hrs. of credit for the MM and 2 hrs. of credit for the DMA or PhD. Independent studies in the methods and materials for instruction in woodwind instruments.
- 7174 Brass Instrument Pedagogy (2)** Methods and materials for instruction in brass instruments.
- 7175 Percussion Instrument Pedagogy (2)** Methods and materials for instruction in percussion instruments.
- 7176 Jazz Pedagogy (3)** Pedagogical issues in jazz idiom including effective jazz ensemble directing, selection of appropriate repertoire, improvisational performance practices, effective jazz practice habits, and concepts designed to foster creativity.
- 7217 Music Technology III (3)** Prereq.: MUS 4215, 4216 or equivalent. Production of technological products for music education; theoretical foundations and research; implementation and evaluation of products in an educational setting.
- 7221 Solo Literature for the Voice (3)** Prereq.: MUS 4351 and 4352; or equivalent. Solo vocal literature in German and French; emphasis on styles of performance.
- 7222 Solo Literature for the Voice (3)** Prereq.: MUS 4351 and 4352; or equivalent. Solo vocal literature by English, American, Italian, Scandinavian, Eastern European, Russian, Spanish, and Latin American composers; emphasis on styles of performance.
- 7270 Historical Perspectives of Voice (3)** Development of vocal technique and pedagogical thought from the late 17th century to the present; definition of the *bel canto* style; historical schools of vocal training; examination of historical writings by Tosi, Mancini, Garcia, Marchesi, Vennard, and other individuals of primary historical emence.
- 7271 Principles of Voice Production (3)** Prereq.: COMD 4250 and 4153. Anatomy and physiology of the respiratory, phonatory, and articulatory systems used in the production of the human voice; theories of phonation; acoustics of the vocal tract; laryngeal biomechanics; control of fundamental frequency and loudness; study of life-span changes of the voice and care of the human voice.
- 7272 Comparative Vocal Pedagogy (2)** Prereq.: MUS 7170 or equivalent. Techniques for teaching collegiate level applied voice; studio structure and management.
- 7500 Advanced Teaching Practicum (1-2)** Prereq.: MUS 4769 and 4770; or equivalent. May be repeated for credit. A total of 3 sem. hrs. is applicable to the MM degree. Supervised teaching internship of instrumental and/or vocal instruction in private and/or group settings.
- 7501 Piano Pedagogy and Literature I (2)** Prereq.: MUS 4763 and 4764; or equivalent. Piano methods and literature at the elementary and intermediate levels.
- 7502 Piano Pedagogy and Literature II (2)** Prereq.: MUS 4763 and 4764; or equivalent. Piano methods and literature at the intermediate and advanced levels.
- 7521 Instrumental Accompanying (2)** May be repeated for a max. of 4 sem. hrs. of credit. Repertoire and techniques of accompanying for instrumental genres.
- 7522 Vocal Accompanying (2)** May be repeated for a max. of 4 sem. hrs. of credit. Repertoire and techniques of accompanying for vocal genres.
- 7570 College Teaching in Music (3)** History of music in higher education; current issues, problems, and techniques of college teaching in music; development of effective college-level teaching skills.
- 7600 Sources of Music Study & Research (3)** Also offered as LIS 7810. Focuses on finding, evaluating, using, and citing materials in print, online, and recorded sources for music research.
- 7700 Survey of Analytical Techniques (3)** Prereq.: MUS 3703 and 3704 or passing of the Music Theory Diagnostic Examination. Survey of analytical tools and concepts for common practice and post-tonal practice.
- 7701 Pedagogy of Music Theory (3)** Prereq.: MUS 3703 and 3704 or successful passing of the Music Theory Diagnostic Examination. Techniques for teaching undergraduate music theory and aural skills courses; comparisons of principal philosophies and textbooks.
- 7703 Contemporary Musical Practices (3)** 6 sem. hrs. applicable to the MM degree when topics vary; 6 additional sem. hrs. applicable to the DMA degree when topics vary. Compositional trends in contemporary music; discussion of books on composition; analysis of major compositions.
- 7704 Studies in Schenkerian Analysis (3)** Prereq.: MUS 3703 and 3704 or successful passing of the Music Theory Diagnostic Examination. May be taken for a max. of 6 sem. hrs. of credit; 3 sem. hrs. applicable to MM degree; 3 additional hrs. applicable to PhD or DMA degrees. Ideas and practices of tonal theorist Heinrich Schenker; their effect on musical thought and performance in this century.
- 7710 Theory and Analysis of Tonal Music (3)** Prereq.: MUS 3703 and 3704 or successful passing of the Music Theory Diagnostic Examination. Readings and practice in various approaches to the analysis of music of the tonal era (ca. 1600-1900).
- 7711 Seminar in Post-Tonal Musical Analysis (3)** Prereq.: MUS 3703 and 3704 or successful passing of the Music Theory Diagnostic Examination. May be taken for a max. of 6 hrs. of credit when topics vary. Analytical study of specific composers, works, or styles.
- 7712 Advanced Modal Counterpoint (3)** Prereq.: MUS 3703 and 3704 or successful passing of the Music Theory Diagnostic Examination. Writing exercises and composing works in two, three, and more voices in the style of Palestrina, Lassus, Victoria, and their contemporaries; analysis of representative compositions; survey of theoretical treatises of the time.
- 7714 Advanced Tonal Counterpoint (3)** Prereq.: MUS 3703 and 3704 or successful passing of the Music Theory Diagnostic Examination. Writing exercises and composing works in three, four, and more voices in the style of J. S. Bach and his contemporaries; analysis of representative compositions; survey of contemporary theoretical treatises.
- 7721 Survey of Choral Literature I (3)** A survey of choral literature beginning with Gregorian Chant and ending with the Baroque period of music, with emphasis on preparation for performance.
- 7722 Survey of Choral Literature II (3)** A survey of choral literature beginning with the Classical period and ending with contemporary music for chorus, with emphasis on preparation for performance.
- 7723 Survey of Wind Literature I (2)** A survey of chamber wind literature (6 to 20 performers) from the late Renaissance to the present.
- 7724 Survey of Wind Literature II (2)** A survey of orchestra, large wind ensemble, and large wind band literature (more than 20 performers) from the French Revolution to the present.
- 7725 Survey of Symphonic Literature I (2)** A survey of orchestral works beginning with the Baroque period of music and ending with the early Romantic; emphasis on preparation for performance.
- 7726 Survey of Symphonic Literature II (2)** A survey of orchestral works beginning with the Romantic period and ending with 20th century music for orchestra, with emphasis on preparation for performance.
- 7741 History of Music Theory I (3)** Prereq.: MUS 3703, 3704, and 3710 or successful passing of the Music Theory and Music History Diagnostic Examinations. History of technical writings on music, ca. 500-1600; acoustics, notes, and scales, intervals, tuning systems, modes, counterpoint, mensuration, musical poetics, speculative theory.
- 7742 History of Music Theory II (3)** Prereq.: MUS 3703, 3704, and 3710 or successful passing of the Music Theory and Music History Diagnostic Examinations. Music theory from ca. 1600 to 1900; development of species counterpoint and figured bass theory; the rise of harmonic theory and rhythmic/phrase analysis; 19th-century expansions of harmonic theory and formal analysis.
- 7745 Advanced Computer Music (3)** Prereq.: MUS 4745, or consent of instructor. Advanced techniques in digital sound synthesis and composition; analysis/resynthesis techniques, granular synthesis, physical modeling, interactive computer music performance, and algorithmic composition using computers; survey of representative music from the genre.
- 7746 Graduate Seminar in Experimental Music and Digital Media (3)** Prereq.: MUS 7745 or consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary. Focused study of various topics in experimental music and digital media such as development of new computer music systems, interactive computer music, multimedia composition, alternative human-computer interfaces for music, experimental music performance, sound installations, and advanced analysis of computer music.
- 7747 History of Electroacoustic Music (3)** The history of electroacoustic music; developments in technology, aesthetics, and style since ca. 1900 to present; survey and analysis of representative music from the genre.
- 7749, 7750 Special Studies in Piano Literature (3,3)** Each course may be taken for a max. of 6 hrs. of credit when topics vary. Total amount of credit applicable to MM degree limited by student's advisory committee. Works of certain composers for the keyboard, such as selected concertos.
- 7751 Ancient and Medieval Music (3)** Prereq.: MUS 3710 or successful passing of the Music History Diagnostic Examination. History of music from ancient Greeks and Hebrews through the 14th century.
- 7752 Music of the Renaissance (3)** Prereq.: MUS 3710 or successful passing of the Music History Diagnostic Examination. Music of the 15th and 16th centuries.
- 7753 Music in the Baroque Era (3)** Prereq.: MUS 3710 or successful passing of the Music History Diagnostic Examination.
- 7754 Music in the Classical Era (3)** Prereq.: MUS 3710 or successful passing of the Music History Diagnostic Examination.
- 7755 Music in the Romantic Era (3)** Prereq.: MUS 3710 or successful passing of the Music History Diagnostic Examination.
- 7756 Music in the Modern Era (3)** Prereq.: MUS 3710 or successful passing of the Music History Diagnostic Examination.
- 7757 American Music (3)** Prereq.: MUS 3710 or successful passing of the Music History Diagnostic Examination. The most important phases in development of music in the U.S.

7760 Performance Practices (3) Prereq.: MUS 3710 or successful passing of the Music History Diagnostic Examination. Primary and secondary source materials dealing with the performance of music in the 17th and 18th centuries; their application to the interpretation of music.

7762 Measurement and Evaluation in Music (3) Teacher-designed and standardized tests in music; learning theories.

7763, 7764 Comparative Methods in Music Education (3,3) Techniques in teaching music; functional projects; approaches and texts evaluated with emphasis on curriculum construction; 7763 deals with elementary grades, 7764 with secondary.

7765 Philosophical Bases for Music Education (3) Various philosophical bases for music education including their origin, function, development, and implementation.

7766 Current Issues in Music Education (3) Develop broad perspectives from a multi-faceted review of issues affecting music education practice. Examine important contexts from which effective teachers make informed decisions.

7767 Experimental Research in Music (3) Prereq.: ELRC 4006 and MUS 7905. Primarily for doctoral students in music. Systematic investigation of musical behavior and music learning; collection, quantification, and treatment of data; current research.

7771, 7772 Advanced Choral Conducting (3,3) Prereq.: previous study of conducting. Each course may be taken once for the MM and once for the DMA or PhD. Independent study of the techniques required to conduct all styles of choral music with emphasis on score analysis and performance practices.

7773, 7774 Advanced Band Conducting (3,3) Prereq.: previous study of conducting. Each course may be taken once for the MM and once for the DMA or PhD. Independent study of the techniques required to conduct all styles of wind music with emphasis on score analysis and performance function.

7775, 7776 Advanced Orchestral Conducting (3,3) Prereq.: previous study of conducting. Each course may be taken once for the MM and once for the DMA or PhD. Independent study of the techniques required to conduct all styles of symphonic music, with emphasis on score analysis and performance practices.

7777, 7778 Advanced Keyboard Literature I, II (3,3) Prereq.: MUS 4757, 4758; or equivalent. Each course may be taken twice; once for the MM and once for the DMA. Genres and styles from earliest examples of keyboard literature through the most recent trends.

7797 Master's Pedagogy Project (2) Pass-fail grading. Completion of a 45-minute oral presentation and short supporting paper on a pedagogical topic.

7798 Master's Recital (1-3) Prereq.: MUS 4797 or equivalent. May be taken for a max. of 3 sem. hrs. of credit.

7799 Advanced Coaching in Applied Music (2) May be repeated for credit. Max. amount of credit applicable toward a degree is 4 sem. hrs.

7800 Introduction to Research in Music (3) Required of all doctoral students; recommended for master's students who will write theses. Development of music research skills including knowledge of research resources and materials; use of library facilities; practice in a clear and logical writing style; and use of wide variety of methodologies and modes of inquiry.

7801 Psychology of Music (3) Physical and psychological bases of musical phenomena including physical properties of sound production, transmission, reception, and perception; affective, physiological, and cognitive responses to musical stimuli; and learning theories as related to musical development, ability, and preference.

7901 Composition (1-3) Individual instruction for graduate composition. Participation in the Composer's Forum is considered part of the course work and is, therefore, required. May be repeated for credit.

7903, 7904 Seminar in Music History (2-3,2-3) Prereq.: MUS 3710 or successful passing of the Music History Diagnostic Examination. Each course may be taken 3 times for credit when topics vary. Only 6 sem. hrs. applicable to the MM degree; only 12 additional sem. hrs. applicable to the PhD; maximum for MM and PhD combined is 18 sem. hrs.

7905, 7906 Seminar in Music Education (2-6,2-6) Each course may be taken 3 times for credit when topics vary. Only 6 sem. hrs. applicable to the MMed degree; only 12 additional sem. hrs. applicable to the PhD; maximum for MMed and PhD combined is 18 sem. hrs.

7921 Seminar in Music Theory (3) Prereq.: MUS 3703 and 3704 or successful passing of the Music Theory Diagnostic Examination. May be taken for a max. of 6 sem. hrs. of credit applicable to the MM degree when topics vary and only 12 additional sem. hrs. of credit applicable to the PhD when topics vary. Maximum for MM and PhD combined is 18 sem. hrs. of credit.

7928, 7929 Seminar in Choral Repertoire (3) Each course may be taken 3 times for credit when topics vary. Only 6 sem. hrs. applicable to the MM degree; only 12 additional sem.

hrs. applicable to the DMA; maximum for MM and DMA combined is 18 sem. hrs.

7997 Individual Projects in Music (1-3) Prereq.: consent of departmental faculty concerned and dean of the School of Music. May be repeated for credit as follows: for master's degree, 3 sem. hrs.; for doctoral degree, 6 sem. hrs. beyond the master's or a total of 9 sem. hrs. if both master's and doctoral totals included.

7998 Special Topics in Music (2-3) May be taken for a max. of 9 hrs. of credit when topics vary. Advanced studies in individual subject areas of music.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

9001 Doctoral Solo Recital (1-3) May be repeated twice (max. of 6 sem. hrs. of credit). Students specializing in organ may repeat four times (max. of 12 sem. hrs. of credit).

9002 Second Doctoral Solo Recital (1-3)

9003 Doctoral Lecture Recital (1-3) Does not fulfill final project requirement for DMA (MUS 9010).

9005 Concerto with Orchestra (1-2)

9006 Major Solo Part in an Oratorio or a Cantata (1)

9007 Doctor of Musical Arts Role in Opera (1-3) May not be taken concurrently with MUS 4241. May be repeated for credit. A max. of 4 hrs. of credit may be applied toward the DMA degree.

9008 Doctor of Musical Arts Chamber Music Recital (2) May be repeated for credit.

9009 Research and Monograph (1-12) S/U grading. For DMA candidates in performance only. May be repeated until monograph is completed.

9010 Lecture Recital with Written Document (1-9) May be repeated. Pass-fail grading. Research, preparation, and presentation of a lecture recital and corollary written document.

9021 Seminar in Music Theory (3) For doctoral candidates only. May be taken for a max. of 6 hrs. of degree credit.

9758, 9759 Repertoire (3,3) Each course may be taken for a max. of 9 hrs. of credit; however, amount of credit applicable to a degree is determined by student's advisory committee.

9901 Doctoral Seminar in Musical Composition (1-3) May be repeated for credit; max. amount of credit applicable to a degree is 12 sem. hrs. Participation in the Composer's Forum is part of course work.

9925 to 9937 (Series) Seminar in Literature and Style in Performance (3 each) Historical developments of the various performance areas with concentration on their literature, important pedagogical principles, and stylistic problems related to each medium. To be given as follows:

9925, 9926 Voice
9929, 9930 Organ
9931, 9932 Strings
9935, 9936 Brass
9937 Percussion

MUSIC EDUCATION • MUED

1000 Foundations of Music Education (3) Credit will not be given for both this course and EDCI 1000. 2 hrs. lecture; 1 hr. lab. Course is for music majors only. Field observations in music at the elementary and secondary levels; historical and philosophical foundations, introduction to instructional strategies, professional organizations, legal aspects, and national standards of music education.

1700 Orientation to Music Education (1) Course may be repeated for a max. of 2 sem. hrs. of credit. An overview of the music education profession; orientation to collegiate music study; and initial field experiences in the schools.

2045 Teaching Music in Diverse Settings (3) Prereq.: MUED 1000. Credit will not be given for both this course and EDCI 2045. Site-based teaching practica. 2 hrs. lecture; 2 hr. teaching practicum each week. Managerial aspects of instruction; application of research in music teaching and learning principles to the classroom and rehearsal setting.

3170 Principles of Teaching Elementary School Music (3) Prereq.: MUED 1000 and MUED 2045. Materials, methods, and current trends in music teaching at the elementary level; curriculum development.

3171 Principles of Teaching Secondary School Music (3) Prereq.: MUED 1000 and MUED 2045. Materials, methods, and current trends in music teaching at the secondary level; rehearsal techniques.

3630 Student Teaching in Music (9) Prereq.: see "Requirements for Student Teaching" in the School of Music section of this catalog. 1 hr. lecture; 30 hrs. lab. Pass-fail grading.

NUCLEAR SCIENCE • NS

3411 Fundamentals of Nuclear Radiation Science (3) F,S Prereq.: one sem. of MATH 1021 or equivalent and one sem. of chemistry or physics; 2 hrs. lecture; 3 hrs. lab. Nuclear

structure, transmutations, decay, interactions of radiation with matter; radiation detection and measurement.

4141 Radioecology (3) F Prereq.: NS 4101 or equivalent. 2 hrs. lecture; 3 hrs. lab. Also offered as ENV 4141. Radio tracers, stable tracers, and radiation effects in both natural and laboratory-contained communities of organisms.

4352 Environmental Radiological Evaluation and Remediation (2) S Prereq.: NS 3411 or permission of instructor. Methods of surveying and sampling to determine radiological concentrations; federal and state regulations governing remediation criteria; models and computer codes used to estimate dose; remediation planning and implementation.

4353 Environmental Radiological Evaluation and Remediation Laboratory (1) S Prereq.: credit for or concurrent enrollment in NS 4352. Laboratory supplement to NS 4352. Sampling and analytical techniques used to measure radionuclides in the environment.

4527 Nuclear Reactor Theory and Design (3) F,S Prereq.: two semesters of physics and an introductory course in computer programming. Characteristics of radioactive materials, neutron interactions, the fission process; static criticality, time-dependent behavior of cores, and design of nuclear power reactors.

4566 Nuclear Reactor Systems (3) F Prereq.: NS 4527 or equivalent. Engineering aspects of reactor systems; nuclear fuel cycles, isotope separation, mechanical and thermal design, selection of materials, and environmental impact of nuclear facilities.

4570 Nuclear Facility Safety (3) S Prereq.: PHYS 2102 or equivalent. Safety analysis of facilities that utilize radiation sources including hospitals and industrial sites; accident sequences; dispersal of radionuclides; estimation of dose and dose commitments; and engineered safeguards.

7115 N-15 Stable Tracer Methodology for Biological Sciences (2) S-E Prereq.: consent of instructor. 1 hr. lecture; 3 hrs. lab. Quantitative N-15 tracer applications and methodology in biological nitrogen systems, combining N-15 procedures with mass spectrometer techniques.

7520 Nuclear Reactor Materials (3) V Principles governing structure and properties of materials used in nuclear reactors; radiation effects, problems in selection, fabrication, and use of these materials.

7525 Nuclear Engineering Laboratory (2) S Prereq.: credit or registration in NS 7527. 6 hrs. lab. Operation of nuclear counting and spectroscopy systems; measurements of neutron behavior in multiplying and non-multiplying media; development of design parameters from empirical data.

7527, 7528 Reactor Engineering (3,3) F,S Prereq.: consent of department. NS 7527 is prerequisite for 7528. Basic concepts of reactor physics; slowing-down theory, homogeneous and heterogeneous reactors; diffusion and transport theories for neutron flux calculations; criticality calculations: one-group, two-group, and multigroup methods; core burn up analysis.

7529 Nuclear Reactor Dynamics (3) S Prereq.: NS 7527 and credit for or registration in NS 7528. Transient reactor analysis; analytical and numerical point kinetics calculations; perturbation theory expressions for reactivity; feedback effects; reactor transfer functions and stability; coupled neutronics and thermal hydraulic transients; space-time kinetics.

7555 Nuclear Reactor Analysis (3) S Prereq.: MATH 4038 or 4340 and NS 7527; or equivalent. Numerical methods and solutions to multigroup neutron diffusion and transport equations; lattice physics methods; nodal techniques; applications to fuel management and light water reactor core physics analysis; calculation of temperature coefficients; advanced reactor systems.

7566, 7567 Advanced Nuclear Reactor Systems (3,3) F,S Prereq.: NS 4527 or equivalent. Engineering aspects of fission reactor systems, including fuel behavior, energy removal, materials selection, and core interface with the balance of the plant.

7575 Two-Phase Flow and Heat Transfer (3) Prereq.: ME 4433 or equivalent. Modeling and analysis of liquid-vapor flow systems and applications in nuclear reactor design and safety; nucleation phenomena; boiling heat transfer, burnout, condensation; flow instabilities, critical flow, loss of coolant accidents.

OCEANOGRAPHY AND COASTAL SCIENCES • OCS

General education courses are marked with stars (★).

★ **1005 Introduction to Oceanography (3)** An honors course, OCS 1006, is also available. The world's oceans, their origin and evolution; interactions between physical, geological, chemical, and biological processes in the marine environment; use and abuse of oceans.

★ **1006 HONORS: Introduction to Oceanography (3)**

Similar to OCS 1005 with special honors emphasis for qualified students. Interaction of physical, geological, chemical, and biological processes of the ocean; effect of human activities.

2008 Introduction to Marine Sciences: Life Processes (4) S 3 hrs. lecture; 3 hrs. lab. Does not satisfy major field course requirement for students in natural science curricula. Also offered as BIOL 208 at Southern University in Baton Rouge. Life and environmental processes in marine and aquatic settings; their influence on coastal Louisiana.

2009 Introduction to Marine Sciences: Geological and Physical (4) 3 hrs. lecture; 1 hr. lab. Does not satisfy major field requirements for students in natural sciences curriculum. Geological and physical processes in marine and aquatic environments; their influence on coastal Louisiana.

2010 Introduction to Waves and Beaches (3) Introduction to the physical and geological coastal oceanographic processes that shape the coastal zone; various coastal environment types; and coastal processes and human interaction with these environments.

2095 Introduction to Marine Sciences (4) Su only Prereq.: introductory science course. Four weeks at Louisiana Universities Marine Consortium coastal laboratories. Physical, chemical, geological, and biological processes in the oceans and coastal environments and their interactions; interrelationships of man and the marine environment.

3103 Global Environmental Cycles (3) Prereq.: CHEM 1201 and MATH 1550; credit or registration in BIOL 1201. Major hydrologic and elemental cycles on the planet, global change and processes, energy balance, including problems associated with climate, pollution, population, and resources.

3200 Hurricanes and Typhoons (3) Comprehensive introduction to hurricanes as a multi-faceted phenomenon; hurricane meteorology and climate variability, oceanographic response and coastal impacts, storm deposition, ecological effects, geological and historical records, and societal impacts and response.

4001 Special Topics in Oceanography and Coastal Sciences (1-6) V May be taken for a max. of 9 sem. hrs. of credit when topics vary.

4005 Special Field Topics in Oceanography and Coastal Sciences (1-6) Su only May be taken for a max. of 9 sem. hrs. of credit when topics vary. Variable number of weeks at Louisiana Universities' Marine Consortium (LUMCON) or Gulf Coast Research Laboratory (GCRL).

4010 Marine Science for Teachers (4) Su only Four-week short course offered at various locations by Louisiana Universities Marine Consortium. Credit not applicable to a degree in marine sciences. Survey of the marine sciences; secondary and elementary school levels.

4012 Biology of Marine Vertebrates (3) Prereq.: 8 sem. hrs. of introductory zoology or biology with laboratory. Evolution, life history, ecology, and management of marine fishes, reptiles, birds, and mammals.

4015 Oceans to Estuaries I: Geology and Physics (5) F Prereq.: Two semester introductory courses in physics and geology, MATH 1550 and 1552. Major geological and physical processes and products within the world's oceans, including the open ocean, continental margins, estuaries, and intertidal areas.

4016 Oceans to Estuaries II: Chemistry and Biology (5) S Prereq.: CHEM 1201 and 1202, BIOL 1201 and 1202, MATH 1550 and 1552. Major chemical and biological processes within the world's oceans, including the open ocean, continental margins, estuaries, and intertidal marshes.

4021 Weather Analysis and Satellite Meteorology (3) F Diagnostic studies of surface and upper-air observational data using isoplething charts and satellite images to represent the state of the atmosphere over both land and sea; the use of satellite technology in weather forecasting including cloud identification, wind direction, storm development, and air quality.

4024 Coastal Morphodynamics (3) Prereq.: MATH 1021, 1022, or 1023. Also offered as GEOG 4024. Basic morphodynamic processes operative along coasts; emphasis on modern coastal process response systems.

4030 Techniques of Research Presentation (1) F,S Pass-fail grading. May be taken for a max. of 2 hrs. of credit when topics vary. Guidelines for effective scientific seminar presentations.

4040 Environmental Pollution Transport Processes (3) Prereq.: CHEM 1201, MATH 1550, and PHYS 2001. Application of fluid-earth physical principles to characterize pollutant dispersion and transport processes in atmospheric, oceanic, and terrestrial environments, particularly across the coastal zone.

4041 Salt Marsh Ecology (4) Su only Prereq.: general plant biology and 10 semester hours of biology. Four weeks at Gulf Coast Research Laboratory, Ocean Springs, Mississippi. Botanical aspects of local marshes; plant identification, composition, structure, distribution, and development of coastal marshes; biological and physical interrelationships;

primary productivity and relation of marshes to estuaries and associated fauna.

4052 Phycology (4) Prereq.: BIOL 1202 and 1209. 2 hrs. lecture; 4 hrs. lab. See BIOL 4052.

4090 Marine and Environmental Microbiology (3) F-O Prereq.: BIOL 2051 or equivalent. Also offered as BIOL 4090. Characterization and ecology of estuarine, open-ocean, and terrestrial microorganisms and the role these microbes play in cycling organic and inorganic compounds; microbial activity in biogeochemical cycles extreme environments and organic pollutants; indicator species; pathogenic bacteria and their transmission in the environment and seafood-related contamination.

4095 Marine Field Ecology (4) Su only Prereq.: general biology, invertebrate or vertebrate zoology, introductory chemistry, and consent of instructor. Five weeks at Louisiana Universities Marine Consortium coastal laboratory.

Relationships of marine and estuarine organisms to environmental factors; interactions among organisms; ecological processes of energy and materials flow; field studies of communities and ecosystems of the Louisiana coastal zone.

4126 Chemical Oceanography (3) S See GEOL 4081.

4128 Wetland Hydrology and Hydrodynamics (3) F Prereq.: MATH 1550, 1552, GEOL 1001 or equivalent. Basic surface water and ground water hydrology in wetland environments with an emphasis on hydrologic principles, application of hydrologic techniques to wetlands, and understanding of hydrodynamics in these ecosystems.

4164 Deltaic Processes and Products (3) Prereq.: consent of instructor. River delta formation and associated sedimentary processes with special emphasis on the Mississippi River delta and adjoining coastal, shelf-edge, and slope regions; comparisons of the Mississippi delta with other modern deltas.

4165 Environmental Chemistry of Wetlands (3) F,O Prereq.: CHEM 2060 or equivalent. Transformations of pollutants and toxic substances that affect the solubility, bioavailability, fixation, and degradation of organic and inorganic substances in wetlands; emphasis on biological and physicochemical properties of wetlands that enhance this degradation and fixation.

4166 Wetland Delineation and Functional Assessment (3) F,O Prereq.: one semester course in soils, biology or ecology or consent of instructor; 2 hrs. lecture; 3 hrs. lab. Delineation of jurisdictional wetlands covering wetland soil chemistry, soil taxonomy, hydric soil indicators, hydrophytic plant communities, wetland hydrology; use and interpretation of federal and state wetland delineation procedures; field measurement techniques; wetland functions; functional assessment methodologies in wetland evaluation and mitigation.

4170 Physical Oceanography (3) S Prereq.: CE 2200 and graduate standing or consent of instructor. Physics of the ocean; with emphasis on dynamical problems; physical properties of sea water, marine instrumentation, flow dynamics in the earth's rotating coordinate system, water waves, general circulation.

4210 Geological Oceanography (3) F Prereq.: two-semester introductory course in geology. Principles of marine geology; sediments and sedimentation in the marine environment from the near shore zone to the abyssal plain; geological effects of bottom currents; sea-level history; geophysical techniques; continental drift and sea-floor spreading; tectonic history of the oceanic crust.

4308 Plants in Coastal Environments (3) V Prereq.: one-semester course in biology or ecology; or consent of instructor. 3 hrs. lecture; weekend field trips as needed. Also offered as BIOL 4308. Ecology of Louisiana's major coastal plant communities; emphasis on influence of environmental factors controlling plant distribution and productivity; physiological, morphological, and anatomical mechanisms aiding plant survival; man's impact on Louisiana's coastal plant communities.

4372 Estuarine Ecology (4) F Prereq.: graduate standing or consent of instructor. 3 hrs. lecture; 2 hrs. lab. Preparation of field trips; synthesis and presentation of data collected on field trips to coastal areas. Ecological processes in estuaries, shallow coastal waters, and associated coastal environments; training and field use of equipment required for estuarine research.

4410 Ecosystem Modeling and Analysis (3) F Prereq.: MATH 1552 and knowledge of a programming language. Mathematical description and analysis of ecological systems; emphasis on systems approach using matter and energy flow models for quantifying and analyzing interdependence and dynamics in ecosystems; linear flow models, dynamic nonlinear models, optimization models, stochastic models, and computer techniques for modeling, validation, sensitivity analysis, and parameter optimization.

4465 Coastal Zone Management (3) S-O Nonlaw students encouraged to participate. Written and oral presentation required; special projects relating to the primary field of interest permitted. Resources allocation and environmental

quality issues in coastal and estuarine zones of the U.S.; evaluating alternative solutions to topical coastal zone issues; preparing legal devices for meeting the issues, such as legislation, regulations, contract provisions, and deed restrictions; traditional law courses in water law, environmental law, natural-resources law, and land-use planning.

4500 Fisheries Acoustics (3) Prereq.: 8 sem. hrs. of introductory biology or zoology with laboratory; 6 sem. hrs. of physics. 1 hr. lecture; 6 hrs. lab and field work. Theory and application of acoustics in the study and assessment of living marine resources.

4550 Biological Oceanography (3) S-O Prereq.: two-course undergraduate science sequence above 2000 level, or graduate student status in science department. Participation in oceanographic cruise is generally required. Biology of open oceans, continental shelves, and large river deltas.

4560 Wetland Loss, Restoration, and Management (3) Prereq.: two-course sequence in science above the 2000 level. Participation in field trips to local wetlands and management agencies is required. Coastal wetland loss, restoration, and management; wetland values, use, and potential management issues.

4600 Global Environmental Change: Past, Present, and Future (3) Also offered as ENV 4600. Patterns and processes of global climate changes during the Quaternary and their links to the biosphere, cryosphere, and ocean; proxies and archives; climate forcing and biotic responses; current warming and future impacts; human ecology of climate change; energy supply and human health; sustainability and policy.

4666 Coastal Field Geology (4) Su only See GEOL 4666.

7001 Advanced Topics in Marine Sciences (1-6) V May be taken for a max. of 9 sem. hrs. when topics vary.

7010 The Concepts of the Ecosystem (3) S-O Prereq.: one-semester course in ecology or consent of instructor. Structure, function, diversity, and succession of ecosystems viewed as a whole and as applied to major biomes.

7020 Marine Microbial Ecology (3) S-O Prereq.: one-semester course in microbiology and consent of instructor. Also offered as BIOL 7022. Microbial ecosystems and population dynamics; response of marine microorganisms to physicochemical factors and environmental alterations; microbial interactions; nutrient regeneration processes; nutritional requirements and micro-environments; modeling and systems analysis in marine microbial ecology.

7028 Numerical Modeling of Ocean Circulation (3) V Prereq.: OCS 4170 and ME 4563 or equivalent. Numerical modeling of ocean dynamics; numerical methods; parameterization schemes; review of state-of-art models.

7110 Toxicology of Aquatic Environments (3) See ENV 7110.

7112 Concepts in Marine Ecotoxicology (3) Prereq.: ENV 7100 and 7110. See ENV 7112.

7120 Dynamical Oceanography (3) Prereq.: consent of instructor. Dynamics of rotating, stratified, incompressible fluids with particular application to the oceans; conservation equations and boundary conditions, surface and internal gravity waves, vorticity, geostrophic adjustment, coastal trapped waves, Rossby waves, wind-driven ocean circulation.

7121 Ecology and Management of Tropical Estuaries (3) Su Prereq.: 6 hrs. in marine ecology and consent of instructor. Two-week field trip/lecture at the Centro de Investigaciones y Estudios Avanzados in Merida, Mexico. 20 hrs. per week. Intensive field course concerning aspects of ecology and management of tropical estuaries; plankton systems, sea grasses, mangroves, benthos, nekton, and macroalgae; emphasis on human impact and management, global change issues, and use of modeling.

7122 Gravity Waves in Shallow Water (3) V Prereq.: MATH 1550, 1552; PHYS 2101, 2102. Linear and nonlinear theories of water gravity waves considered by classical mathematical derivation and numerical methods; wave transformation in shallow water; characteristics of boundary layer under wave action; wave-related phenomena in near shore zone.

7123 Oceanographic Data Analysis (3,3) F,S Prereq.: MATH 1550 and EXST 2055 or equivalent. Statistical techniques for analysis of oceanographic time and space series data; spectrum analysis; objective analysis; empirical orthogonal functions and Kalman filters.

7124 Applied Coastal Plant Ecology (3) S Prereq.: 6 sem. hrs. in biology or environmental science. Field trips included. Students are responsible for paying for travel expenses associated with the course. Concepts of applied coastal plant ecology; field experiences in coastal habitat restoration and management; applied wetlands' functions, wet-land classification, evaluation and delineation; and environmental assessment monitoring.

7125 Estuarine Dynamics (3) V Prereq.: consent of instructor. Wind-driven and mass-driven currents in

estuaries, turbulence and mixing in estuaries, seiches, storm surges, internal waves, salt balance, and inlet flows.

7126 Circulation and Mixing in Coastal Waters (3) V Prereq.: OCS 4170. Mechanics of circulation in coastal currents; buoyancy driving, wind driving, coastal jets, long shore pressure gradients; physical conditions controlling hypoxia; classification of coastal currents; mixing and dispersion of pollutants and oil slicks for environmental management.

7127 Dynamics and Sedimentary Response Features of Coastal Environments (3) Su-O Interactions between major dynamical forcing mechanisms and sedimentary-geomorphic responses in major types of coastal environments (deltas, sandy coasts, and coral reef coasts); variability of physical processes and corresponding response features.

7129 Global Climate Change and Wetlands (2) Prereq.: consent of instructor. Impact of projected global climate change on stability and functioning of coastal and interior wetland ecosystems; feedback of biogeochemical changes in wetlands caused by climate change.

7130 Marine Isotope Biogeochemistry (3) (F) Prereq.: graduate standing or consent of instructor. Concepts and laboratory principles for stable and radioactive isotopes, first-hand experience interpreting isotopic data, modern applications in oceanography and biogeochemistry.

7131 Marine Geochemistry (3) S Geochemical processes in the marine environment, including water column geochemistry, pore water processes and interactions across the sediment-water interface, and early diagenesis; emphasis uranium-thorium decay series radionuclide applications in marine geochemistry.

7132 Coastal Physical/Chemical Systems: Analytical Methods (3) F-O Prereq.: consent of instructor. 2 hrs. lecture; 3 hrs. lab. Sampling techniques; proper handling and preservation of samples; sample processing for analysis; application of spectroscopy and chromatography analytical instrumentation for the determination on nutrients, trace and toxic metals, synthetic organics (pesticides and industrial organics), and petroleum hydrocarbons in water, soil, and sediment samples; techniques presented in terms of application of analytical chemistry to environmental and natural systems.

7165 Biogeochemistry of Wetland Soils and Sediments (3) S-O Same as AGRO 7165. Microbial and redox chemistry processes in fresh water, brackish water, and estuarine-flooded soils and sediments affecting the transformations of nutrients and toxic materials.

7170 Satellite Oceanography (3) F Prereq.: OCS 4170 or equivalent. Oceanographic measurements and observations using satellite-borne sensor systems; radiation-ocean-atmosphere interactions, satellite systems, sensor design, and data types; analysis of infrared, visible, and microwave data for deep ocean, coastal, and estuarine phenomena.

7311 Marine and Estuarine Plankton (3) S-E Prereq.: background in ecology, invertebrate zoology, limnology, or phycoecology; and consent of instructor. Structure and function of marine plankton populations; changes related to various environmental factors such as temperature, nutrients, radiation, transparency, currents, and water-masses; phytoplankton, zooplankton and ichthyoplankton food webs, trophic dynamics and case studies; life history, and biodemographic features; sampling theory, collecting techniques, distribution, abundances, production, analytical models, and economic significance.

7317 Marine Ecology (3) V See BIOL 7120.

7320 Fisheries Oceanography (3) Also offered as RNR 7320. Relationships between marine fish abundance and distribution and nonanthropogenic physical and biological processes; spatial and temporal scales; analytical methods and sampling strategies; marine fish life histories as related to oceanographic processes; marine ecosystem.

7370 Seminar: Theoretical Concepts of Ecology (1) S Prereq.: one-semester course in ecology or consent of instructor. May be repeated for credit. Announced topics.

7976 Seminar in Physical Oceanography and Meteorology (3) May be taken for a max. of 9 hrs. of credit when topics vary. Air-sea interaction, synoptic meteorology, tropical meteorology, geophysical fluid dynamics, ocean-atmosphere interaction related to climate change.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Advanced Reading and Literature Research (1-6) May be taken for a max. of 6 sem. hrs. of credit.

8901 Advanced Field Research (1-6) May be taken for a max. of 6 sem. hrs. of credit.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

PATHOBIOLOGICAL SCIENCES • PBS

7002 Pathobiological Sciences Research Techniques (1-4) V May be taken for a max. of 6 sem. hrs. of credit. Specialized research techniques related to a specific discipline of

pathobiological sciences.

7003 Special Topics in Pathobiological Sciences (1-4) V Prereq.: consent of instructor. May be taken for a max. of 8 hrs. of credit. Topics of current interest in pathobiological sciences.

7004 Current Literature in Pathobiological Sciences (1) V May be taken for a maximum of 6 hrs. of credit. Pass/fail grading. Review of the literature in areas of pathobiological sciences presented in a discussion format.

7301, 7302 Principles and Methods of Epidemiology and Disease Control I, II (4,4) 7301 offered F; 7302 offered S Prereq.: consent of instructor. 3 hrs. lecture; 3 hrs. lab.

Ecological and epidemiological concepts used in studying diseases in populations; epidemiological methods, with laboratory exercises emphasizing problem solving; epidemiological principles applied to disease control; planning, administration, and evaluation of disease-control programs.

7310 Zoonotic Infectious and Parasitic Diseases (3) F-E Prereq.: BIOL 4121 and 4122 or equivalent. Epidemiology, ecology, and control of major infectious and parasitic zoonoses.

7312 Epidemiological Study Design (4) S Introduction to the basic concepts of epidemiology with emphasis on the appropriate use and interpretation of epidemiological methods.

7404 Pathogenic Mechanisms of Bacteria (3) V Prereq.: BIOL 4094, 4121, and 4122 or equivalent. Relation of bacterial structure and function to the induction of disease; virulence factors, mechanisms of host-parasite interaction; vaccine strategies.

7410 Biochemistry of Viruses (3) S-E Prereq.: BIOL 4094 or equivalent. See BIOL 7289.

7411 Molecular Mechanisms of Viral Pathogenesis (3) S-E Prereq.: BIOL 4190 or VMED 5230 or equivalent. Virus-host interactions in disease induction emphasizing virus receptors and cell tropism, persistence and latency, oncogenesis, virus-induced immune suppression, and adverse responses of the host.

7413 Techniques in Flow Cytometry (1) F-O Prereq.: credit or registration in PBS 7423 or equivalent. 2 hrs. lab. Instruction and laboratory practices in principles and applications of flow cytometry; topics include cell processing and staining with fluorescent probes as a measurement of immunophenotyping, DNA, and functional assays as well as computer generated data analysis.

7415 Current Experimental Methods in Parasitology (1-4) F-O Prereq.: a course in parasitology or equivalent. 2-8 hrs. lab. May be taken for a max. of 4 sem. hrs. when animal groups vary. Specialized laboratory methods used to produce experimental infections, diagnose parasitism and recover and identify protozoan and helminth parasites of ruminants, horses, pigs, and companion animals.

7416 Mechanisms of Cellular Immunology and Immunopathology (3) S Prereq.: BIOL 4121 or equivalent. Mechanisms involved in the development of protective and pathologic immune responses; emphasis on the humoral and cellular components of inflammation and immune response to microbial infections.

7417 Pathogenesis of Infectious and Parasitic Agents (1-4) S Prereq.: introductory course in immunology. Introduction to the mechanisms of pathogenesis, pathology, and host immune interactions of viral, bacterial and parasitic disease agents.

7419 Population Dynamics and Ecology of Parasitic and Vector-Borne Diseases (3) S-O Prereq.: course in parasitology or equivalent. Population regulation and distribution of parasitic and vector-borne diseases of veterinary and medical significance; disease risk in populations and control strategies based on population models, transmission dynamics, climate, nutrition, immunity, geographic information systems, and herd health programs.

7423 Cellular and Molecular Immunology (3) F-O Prereq.: BIOL 4121 or equivalent. Cellular and molecular basis for the immune response; emphasis on molecular structure and function of antibodies and other receptors; role of lymphocyte subsets and cytokines in regulation of immune responses.

7424 Diseases of Aquatic Animals (3) F-E Prereq.: consent of instructor. Basic microbiology and/or parasitology strongly recommended. 2 hrs. lecture; 2 hrs. lab. Same as RNR 7424.

7501 Veterinary Cellular Pathology (3) F Prereq.: DVM degree or equivalent and consent of instructor. Basic mechanisms of pathogenesis and morphogenesis of disease at the cellular level; encompasses ultrastructural to functional pathologic changes in cells and extracellular matrix.

7502 Advanced Systemic Veterinary Pathology (5) V Prereq.: DVM degree or equivalent and credit or concurrent enrollment in PBS 7516. Study of diseases by organ systems, using electron and light microscopy; pathogenesis of specific diseases.

7508 Histopathology Slide Conference (1) F,S Prereq.: DVM degree or equivalent and consent of instructor. May be

taken for a max. of 4 hrs. of credit when topics vary.

Histopathological aspects of diseases in various animal species; direct student participation in morphological description and literature review.

7509 Surgical Pathology (1-2) V Prereq.: DVM degree or equivalent and PBS 7516. May be taken for a max. of 6 sem. hrs. credit when topics vary. Gross and microscopic examination of surgery-derived specimens of diseased tissues from various animals; clinical case interpretation, histopathological description, diagnosis, prognosis, and consultation techniques.

7513 Pathology of Neoplasia (2) V Prereq.: DVM degree or equivalent and PBS 7501. 1 hr. lecture; 1 hr. lab. Comparative gross, microscopic, immunochemical, and pathogenetic study of naturally occurring neoplastic disease in animals.

7514 Laboratory Animal Pathology (2) V Prereq.: DVM degree or equivalent and consent of instructor.

Macroscopic, microscopic, and pathogenetic study of the infectious, nutritional, degenerate, and toxic diseases that affect the commonly used species of laboratory rodents, rabbits, and primates.

7515 Veterinary Dermatopathology (2) V Prereq.: DVM degree or equivalent and PBS 7516. 1 hr. lecture; 2 hrs. lab. Histopathological evaluation of integumentary system, tissue response, and diseases of various animal species of veterinary importance.

7516 Advanced Diagnostic Pathology of Animals (1-2) V Prereq.: DVM degree or equivalent. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Necropsy of various animals submitted for postmortem examination: gross, light, and electron microscopy; and immunohistochemistry; correlation and synthesis of clinical information, anatomical finding, and other ancillary laboratory results, for an accurate determination of disease diagnosis and pathogenesis.

7525 Advanced Veterinary Clinical Pathology (1-2) V Prereq.: DVM degree or equivalent. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Diagnosis and pathogenesis of hematological and clinical chemistry changes in blood from various animal species; understanding the applicable instrumentation, and methodologies of assays and quality assurance; interpretation of cytological specimens (tissue and fluids) and correlation with clinical and histopathological findings.

7530, 7531, 7532 Laboratory Animal Science I, II, III (2, 2, 2) F,S,Su Prereq.: DVM degree or equivalent and consent of instructor. Biology, husbandry, diseases, medical care, regulations, and experimental uses of the commonly used laboratory animal species; courses need not be taken in sequence.

PETROLEUM ENGINEERING • PETE

1010 Introduction to Petroleum Engineering (2) F Prereq.: MATH 1021. Scientific bases of petroleum geology and chemistry, exploration, drilling, production, reservoir engineering, and refining.

2031 Reservoir Rock Properties (3) F Prereq.: MATH 1552, GEOL 1001 and PHYS 2101. Physical properties of reservoir rock related to the production of oil and gas.

2032 Reservoir Fluid Properties (3) S Prereq.: credit or registration in PHYS 2102. Physical and chemical properties of petroleum reservoir fluids related to production of oil and gas.

2034 Rock and Fluid Properties Laboratory (1) S Prereq.: credit in PETE 2031 and/or 2032, and registration in the other course. 3 hrs. lab.

2060 Computational Methods in Petroleum Engineering (2) F Prereq.: MATH 1552. 1 hr. lecture; 2 hrs. lab. Computing infrastructure, programming fundamentals, numerical methods, and petroleum engineering commercial software.

3002 Communicating Petroleum Engineering Technology (3) V Prereq.: ENGL 2000, junior standing in the College of Engineering, and permission of department. Communication skills including technical writing, public speaking, group management, and computer usage applied to petroleum engineering topics.

3025 Economic Aspects of Petroleum Production (3) F Prereq.: ECON 2030, PETE 2060, and credit or registration in IE 3302. Mineral ownership and leasing in Louisiana; production decline curve analysis; profitability analysis; risk analysis; evaluation of petroleum properties.

3036 Well Logging (3) F Prereq.: PETE 2031, and either EE 2950 or PHYS 2102. Qualitative and quantitative formation evaluation by means of electric, acoustic, and radioactive well logs.

3037 Petroleum Field Operations (1) F Prereq.: permission of department; 3 hrs. lab. Field operations associated with production engineering; field equipment and operation; pneumatic and electronic safety systems;

fluid flow measurements.

3053 Petroleum Engineering Aspects of Subsurface Geology (3) S Prereq.: PETE 3025 and 3036; or senior status in geology. Engineering aspects of petroleum geology; interpretation of subsurface data; reservoir mapping; determination of reservoir volume.

3990 Independent Research (1-2) F,S,Su May be taken for a max. of 3 sem. hrs. of credit. Number of hours, outline of proposed work, and name of faculty supervisor must be stated at time of registration. Individual research or engineering studies with faculty supervision.

4045 Drilling Engineering (3) F Prereq.: PETE 4060, CE 2200 and credit or registration in CE 3400. Drilling process, including equipment and performance; well pressure control and buoyancy; rheology, circulation pressure, and optimum hydraulics of drilling fluids; oil well casing design and cementing techniques.

4046 Well Design-Production (3) S Prereq.: PETE 4045, CE 2460 or ME 3133, and CE 3400. Analysis and design of well production systems; rod pumping, gas lift.

4050 Reservoir Dynamics (3) S Prereq.: PETE 2032, ME 3333 and MATH 2065. Fundamentals of reservoir flow; application to single-well performance; well testing, gas reservoir engineering; waterflooding fundamentals.

4051 Reserve Estimation and Reservoir Management (3) F Prereq.: PETE 3025, 3053, and IE 3302. Quantitative study and behavior prediction of volumetric and water-drive reservoir systems by material balance.

4056 Numerical Simulation of Improved Recovery Processes (3) S Prereq.: MATH 2065, and PETE 4050 and 4051. Use of computer simulation to predict oil and gas reservoir performance and to design enhanced recovery processes.

4058 Reservoir Mechanics Laboratory (1) S Prereq.: PETE 4051. 3 hrs. lab. Simulation of reservoirs with physical models; fluid flow in porous media.

4059 Drilling Fluids Laboratory (1) F Prereq.: credit or registration in PETE 4045. 3 hrs. lab. Accompanies PETE 4045.

4060 Prevention of Oil and Gas Well Blowouts (1) S Prereq.: CE 2200. 3 hrs. lab. Causes and detection of well kicks and the proper handling of these kicks to prevent uncontrolled flow (blowout) from the well; methods and techniques currently used in the oil and gas industry.

4083 Secondary Recovery of Petroleum (3) V Prereq.: PETE 4050 and 4051. Reservoir mechanics and application of immiscible fluids displacement methods to secondary recovery of oil.

4085 Surface Handling of Produced Fluids (3) V Prereq.: PETE 2032 and 2034. Operating principles and design criteria for equipment used in field processing of oil and gas, e.g., lean oil gasoline plants, gas dehydration units, gas sweetening units, cryogenic gasoline plants, separators, gas transmission and compression facilities.

4086 Well Design-Drilling (3) V Prereq.: PETE 4045. Design of drilling operations; bit selection and evaluation; mathematical modeling of bitwear and penetration rate; determination of formation pore pressure and fracture pressure; selection of well casing and casing setting depths; directional drilling; special design considerations for horizontal wells.

4087 Environmental Control in Petroleum Engineering (3) V Prereq.: PETE 4045, 4051, and 4059. Environmental impact and pollution mechanisms in petroleum engineering technologies; basic concepts regarding oilfield waste generation, toxicity, and environmental regulatory process; synergy between process productivity and environmental performance.

4088 Formation Evaluation (3) V Prereq.: PETE 3036. Use of different formation evaluation techniques to provide a comprehensive description of reservoir content producibility; drilling fluid and cutting analysis; core analysis; formation tester; drillstem test; analysis of openhole logs by overlay, crossplot, and digital evaluation methods.

4089 Natural Gas Engineering (3) V Prereq.: PETE 4050. Application of reservoir engineering principles and practices to gas and gas-condensate reservoirs; prediction of gas well performance; management of all types of gas reservoirs; underground gas storage.

4241 Special Topics in Petroleum Engineering Design (3) Prereq.: senior or graduate standing and permission of instructor. May be taken for a max. of 6 hrs. credit when topics vary. One or more phases of current petroleum engineering design.

4253 Unitization and Appraisal of Petroleum Properties (3) V Prereq.: PETE 3025, 3053, and 4051. Technical aspects of unitization and evaluation of petroleum properties subject to joint management.

4998 Senior Project I (1) F, S Prereq.: senior status in the College of Engineering, ENGL 2000. Written and oral presentation required. First phase of theoretical and/or experimental investigations of an approved topic in petroleum engineering.

4999 Senior Project II (1) F, S Prereq.: PETE 4998 and senior standing in the College of Engineering. Written and oral presentation required. Theoretical and/or experimental investigation, including a literature review, of an approved topic in petroleum engineering.

7195 Reservoir Characterization (3) See GEOL 7195.

7201 Fluid Flow in Porous Media (3) V Prereq.: PETE 4050 and 4056, or equivalent. General hydrodynamic equations for flow of fluids through porous media; two-dimensional flow problems and potential theory methods; gravity flow systems; two-fluid systems; systems of nonuniform permeability; multiple well systems using computerized streamline tracking methods.

7202 Advanced Well Testing Theory and Analysis (3) V Prereq.: PETE 4050 and 4051 or equivalent. Unsteady-state flow of reservoir fluids in porous media; application of theory to pressure buildup analysis, well interference testing, pulse testing, pressure draw down analysis, drill stem testing, and water influx prediction.

7211 Production System Analysis (3) V Prereq.: CE 2200, ME 3333 and PETE 4046 or equivalent. Use of multiphase flow correlations to determine flow rates and pressure traverses in flowing oil wells, gas-condensate wells, gathering systems, and pipe lines; applications of correlations to the design of gas lift systems.

7212 Well Completion Design (3) V Prereq.: PETE 4046 or consent of instructor. Systems analysis for optimum production by designing best combination of tubing, flow lines, choke sizes, perforation density, and separator pressure; inflow performance of reservoirs; well completion techniques; gravel packing; tubing effects.

7221 Drilling Data Acquisition and Processing (3) V Prereq.: PETE 4059, 4060, and 4086 or equivalent. Mud and surface drilling data acquisition and processing; downhole data acquisition with drilling stopped and while drilling, data processing; formation evaluation and data analysis.

7222 Downhole Production Fluid Dynamics (3) V Prereq.: PETE 4057 and 4085. Wireline sidewall core and fluid recovery; data analysis and completion techniques; thermodynamic properties of fluids; downhole production data acquisition and interpretation; cased hole formation evaluation.

7231 Nonthermal Methods of Enhanced Oil Recovery (3) V Theory and field practice related to miscible displacement processes and chemical and polymer flooding techniques.

7232 Thermal Methods of Oil Recovery (3) V Theory of heat transfer and heat generation applied to the performance prediction of oil recovery by such field processes as forward and reverse *in situ* combustion, continuous and cyclic hot fluid injection, and production well heating.

7241, 7242 Selected Topics in Advanced Petroleum Engineering (3,3) V May be repeated for credit when topic varies; a total of 12 sem. hrs. of credit may be earned in these two courses.

7256 Special Problems in Petroleum Engineering (1-6) F,S,Su May be taken for a max. of 6 sem. hrs. of credit. Individual study and research.

7280 Mathematical Simulation of Petroleum Reservoir Performance (3) V Prereq.: PETE 4056 or equivalent; and PETE 4050 and 4051. Development and application of mathematical models for predicting petroleum reservoir performance, including multiphase fluid flow in three dimensions.

7285 Statistical Reservoir Modeling (3) Prereq.: permission of instructor. Theory and practice of modeling uncertainty; spatially variable rock properties for subsurface reservoirs; distributions, transforms, Bayesian updating, variograms/correlograms, estimation and coestimation with various kriging methods, conditional simulation.

7999 Seminar (1) All graduate students are expected to attend this course every semester. Only 1 sem. hr. of credit will be allowed towards the degree. Pass/Fail grading.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

PHILOSOPHY • PHIL

General education courses are marked with stars (★).

★ **1000 Introduction to Philosophy (3) Credit will not be given for both this course and PHIL 1001.** Major works on such themes as appearance and reality, human nature, nature of knowledge, relation of mind and body, right and good, existence of God, and freedom and determinism.

★ **1001 HONORS: Introduction to Philosophy (3) Same as PHIL 1000, with a special honors emphasis for qualified students. Credit will not be given for both this course and PHIL 1000.**

★ **1021 Introduction Logic (3) No special background presupposed.** Formal and informal reasoning; introduction to propositional logic; formal and informal fallacies; scientific reasoning.

2000 Contemporary Moral Problems (3) Philosophical

study of contemporary moral problems such as capital punishment, preferential treatment, sexual equality, sexual liberation, terrorism, war and nuclear arms, animal rights, world hunger, environmental ethics, and the morality of suicide.

★ **2010 Symbolic Logic I (3) Classical propositional and first-order predicate logic; syntax and semantics of formal languages; translation between formal languages and English; formal methods of proof.**

2018 Professional Ethics (3) Special problems of obligation and valuation related to law, medicine, politics, and education, as well as business, engineering, and architecture; altruism, trust, vocation, codes of honor, professional privilege, and responsibilities for others arising from differential abilities.

★ **2020 Ethics (3) Classical and recent theories of obligation and value, including works of philosophers such as Plato, Aristotle, Kant, Hume, and Nietzsche; topics including freedom, rights, justification of moral judgments.**

2021 Environmental Ethics (3) Ethical relations to other humans through the environment and to non-humans within the environment. Topics may include: animal rights, the intrinsic value of nature, deep ecology, climate change, and pollution.

★ **2023 Philosophy of Art (3) Philosophical theories of beauty, art, and art criticism.**

★ **2024 Philosophy in Literature (3) Philosophical themes in world literature: fiction, poetry, drama, and autobiography.**

2025 Bioethics (3) Defining health and disease; deciding on rights, duties, and obligations in the patient-physician relationship; abortion and the concept of a person; defining and determining death; euthanasia and the dignity of death; allocation of medical resources, both large-scale and small-scale; experimentation with fetuses, children, prisoners, and animals; genetic testing, screening, and interference.

★ **2028 Philosophy of Religion (3) Same as REL 2028.** Essence and meaning of religion as a pervasive phenomenon in human societies; faith and reason, nature of divinity, arguments for and against God's existence, religious knowledge and experience, morality and cult, the problem of evil.

★ **2033 History of Ancient and Medieval Philosophy (3) An honors course, PHIL 2034, is also available.** Introduction to philosophy through a study of some of the main writings of classical and medieval philosophy.

2034 HONORS: Tutorial in Ancient and Medieval Philosophy (1) To be taken concurrently with PHIL 2033. 1 hr. of tutorial instruction per week for honors students.

★ **2035 History of Modern Philosophy (3) An honors course, PHIL 2036, is also available.** Introduction to philosophy through a study of some of the main writings of modern philosophy.

2036 HONORS: Tutorial in Modern Philosophy (1) To be taken concurrently with PHIL 2035. 1 hr. of tutorial instruction per week for honors students.

★ **2053 HONORS: History of Ancient and Medieval Philosophy (3) Prereq.:** one course in philosophy, HNRS 1001/1003 or 2002/2004, or permission of instructor. Same as PHIL 2033 with a special honors emphasis for qualified students. Supervised reading, discussion, research, and writing.

2745 Knowledge and Reality (3) Introduction to central epistemological and metaphysical questions: mind and matter; causation and free will; space and time; meaning and truth; the nature of knowledge and justified belief; perception, memory, reasoning, and testimony as sources of knowledge and justified belief.

2786 Logic, Science, and Society (3) Prereq.: completed analytical reasoning area of general education or consent of instructor. Logic, evidence, probability, and induction; objectivity and relativism; technology and utopia.

2953 HONORS: Philosophical Colloquium (3) Prereq.: a grade of "B" or higher in at least one other philosophy course; or consent of instructor. Subject drawn from prominent philosophical works.

2963, 2964, 2965 HONORS: Independent Work for Honors Students (1,1,1) Prereq.: sophomore standing, completion of at least 3 hrs. of philosophy with a grade of "B" or higher, and a gpa of at least 3.00 in all work taken. Readings, conferences, and reports under faculty direction.

3001 Existentialism (3) Basic themes of existentialist philosophy; the works of Kierkegaard, Nietzsche, Jaspers, Heidegger, Camus, Marcel, and Sartre.

3002 Philosophy and Film (3) Films as philosophical texts.

3003 French Existentialism (3) Major themes, issues, and theories of the French existentialist; existence, essence, and the question of Being; death, nothingness, and anxiety; freedom, responsibility, and values; the ethical and the other; authors include Jean-Paul Sartre, Simone De Beauvoir, Maurice Merleau-Ponty; Albert Camus,

Emmanuel Levinas, Jean Beaufret, Gabriel Marcel, Emmanuel Mounier.

3015 Christian Philosophy (3) Prereq.: one course in either philosophy or religious studies or equivalent. Also offered as REL 3015. Applications of philosophy to such themes in Christianity as knowing God, the nature, and structure of faith, revelation, incarnation, faith and science, Christianity and other faiths.

3020 Special Topics in Philosophy (1-3) May be taken twice for credit when topics vary.

3052 Moral Philosophy (3) May be taken twice when topics vary. Topics in ethics and meta-ethics: egoism, consequentialism, deontology, moral relativism, virtue ethics, values, ethics and religion; naturalistic fallacy, truth and justification, realism and objectivity, motivation and practical reasoning, autonomy, and game theory.

3090 Friedrich Nietzsche (3) See GERM 3090.

3110 The Philosophy of Socrates (3) Early dialogues of Plato; Socrates on pleasure, friendship, virtue, justice, courage, temperance, wisdom, and happiness; on knowing the better and following the worse; on reason and inspiration; Socratic irony.

3950 Introduction to Epistemology (3) Survey of central issues in the theory of knowledge; knowledge as justified true belief; the Gettier problem; induction as a source of justification; *a priori* knowledge; fallibilist vs. infallibilist and internalist vs. externalist conceptions of justification; structure of justification.

4002 Philosophy of Film (3) Theories of film.

4003 Contemporary French Philosophy (3) Major contemporary French philosophers, including Bergson, Sartre, Merleau-Ponty, De Beauvoir, Levinas, Derrida, Foucault, Nancy Ricoeur, Marion, Janicaud; themes such as the rethinking of ethics, the question of humanism, and political thought; intellectual movements such as structuralism and post-structuralism, phenomenology, hermeneutics and deconstruction, feminism and psychoanalysis.

4010 Symbolic Logic II (3) Prereq.: PHIL 2010 or consent of instructor. Syntax and basic model theory of classical first order logic; soundness and completeness.

4011 Topics in Advanced Logic (3) Prereq.: PHIL 4010 or consent of instructor. Also offered as LING 4011. Topics may include advanced metatheory of symbolic languages, intentional logics, and Montague grammar.

4015 Philosophy of Male and Female (3) Philosophical examination of the concepts of human nature that underlie a variety of theories about women and femininity.

4098 Politics and Ethics (3) See POLI 4098.

4786 Selected Topics (3) May be taken for a max. of 6 sem. hrs. when topics vary.

4914 Philosophy of Language (3) Prereq.: one logic course or consent of instructor. Also offered as LING 4914. Various theories of meaning, their implications and presuppositions, and their relevance to issues in such areas as theory of perception, theory of truth, metaphysics, ethics, philosophy of mind and action.

4920 Presocratic Philosophy (3) Prereq.: PHIL 2033 or equivalent. Study of the major Presocratic Philosophers from Thales up to and including the Sophists.

4922 Plato (3) Prereq.: PHIL 2033 or equivalent.

4924 Aristotle (3) Prereq.: PHIL 2033 or equivalent. Topics from Aristotle's *Metaphysics*, *Physics*, *De Anima*, and the logical treatises.

4926 Hellenistic Philosophy (3) Prereq.: PHIL 2033 or equivalent. Study of the major Hellenistic Philosophical Schools: the Epicureans, the Stoics, and the Sceptics.

4928 Medieval Philosophy (3) Also offered as REL 4928. Analysis of key themes, traditions, and figures in medieval philosophy.

4931 Descartes, Spinoza, and Leibniz (3) Prereq.: 6 hrs. of philosophy or consent of instructor. 17th century rationalism, with emphasis on epistemology and metaphysics.

4933 Locke, Berkeley, Hume (3) Language, epistemology, ontology, self, God, causation, realism, and idealism in the writings of these British empiricists.

4935 Kant (3) Prereq.: PHIL 2035 or equivalent. Basic topics and arguments of Kant's *Critique of Pure Reason*.

4936 19th Century Philosophy (3) Prereq.: PHIL 2033 and 2035; or equivalent. 19th century philosophy, with emphasis on German thought; readings in Fichte, Hegel, Marx, Nietzsche, Bergson, and others.

4938 Philosophical Thought in America (3) Late 19th and early 20th centuries; topics from such philosophers as Peirce, James, Royce, Dewey, Santayana, Ward, and Mead.

4939 Kierkegaard (3) Also offered as REL 4939. Study of his works, such as, *Either/Or*, *The Sickness Unto Death*, *Fear and Trembling*, *Concluding Unscientific Postscript*, *Stages on Life's Way*, and *The Present Age*.

4940 Aesthetics (3) Meaning and truth in the arts; artistic intention; critical canons.

4941 Philosophy of Mind (3) Prereq.: PHIL 2033 and 2035; or equivalent. Recent philosophical treatments of human

nature; the mind-body problem, identity of the person in time, the person as rational and volitional, and relation of the person to the world.

4942 Topics in Meta-Ethics (3) Prereq.: two courses in philosophy or consent of instructor. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Naturalistic fallacy, truth and meaning, realism an objectivity, motivation and practical reasoning, autonomy, and justification of ethical theory.

4943 Ethics (3) Prereq.: two courses in philosophy or consent of instructor. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Egoism, utilitarianism, deontological systems, intuitionism, moral particularism, virtue ethics, relativism, weakness of will, and value theory.

4944 Philosophical Theology (3) Prereq.: two courses in philosophy and/or religious studies. Also offered as REL 4944. Major themes and works in philosophical theology.

4945 Political Philosophy (3) Prereq.: PHIL 1000 or 2020 or equivalent. Freedom, obligation, authority, justice, law, the state, and revolution.

4946 Philosophy of Law (3) Moral issues in foundations of law and legal authority; nature of law; civil disobedience; principles of punishment; legal liability; morals legislation; *Good Samaritan* laws; moral basis of contract law.

4948 Phenomenology (3) Prereq.: PHIL 2035 or 4936 or equivalent. Contemporary phenomenology; readings in Husserl.

4950 Advanced Epistemology (3) Prereq.: PHIL 3950 or consent of instructor. Topics may include naturalized epistemology, internalism vs. externalism about justification; *a priori* knowledge; justification and truth; skepticism, Bayesian approaches to justification, contextualist theories of knowledge, and the possibility of non-inferential justification.

4951 Philosophy of Science (3) Prereq.: consent of instructor. Philosophical issues related to concept formation and theory construction in the natural, behavioral, and social sciences.

4952 Topics in Metaphysics (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Topics include ontology, modalities, universals, truth, causation, reductionism, identity (physical and personal), realism, and the meaning of life.

4953 Contemporary Analytic Philosophy (3) Prereq.: one logic course and either PHIL 2035 or 4933. Topics from leading philosophers in such contemporary movements as logical empiricism, formalism, and ordinary language analysis, including readings from Moore, Russell,

Wittgenstein, Carnap, Goodman, Ryle, Strawson, and Quine.

4954 Recent Speculative Philosophy (3) Prereq.: two other philosophy courses or consent of instructor. Theories of being and knowing in recent absolute idealism, process philosophy, and phenomenological existentialism.

4972 Kant's Moral Philosophy (3) Study of selected Kant's works in moral philosophy such as, *Groundwork of the Metaphysics of Morals*, *Metaphysics of Morals*, *Critique of Practical Reason*, and *Anthropology From A Pragmatic Point of View*.

4991 Independent Reading and Research (1-3) Prereq.: written consent of instructor and department. May be taken for a max. of 6 hrs. of credit when topics vary. Total credit earned as a graduate student in PHIL 4991 and PHIL 7991 combined may not exceed 9 hrs.

7901 Seminar in Contemporary Analytic Philosophy (3) Philosophy of language, metaphysics, realism, anti-realism, and philosophy of logic and mathematics.

7903 Seminar in Continental Philosophy (3) Major figures and/or movements in continental philosophy.

7905 Seminar in History of Philosophy (3) May be taken for a max. of 9 hrs. of credit when topics vary. Study of a major philosopher or school of philosophy.

7910 Seminar (3) May be taken for a max. of 6 hrs. of credit when topics vary. May be offered as LING 7910 when topic is appropriate.

7991 Independent Reading and Research (1-6) Prereq.: written consent of instructor and departmental director of graduate studies. Total credit earned as a graduate student in PHIL 4991 and PHIL 7991 combined may not exceed 9 sem. hrs.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

PHYSICAL SCIENCE • PHSC

General education courses are marked with stars (★).

★ **1001 Physical Science (3)** Prereq.: MATH 1021. Credit will not be given for both this course and any other college-level physics course. First half of a two-semester survey course in the physical sciences; topics in the first semester are taken primarily from the field of physics.

★ **1002 Physical Science (3)** Prereq.: PHSC 1001. Credit will not be given for both this course and any other college-level astronomy course. Second half of a two-semester survey course in the physical sciences; topics in the second semester are taken primarily from the fields of astronomy,

chemistry, and geology.

1021 Physical Science with Laboratory (3) F,S Prereq.: MATH 1021 or 1029. Credit will not be given for this course and PHSC 1001. 2 hrs. lecture; 2 hrs. lab. Exposition of physical science concepts through laboratory investigations; topics such as nature of matter, forces and motion, electricity and magnetism, and sound.

1022 Physical Science with Laboratory (3) F,S Prereq.: MATH 1021 or 1029. Credit will not be given for this course and PHSC 1001. 2 hrs. lecture; 2 hrs. lab. Exposition of physical science concepts through laboratory investigations; topics such as changes in matter, light and color, energy, and observational astronomy.

PHYSICS • PHYS

Prerequisites • All prerequisites in physics courses should be rigidly observed.

Corequisites • A student may not continue in a course after dropping a corequisite course prior to the last day of the midsemester examination period.

Of the 7000-level courses, those numbered in the 7200s, as well as 7343, 7363, 7383, 7398, and 7411 are offered every year; 7353 and 7373 every other year. All other courses are offered sporadically as interest demands and in order to provide a varied curriculum.

General education courses are marked with stars (★).

1100 Introduction to Physics (3) Prereq.: credit or registration in MATH 1550. Measurement, vectors, kinematics, Newton's laws of motion, wave motion, temperature, the electric field, DC circuits, and geometrical optics.

★ **1201, ★ 1202 General Physics for Physics Majors (4,4)** F,S Prereq. for 1201: Grade of C or better in PHYS 1100 or placement by examination; credit or registration in MATH 1550. Prereq. for 1202: PHYS 1201 and credit or registration in MATH 1552. 4 hrs. lecture/demonstration. Primarily for students intending to major in physics. Credit will not be given for these courses and PHYS 2001, 2002 or 2101, 2102. Fundamentals of classical physics and some concepts of modern physics; calculus and vector analysis introduced and used in development of subject matter.

1208, 1209 General Physics Laboratory for Physics Majors (1,1) F,S Prereq. for 1208: credit or registration in PHYS 1201. Prereq. for 1209: credit or registration in PHYS 1202. 3 hrs. lab. Credit will not be given for these courses and PHYS 2108, 2109. Laboratory to accompany PHYS 1201, 1202.

★ **2001, ★ 2002 General Physics (3,3)** Prereq. for PHYS 2001: MATH 1022 or 1023; Prereq. for PHYS 2002: PHYS 2001. 3 hrs. lecture/demonstration. Credit will not be given for these courses and PHYS 1201, 1202 or 2101, 2102. Mechanics, heat, sound, light, electricity, and magnetism; topics in modern physics.

★ **2101 General Physics for Technical Students (3)** Prereq.: Grade of "C" or better in PHYS 1100 or placement by examination; credit or registration in MATH 1552. Credit will not be given for both this course and PHYS 1201, 2001. Mechanics, wave motion, thermodynamics, and kinetic theory.

★ **2102 General Physics for Technical Students (3)** Prereq.: PHYS 2101 and MATH 1552. Credit will not be given for both this course and PHYS 1202, 2002. Electricity, magnetism, physical optics, and topics from modern physics.

2108 Introductory Physics Laboratory (1) Prereq.: credit or registration in PHYS 2001 or 2101. 3 hrs. lab. Credit will not be given for both this course and PHYS 1208. Laboratory to accompany PHYS 2001 or 2101.

2109 General Physics Laboratory (1) Prereq.: PHYS 2108 and credit or registration in PHYS 2002 or 2102. 3 hrs. lab. Credit will not be given for both this course and PHYS 1209. Laboratory to accompany PHYS 2002 and 2102; electricity, magnetism, geometrical and physical optics, and other topics in modern physics.

2111 Elementary Mathematical Physics (3) F Prereq.: PHYS 1202 or 2102; and credit in MATH 1552. Mathematical methods of physics; vector calculus, complex variables, Fourier series, matrices and determinants, differential equations with application to selected problems in physics.

2203 Introductory Modern Physics (3) F Prereq.: PHYS 1202 or 2102. Elementary modern physics; special relativity, wave/particle duality, quantum mechanics, hydrogen atom, many-electron atoms, nuclear structure, elementary particles, solid state, astrophysics, and cosmology.

2207 Introductory Modern Physics Laboratory (1) F Coreq.: PHYS 2203. Required for physics majors. Laboratory to accompany PHYS 2203.

2221 Introduction to Mechanics (3) Prereq.: *PHYS 1202 or 2102 and MATH 2057*. Basic concepts of mechanics with emphasis on corresponding mathematical techniques.

2231 Electricity and Magnetism (3) S Prereq.: *PHYS 2221 or CHEM 4581 and credit or registration in MATH 2065 or 2090*. Electricity and magnetism; static and quasistatic electromagnetic fields in vacua and in dielectric and magnetic media.

★ 2401 Introduction to Concepts in Physics (3) V Prereq.: *MATH 1021 or an ACT math score of at least 25*. Primarily for students in liberal arts and education. Historical evolution and underlying philosophy of principles of physics; provides appreciation of physics; does not develop technical skill.

2411 Computational Science I (3) Prereq.: *PHYS 2221; or PHYS 1202 or 2102 and MATH 2057; or CHEM 4581 and credit or registration in MATH 2065*. 2 hrs. lecture; 2 hrs. lab. Introduction to symbolic manipulation and numerical techniques used to analyze or simulate a broad range of physical systems.

2995 Research Internship (1) Prereq.: *consent of instructor and department chair. May be repeated for credit*. Individual reading and theoretical and/or experimental research on introductory problems in physics.

3001 Science Teaching in Secondary School I: The Learner (1) See *BIOL 3001*.

3002 Science Teaching in Secondary School II: Technology in Science Education (1) See *BIOL 3002*.

4003 Science Teaching in Secondary School III: Instructional Strategies in Science (1) Prereq.: *Registration in EDCI 4003 or equivalent and credit in EDCI 3002 and PHYS 3002*. Model whole-classroom instructional strategies that depart from the lecture style (cooperative learning or open-ended problem exploration); design and presentation of a science lesson using such a strategy; laboratory safety program management.

4004 Seminar in Teaching Secondary School Science (3) See *BIOL 4004*.

4005 Science Research Methods (3) See *BIOL 4005*.

4098 Instrumentation Electronics for Scientists (3) S Prereq.: *PHYS 1202 and 1209; or PHYS 2102 and 2109*. 2 hrs. lecture; 3 hrs. lab. Basic electronic technology and circuits used in scientific instrumentation; circuit analysis, discrete components, operational amplifiers, and digital electronics.

4112 Intermediate Mathematical Physics (3) V Prereq.: *PHYS 2221 or CHEM 4581; and credit or registration in MATH 2065 or 2090*. Mathematical methods of physics, with application to selected problems.

4123 Intermediate Mechanics (3) Prereq.: *PHYS 2221 and MATH 2057*. Lagrangian mechanics; central force motion; rigid body dynamics; small oscillations.

4125 Thermodynamics and Statistical Mechanics (3) V Prereq.: *PHYS 2221 and credit or registration in MATH 2065 or 2090; or CHEM 4581 and credit or registration in MATH 2065 or 2090*. Basic physical concepts and methods appropriate for description of systems involving many particles; unified view point of thermodynamics, statistical mechanics, and kinetic theory.

4132 Electromagnetism and Electromagnetic Waves (3) F Prereq.: *PHYS 2231. Continuation of PHYS 2231*. Emphasis on electromagnetic waves and radiation.

4135 Modern Optics (3) V Prereq.: *PHYS 2221 and MATH 2065 or 2090; or CHEM 4581 and MATH 2065 or 2090*. Review of geometrical optics and optical instruments, scalar diffraction theory, spatial filtering and holography, Gaussian beam optics, optical resonators, lasers, and optical properties of materials.

4136 Modern Optics Laboratory (3) V Prereq.: *PHYS 4135*. 1 hr. lecture; 5 hrs. lab. Techniques in modern optics, including interferometers, electrooptic and magneto-optic devices, fiber optics, spatial filtering, holography, and spectroscopy.

4141, 4142 Introduction to Quantum Mechanics (3,3) F,S Prereq.: *PHYS 2221 and credit or registration in MATH 2065 or 2090; or CHEM 4581 and credit or registration in MATH 2065 or 2090; PHYS 4141 is prerequisite for 4142*. Elementary principles of quantum mechanics, including Schrödinger equation, one-dimensional problems, harmonic oscillator, angular momentum, perturbation theory, matrix mechanics, and spin.

4198 Advanced Modern Physics Laboratory (3) S Prereq.: *PHYS 4141*. 1 hr. lecture; 6 hrs. lab/computations. Electricity and magnetism, optics, and atomic, nuclear, and solid-state physics.

4201, 4202 Survey of Contemporary Physics (3,3) F,S Prereq.: *PHYS 4142 or equivalent*. Current research in physics: relativity, atomic physics, solid-state physics, nuclear physics, elementary particles, astrophysics.

4251 Atomic Physics (3) V Prereq.: *PHYS 4142 and credit or registration in 4132*. Modern theory of atomic structure, radiations, and processes.

4261 Introduction to Solid-State Physics (3) V Prereq.: *PHYS 2203 or 4141*. Properties of the crystalline state and the

free-electron; band theories of metals, insulators, and semiconductors.

4271 Subatomic Physics (3) Prereq.: *PHYS 2203 or 4141*. Nuclear and particle properties, abundance and stability of nuclei, strong, weak, and electromagnetic forces, nuclear instrumentation, particle accelerators and detectors, nuclear reactions, and particle and nuclear astrophysics.

4399 Research in Experimental Physics (3) F Prereq.: *PHYS 4198 or consent of instructor and department chair*. Individual research project conducted and reported under supervision of individually selected faculty member.

4412 Computational Science II (3) Prereq.: *PHYS 2411 or equivalent. Continuation of PHYS 2411*. Advanced techniques for numerical computations in the physical sciences.

4750 Special Topics in Physics (3) F S Prereq.: *Consent of instructor. May be taken for a max. of 6 sem. hrs. credit if topics vary*.

4991 Special Problems in Physics (1-3) Prereq.: *thorough knowledge of the fundamentals of physics and mathematics, demonstrated ability in science, and consent of instructor and department chair. May be taken for a max. of 6 sem. hrs. credit*. Individual reading and theoretical and/or experimental work on advanced problems in physics.

6111 Mathematical Physics for Teachers (3) Su only-V Prereq.: *PHYS 2002 or 2102. Not for degree credit for physics majors*. Mathematical structure of physics.

6121 Classical Physics for Teachers (3) Su only-V Prereq.: *PHYS 2002 or 2102. For high school and junior college teachers; part of the MNS degree program*. Application of conservation principles to development of classical physics.

6141 Quantum Physics of Atoms, Molecules, Solids, and Nuclei for Teachers (3) Su only-V Prereq.: *PHYS 2002 or 2102. For high school and junior college teachers; part of the MNS degree program*. Origins of quantum theory; application to atoms, molecules, solids, and nuclei.

6191 Research Participation for Teachers (3) Su only-V Prereq.: *PHYS 2002 or 2102. May be taken for a max. of 9 hrs. of credit*.

6198 Laboratory Methods for Teachers (3) Su only-V Prereq.: *PHYS 2002 or 2102*. 1 hr. lecture; 6 hrs. lab. For high school and junior college teachers; part of the MNS degree program. May be taken for a max. of 9 hrs. of credit. Analysis of laboratory experiments in current high school physics curricula; selected experiments in modern physics.

6991 Seminar in Current Developments in Physics Curriculum Materials (1-3) Su only-V Prereq.: *PHYS 2002 or 2102. For high school and junior college teachers; part of the MNS degree program. May be taken for a max. of 6 sem. hrs. credit*.

7211, 7212 Mathematical Methods of Theoretical Physics (3,3) F,S Prereq.: *PHYS 4112 or equivalent. PHYS 7211 is prerequisite for 7212*. Advanced topics in mathematical methods of theoretical physics; mathematical foundations of quantum mechanics.

7221 Classical Mechanics (3) Su Study of particle mechanics and rigid body mechanics using the methods of Lagrange's equations, Hamilton's equations, canonical transformations, and Hamilton-Jacobi theory.

7223 Mechanics of Deformable Bodies (3) V Mechanics of inviscid and Newtonian viscous fluids; elasticity of solids.

7225 Statistical Mechanics (3) Su Principles of classical and quantum statistics, with application to special problems.

7231, 7232 Classical Electrodynamics (3,3) F,S *PHYS 7231 is prerequisite for 7232*. Problems in electrostatics and magnetostatics; Maxwell's equations, electromagnetic waves, wave guides, and antennas; relativistic electrodynamics and radiation from moving charges.

7241, 7242 Quantum Mechanics (3,3) F,S Prereq.: *PHYS 4142 or equivalent. PHYS 7241 is prerequisite for 7242*. Basic concepts of nonrelativistic quantum mechanics, operators and matrices, intrinsic and orbital angular momenta, perturbation theory, atomic structure, second quantization, and scattering theory.

7336 General Relativity (3) V General tensor analysis; postulates of general relativity, field equations, equations of motion, interior and exterior Schwarzschild solutions; cosmology.

7343 Advanced Quantum Mechanics (3) V Prereq.: *PHYS 7242*. The Lorentz group, relativistic wave equations, introduction to quantum field theory.

7353, 7354 Atomic and Optical Physics II, II (3,3) V Prereq.: *PHYS 7242; PHYS 7353 is prerequisite for 7354*. Applications of quantum mechanics to atomic systems and their interaction with radiation; spectral levels, photo-absorption and collisions with charged particles.

7360 Low-Temperature Physics (3) V Properties of matter at temperatures near absolute zero; methods of producing low temperatures; superfluidity of liquid helium, superconductivity, magnetic effects, and adiabatic demagnetization.

7363, 7364 Condensed Matter Physics (3,3) V Prereq.: *PHYS 7225 and 7242. PHYS 7363 is prerequisite for 7364*. Application of quantum mechanics and statistical mechanics

to condensed matter; lattice vibrations, energy bands in crystals, transport properties, collective excitations, ferromagnetism and superconductivity; theory of Fermi and Bose quantum fluids, phase transitions, and critical phenomena.

7373, 7374 Nuclear Physics (3,3) V Prereq.: *PHYS 4271 and 7241. PHYS 7373 is prerequisite for 7374*. Applications of quantum mechanics to the two-nucleon system, to a system of many nucleons, and to nuclear reactions, with comparisons between theory and experimental results.

7383, 7384 High Energy Particle Physics (3,3) V Prereq.: *PHYS 7231 and 7242*. Strong electromagnetic and weak interactions of hadrons and leptons, including symmetries and selection rules; quantum chromodynamics and electroweak theory; accelerator and nonaccelerator experiments including cosmic rays and high energy astrophysics.

7398 Graduate Laboratory (3) S,Su 1 hr. lecture; 6 hrs. lab. Practical experience in modern experimental physics laboratory techniques.

7411, 7412 Computational Physics (3,3) Prereq.: *PHYS 7211. PHYS 7411 is prerequisite for PHYS 7412*. Basic numerical techniques for solution of mathematical equations, including coupled linear algebraic and differential equations, and numerical simulation techniques; emphasis on application to physical problems.

7463, 7464 Theoretical Condensed Matter Physics (3,3) F,S Prereq.: *PHYS 7242. PHYS 7463 is prerequisite for PHYS 7464*. Density functional theory of electronic structure, mean field, and renormalization group theory of phase transitions; linear response theory; quantum transport. Landau theory of Fermi liquids; systems of strongly interacting electrons, superconductivity.

7537 Radiation Interactions and Transport (3) F Prereq.: *PHYS 2203 or equivalent, CSC 2262, or equivalent. Same as MEDP 7537*.

7538 Monte Carlo Simulation of Radiation Transport (3) S Prereq.: *MEDP 7537 or consent of instructor, CSC 2262 or equivalent experience in computer programming. Same as MEDP 7538*.

7741, 7742 Stellar Astrophysics (3,3) F,S *PHYS 7741 is prerequisite for PHYS 7742. See ASTR 7741, 7742.*

7745 Advanced Quantum Theory of Particles and Fields (3) V May be taken for a max. of 9 hrs. of credit.

7751, 7752 Galactic Astrophysics (3,3) F,S *PHYS 7751 is prerequisite for PHYS 7752. See ASTR 7751, 7752.*

7777 Seminar in Astronomy and Astrophysics (1-6) V May be taken for a max. of 6 sem. hrs. of credit. See *ASTR 7777*.

7783 Topics in Astronomy and Astrophysics (3) V May be taken for a max. of 6 hrs. of credit when topics vary. See *ASTR 7783*.

7857 Graduate Student Seminar (1) Pass-fail grading. May be repeated for credit. Introduction to research areas in the department; training for presentation of scientific talks; preparation of research proposals.

7893 Many-Body Theory (3) V Prereq.: *PHYS 7242. Pass-fail grading. May be taken for a max. of 6 hrs. of credit*. Diagrammatic techniques, thermal Green's functions, transport theory, Fermi liquids, collective excitations, phase transitions.

7895 Selected Topics in Advanced Physics (3) V May be repeated for credit. Pass-fail grading.

7896 Current Developments (3) V May be repeated for credit. Pass-fail grading.

7996 Independent Research in Physics (3) V Prereq.: *permission of department*. An approved independent research project in experimental or theoretical physics; final written report and an oral presentation to a faculty committee is required.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

PLANT HEALTH • PLHL

2050 Introduction to Pest Management (4) S Prereq.: *BIOL 1201, 1208 and 1402 or equivalent. 3 hrs. lecture; 3 hrs. lab. Also offered as ENTM 2050*. Recognition and classification of major pests; insects, pathogens, weeds, vertebrates; anatomy and morphology, life cycles, economic importance, and control measures.

3000 Pest Management Internship (3) Su Prereq.: *written consent of advisor. May be taken for a max. of 6 sem. hrs. credit. Also offered as ENTM 3000*. Work experience in an agricultural or urban pest management industry or in a pest management research area culminating in acceptable written reports.

3002 Pest Management Seminar (1) F Prereq.: *PLHL 3000 or ENTM 3000. Also offered as ENTM 3002*. Review and discussion of internship experiences including topics in agricultural pest management and urban entomology; development of professional skills.

3060 Introductory Plant Physiology (4) F Prereq.: BIOL 1202 and 1209; CHEM 2060, 2261, or 2461. 3 hrs. lecture; 3 hrs. lab. Also offered as BIOL 3060. Life processes of plants.

3900 Undergraduate Research in Plant Pathology (1-3) V Prereq.: PLHL 4000 or equivalent and consent of instructor. May not be repeated for credit. Research experience for students contemplating graduate study in plant pathology.

3960 Undergraduate Research in Crop Physiology and Weed Science (1-3) V Prereq.: PLHL 3060 or equivalent and consent of instructor. May be taken for a max. of 6 sem. hrs. of credit. Research experience for students contemplating graduate study in crop physiology or weed science.

4000 General Plant Pathology (3) F Prereq.: BIOL 1201, 1208 and 1402; or equivalent. 2 hrs. lecture; 3 hrs. lab. Nature and cause of disease in plants; relation of environment and host-parasite interactions to development of disease symptoms caused by plant pathogenic fungi, bacteria, viruses, mycoplasmas, and nematodes; abiotic causes of disease; methods of disease control; diseases affecting Louisiana crops and ornamentals.

4001 Plant Disease Management and Control (3) S Prereq.: PLHL 4000 and either CHEM 2060 or 2261. 2 hrs. lecture; 2 hrs. demonstration/lab. Plant disease management and control using cultural practices, disease resistance, biological control, legislation, therapy, pesticides; identity, properties, chemistry, mode of action, toxicity, and application of fungicides, bactericides, and nematocides; evaluation of chemicals for plant disease control.

4002 Special Topics in Agricultural Pest Management (1-3) V Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Lab/field trip may be required. Subjects not covered in other weed science or plant pathology courses.

4018 Forest Insects and Diseases (4) F See ENTM 4018.

4054 Introductory Mycology (4) Prereq.: BIOL 1202 and 1209. 3 hrs. lecture; 3 hrs. lab. Same as BIOL 4054.

4444 Seed Physiology (3) S Prereq.: BIOL 1201, 1208, and 1402 and either CHEM 2060 or 2261. BIOL 3060 recommended. Also offered as BIOL 4444. Introduction to the life processes of seeds: their development, germination, dormancy, ecology, vigor, and viability.

7000 Phytonematology (4) S Prereq.: PLHL 4000. 2 hrs. lecture; 4 hrs. lab. Taxonomy, identification, and control of plant parasitic nematodes.

7010 Plant Molecular Biology (3) V Prereq.: BIOL 3060, 4093 and 4094; or equivalent. Also offered as BIOL 7010. Molecular biology, biochemistry and genetics of higher plants and plant-associated microorganisms; genome organization and structure in nuclei, chloroplasts, and mitochondria; structure and expression of plant genes under control of developmental and environmental signals; plant interactions with pathogenic and symbiotic microorganisms.

7011 Phytobacteriology (4) S-O Prereq.: PLHL 4000, BIOL 2051. 3 hrs. lecture; 3 hrs. lab. Taxonomy, biology, mechanisms of pathogenesis; control of prokaryotic plant pathogens.

7040 Plant Virology (4) F-E Prereq.: PLHL 4000 and PLHL 7063; or equivalent. 2 hrs. lecture; 4 hrs. lab. Viruses as causal agents of plant diseases; biological, chemical, and physiological properties of plant viruses; methods of transmission; host-virus and vector-virus relationship.

7051 Advanced Topics in Plant Pathology (1-4) V Prereq.: consent of instructor. May be taken for a max. of 8 sem. hrs. of credit.

7052 Seminar (1) F,S May be taken for a max. of 3 hrs. of credit for each graduate degree. Topics announced prior to registration.

7061 Plant Growth and Development (3) F Prereq.: BIOL 3060 or PLHL 3060 and BIOL 4093; or equivalent. Also offered as BIOL 7061. Effects of naturally occurring growth substances and environmental conditions on plant growth.

7063 Plant Metabolism (3) S Prereq.: PLHL 3060 or equivalent. Also offered as BIOL 7063. Major metabolic systems of plants and their control.

7065 Transport Processes in Plants (3) S Prereq.: BIOL 3060. Same as BIOL 7065.

7067 Selected Topics in Plant Physiology (2) F Prereq.: consent of instructor. May be repeated for credit. Same as BIOL 7067. Mineral nutrition, metabolism, growth and development, and herbicides.

7068 Current Literature in Plant Physiology (1) F,S May be taken twice for credit in a master's program and twice in a doctoral program. Also offered as BIOL 7068. Critical analysis of recent and classical papers in the field.

7080 Host-Parasite Interaction and Disease Resistance (3) S-E Prereq.: PLHL 4000 and PLHL 7063; or equivalent. 2 hrs. lecture; 2 hrs. lab. Genetics, physiology, and biochemistry of disease development and disease resistance in plants; mechanisms of pathogenicity and infectivity, tumorigenesis, metabolic consequences of infection, nature of disease resistance, and parasitism.

7082 Soilborne Plant Pathogens (3) F Prereq.: PLHL 4000 or equivalent. Physiology, ecology, and pathology of

soilborne plant pathogens; control strategies including cultural, biological, and genetic; disease suppressive soils.

7083 Epidemiology and Crop Loss Assessment (3) S-E Prereq.: PLHL 4000 and 4001 or equivalent. Interactions between pathogen and host populations, and the environment; measurement and prediction of disease spread and increase; disease management strategies; techniques to assess losses due to plant disease.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8800 Practicum in Plant Pathology (2) Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. credit. 1 hr. lecture; 4 hours clinic/practicum. Pass/fail grading. Faculty-supervised experiences in plant pathology research, disease diagnosis, and control.

8900 Special Research Problems (1-5) Prereq.: consent of instructor. May be taken for a max. of 9 sem. hrs. credit. Faculty supervised, independent research other than thesis or dissertation.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

POLITICAL SCIENCE • POLI

General education courses are marked with stars (★).

★ **1001 Fundamental Issues of Politics (3) F,S,Su** Central questions at issue in politics; their significance.

2001 Analyzing Politics and Public Policy (3) Techniques of analysis, logic of empirical research, and the use of simulation.

★ **2030 Civic Engagement, Youth, and Media (3) See MC 2030.**

★ **2051 American Government (3) F,S,Su** An honors course, POLI 2052, is also available. Principles, structures, processes, and functions; emphasis on national government.

★ **2052 HONORS: American Government (3) Same as POLI 2051, with special honors emphasis for qualified students.**

★ **2053 Introduction to Comparative Politics (3) F,S,Su** Survey of politics in democratic, post-communist, and developing societies; emphasis on major actors and institutions.

2056 Government of Louisiana (3) F,S,Su Prereq.: POLI 2051 or equivalent. State and local government and politics in Louisiana.

★ **2057 Introduction to International Politics (3) F,S** Basic principles, problems, and concepts of international politics; evolution and nature of the nation-state; concepts of sovereignty, power, and national interest; patterns of conflict and cooperation; foreign policies of the major powers.

★ **2060 Introduction to Political Theory (3) F,S** Basic concepts of analysis of normative and empirical political thought.

2070 Public Policy Making: An Introduction (3) S Sequential process of policy making from problem identification through policy formulation, adoption, implementation, and evaluation of impact; application to such areas as civil rights, welfare, urban affairs, taxation, and government spending.

3000 HONORS: Thesis (3) Culmination of political science honors program; details available from department.

3809 HONORS: Seminar (3) Students not enrolled in the honors program may be admitted with consent of the instructor. Subject matter and instructor vary. Details available from the department during registration.

3896, 3897 HONORS: Readings Course (1-3,1-3) Same as POLI 4996, 4997, with special honors emphasis for qualified students.

3901 Undergraduate Internship in Political Science (1-6) F,S Open to undergraduate students approved by the Department of Political Science. May be counted toward the total number of hours required for a major in political science but not toward fulfilling field requirements. Program of study, research, and work in governmental or private agencies concerned with public policy.

3909 Contemporary Political Issues (3) For undergraduate political science or other social sciences majors having a 2.70 overall average; also open to well-qualified students in other fields, by consent of department. May be repeated for credit when topics vary. Course content depends on interests of instructor and class.

4000 Special Topics in American Politics (3) F,S,Su Prereq.: consent of department. May be repeated for a max. of 6 sem. hrs. credit when topics vary.

4001 Research Methods in Political Science (3) F, S, Su Basic components of the research process in political science, including design and structure of research, modes of observation, and techniques of analyzing data.

4011 Bureaucracy, Politics, and Public Policy (3) S Prereq.: POLI 2051. Interrelationships between bureaucracy and politics in formulation and execution of public policy; forces and forms affecting these relationships.

4014 Budgetary Process and Policy Making (3) Prereq.: POLI 2051 or equivalent. Budgeting by public agencies; impact of political actors, institutions, and processes on budgetary policies at the national, state, and local levels of government.

4015 American State Politics and Policy Making (3) S Prereq.: POLI 2051 or equivalent. Politics and policy making in the American states; legal, cultural, socio-economic, political, and institutional factors affecting the formulation, implementation, and evaluation of American state public policies.

4018 Urban Politics and Policy Making (3) F Prereq.: POLI 2051 or equivalent. Political problems in urban governance: the political environment of American cities, private sources of power, political machines and reform, crime and violence, service delivery, metropolitan fragmentation, and the consequences of growth and decay; public policy approaches to complex urban problems.

4020 American Constitutional Law (3) F Prereq.: POLI 2051 or equivalent. Law of the Constitution and place of the Supreme Court in the American political system; separation of powers, judicial review, federalism, and federal powers.

4021 The American Constitution and Civil Liberties (3) S Prereq.: POLI 2051 or equivalent. Political relevance of major federal constitutional limitations; property rights; First Amendment freedoms; rights of criminal defendants and ethnic minorities.

4022 Jurisprudence (3) S Prereq.: POLI 2051 or equivalent. Legal philosophies of natural law, positivism, idealism, sociological jurisprudence, and legal realism; relationships of law, morals, and political order.

4023 Judicial Politics (3) F Prereq.: POLI 2051. Political role of U.S. state and federal courts; organization, staffing, financing; judicial policy making; public perception of the judicial process.

4026 Campaigns and Elections (3) Prereq.: POLI 2051 or equivalent. Examination of campaigns and elections in the U.S. political system at the national, state, and local levels.

4027 Politics of Sexual Diversity (3) Prereq.: POLI 2051 or equivalent. The political meanings of sexual identity; evolution of lesbian and gay social movements and of political organizations that favor and oppose the expansion of gay rights; law, public opinion and policy-making regarding sexual diversity.

4028 Gender and American Politics (3) Also offered as WGS 4028. The role of gender in the political arena in the United States.

4030 Political Attitudes and Public Opinion (3) V Beliefs and attitudes among the mass public; emphasis on attitude formation and change.

4031 Political Parties in the United States (3) F Structure and function of political parties at local, state, and national levels; voting studies of presidential elections.

4032 Interest Groups in American Politics (3) V Interest group politics; effect of voluntary organizations on political behavior.

4034 Political Participation (3) V Voting behavior, conventional participation, and political protest and violence; political behavior and public policy.

4035 The Legislative Process (3) F Prereq.: POLI 2051 or equivalent. Legislative politics; emphasis on the U.S. Congress; effect of party, constituency, and legislative institutions on legislative behavior and public policy; role of Congress in the American political system.

4036 The American Presidency (3) V Prereq.: POLI 2051 or equivalent. The presidency in the American political system; emphasis on process of presidential selection, evolving role of the president, politics of the executive apparatus of the presidency, and presidential interaction with other political institutions and actors.

4038 Blacks and the American Political System (3) V Prereq.: POLI 2051. Interaction of blacks with the American political system since World War II; political resources available to blacks; responses of national institutions and leaders to black aspirations.

4039 Southern Politics (3) V Contemporary politics of the American South.

4040 Special Topics in International Relations (3) F,S,Su Prereq.: consent of department. May be repeated for a max. of 6 sem. hrs. credit when topics vary.

4041 International Law (3) V Prereq.: POLI 2057 or equivalent. Development of international law; law of peace, war, and neutrality; treaty law; recognition, war crimes, law enforcement, state responsibility, and diplomatic immunities under the United Nations.

4042 International Organization (3) V Origins, development, and future of international organization; emphasis on the United Nations.

4043 American Foreign Policy (3) F "National interest" as guiding consideration in development of American foreign policy from the beginning to the present; importance of the constitutional framework; presidential and congressional

leadership; pressure groups and public opinion; changing world environment and American response.

4044 The Contemporary International System (3) V Prereq.: POLI 2057 or equivalent. Developments and trends in the international system since World War II; classical and modern versions of the balance of power; bipolarity, multipolarity, and other elements of systems theory; concept of deterrence and game theory; decision making theory; integration theory; conflict and conflict-resolution theory.

4046 International Political Economy (3) Prereq.: POLI 2057 or equivalent. Theories of international interdependence, dependence, and integration; politics of decision making on protectionism and international finance; role of multinational corporations in world political economy; North-South debate; economic issues and national security.

4047 Political Psychology in International Relations (3) F,S,Su Cognitive personality and group psychology in international relations.

4048 International Conflict and Cooperation (3) F,S,Su Theories of international conflict, war, and conflict resolution.

4049 Global Environmental Politics (3) F,S,Su Political and economic factors affecting the global environment.

4050 Globalization and Politics (3) Prereq.: POLI 2057 or equivalent. Overview of the concepts, theories, and empirical evidence associated with the emerging phenomenon known as globalization, with particular emphasis on its political, economic, and cultural dimensions.

4059 International Politics of the Middle East (3) F International relations among Middle Eastern countries, with special emphasis on the Arab-Israeli conflict, international terrorism, and U.S. policy toward the region.

4060 Special Topics in Comparative Politics (3) F, S, Su Prereq.: consent of department. May be taken for a max. of 6 sem. hrs. of credit when topics vary.

4061 Comparative Politics of the Middle East (3) S Government and politics of Middle Eastern countries, with special emphasis on political institutions and processes, the role of Islam, and women's conditions.

4062 Comparative Political Economy (3) Credit will not be given for both this course and POLI 7976. Cross-regional comparison on the interaction between politics and economics; topics include electoral business cycles, foreign trade, foreign investment, industrial policy, and the environment.

4063 Comparative Political Institutions (3) F,S,Su Credit will not be given for both this course and POLI 7972.

Comparative analysis of political institutions; emphasis on constitutional design, electoral and party systems, legislatures and cabinets, and parliamentary and presidential structures.

4064 Comparative Politics of Developing Areas (3) V Problems of development confronted by contemporary states and societies of the Third World; emphasis on role of ethnic pluralism, political parties, bureaucracies, and the military.

4065 Latin American Governments and Politics (3) F Governmental and political processes of Latin America; their contributions to modern government.

4067 The Politics of Asia (3) F Governments and politics of modern Asia, with a focus on China; contemporary nationalism, political development, revolution, and impact of communism, democracy, and capitalism on Asian states.

4070 Russian Politics and Government (3) Contemporary political institutions and policies of Russia; influence of internal forces, such as culture, ideology, and social structure; political economic, and social problems and policies.

4072 Politics and Government of East Central Europe (3) F Political systems of the former communist states of Eastern Europe; domestic institutions and policies; legacies of communism; political parties and elections.

4074 Politics of the European Union (3) V The political, social, legal, and economic unification of Europe.

4075 Politics of Western Europe (3) National political systems of Western Europe.

4076 The Politics of France and Francophone Areas (3) The political development, institution, and culture of the French Republic and selected Francophone areas.

4078 African Government and Politics (3) F,S,Su

Governmental and political processes of Africa; factors affecting governmental performance in modern Africa.

4079 State, Society, and Citizenship in Contemporary China (3) Political events in contemporary China; emphasis on the state and the citizen in the Reform Era.

4080 American Political Thought (3) V Development of the American liberal-democratic tradition, and dissent to that tradition.

4081 History of Political Theory from Plato to More (3) F Ancient and medieval political thought.

4082 History of Political Theory from Machiavelli to Nietzsche (3) S Early modern European political thought.

4090 Special Topics in Political Theory (3) F,S,Su Prereq.: consent of department. May be repeated for a max. of 6 sem. hrs. credit when topics vary.

4096 Contemporary Political Theory (3) S Political thought from Nietzsche to present.

4097 Political Theory (3) Also offered as REL 4097. An exploration of the relationship between theory and politics, from the ancient Greeks and Hebrews to contemporary political theologians; emphasis on the Judeo-Christian tradition, but the political theology of other religious traditions, such as Islam, Hinduism, and Confucianism, may be included.

4098 Politics and Ethics (3) Also offered as PHIL 4098. Ethical theory and its application to politics, domestic and international; ethical issues of public policy and conduct will be examined.

4234 Studies in Literature and Politics (3) See ENGL 4234.

4996, 4997 Readings Course (1-3,1-3) Prereq.: consent of department. Honors courses, POLI 3896 and 3897, are also available. For junior, senior, and graduate students in the social sciences with a 3.00 average. Individual reading in a specified field of political science.

7000 Professional Development (1) F Pass-fail grading. Political scientist as teacher, researcher, citizen.

7900 Seminar in American Politics (3) V May be taken for a max. of 6 hrs. of credit when topics vary.

7901 Graduate Internship in Political Science (1-6) F,S Open only to graduate students approved by the Department of Political Science and accepted by a recognized internship program. May be counted toward total number of hours required in the MA program but not toward field requirements. Research and work in governmental or private agencies concerned with public policy.

7902 Seminar in Public Policy (3) Also offered as PADM 7902.

7903 Special Topics in American Politics (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary.

7915 Seminar in State Politics and Policy Making (3)

7917 Program Evaluation (3) See PADM 7917.

7918 Seminar in Urban Politics and Policy Making (3)

7920 Seminar in Public Law (3) V May be taken for a max. of 6 hrs. of credit when topics vary.

7930 Seminar in Political Behavior (3) May be taken for a max. of 6 hrs. of credit when topics vary.

7931 Seminar in Political Parties (3) V May be taken for a max. of 6 hrs. of credit when topics vary.

7935 Seminar in Legislative Politics (3) V May be taken for a max. of 6 hrs. of credit when topics vary.

7936 Seminar in Executive Politics (3)

7940 Seminar in International Politics (3) V May be taken for a max. of 6 hrs. of credit when topics vary.

7941 Special Topics in International Politics (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary.

7942 Seminar in Political Psychology in International Relations (3) Advanced study of cognitive, personality, group, and identity psychology in international relations.

7943 Seminar in the American Foreign Policy Process (3)

7946 Seminar in the Politics of International Economic Relations (3) May be taken for a max. of 6 hrs. of credit when topics vary.

7947 International Conflict (3) Democratic peace, international terrorism, civil war, diversionary war, and enduring rivalries, as well as current debates in the literature.

7961 Approaches to the Study of Politics (3) F

7962 Seminar in Research Design and Quantitative Techniques (3) S

7963 Advanced Research Methods in Social Science (3) See SOCL 7203.

7964 Specialized Topics in Social Science Methods (2-3) See SOCL 7213.

7970 Seminar in Comparative Politics (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary.

7971 Special Topics in Comparative Politics (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary.

7972 Seminar in Comparative Political Institutions (3) V Credit will not be given for both this course and POLI 4063.

Advanced analysis of comparative political institutions, emphasis on constitutional design, electoral and party systems, legislatures and cabinets, and parliamentary and presidential structures.

7974 Seminar on the State and Society (3) Focus on relations between the state and society; effects of social structure and social change on politics and the factors affecting political regimes and state capacity.

7975 Seminar in Comparative Political Behavior (3) V Focus on individual level political phenomena and the relations to political institutions and social systems; topics include political culture and socialization, participation and protest, revolution and regime support, voting and voting behavior.

7976 Seminar in Comparative Political Economy (3) V Credit will not be given for both this course and POLI 4062.

May be taken for a max. of 6 sem. hrs. of credit when topics vary. Focus on the interaction between politics and economics; topics include models of development, economic

performance, and the impact of global economic forces on regional and domestic politics.

7980 Seminar in American Political Thought (3) V May be taken for a max. of 6 hrs. of credit when topics vary.

7981 Seminar in Classical and Medieval Political Theory (3) May be taken for a max. of 6 hrs. of credit when topics vary.

7982 Seminar in Early Modern Political Theory (3)

7984 Seminar in Analytical and Empirical Political Theory (3)

7990 Political Theory: Interpretation and Analysis (3)

7991 Special Topics in Political Theory (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary.

7995 Seminar in Contemporary Political Theory (3) V May be taken for a max. of 6 hrs. of credit when topics vary.

7998, 7999 Readings Course (3,3) May be taken for a max. of 6 hrs. of credit when topics vary.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

PORTUGUESE • PORT

Native speakers of Portuguese will not receive credit for courses marked with an asterisk (*).

General education courses are marked with stars (★).

***1101 Beginning Portuguese (4)** Development of basic language skills through oral and written exercises and reading texts; emphasis on communicative competence.

★ *1102 Beginning Portuguese (4) Prereq.: PORT 1101 or consent of instructor. Development of listening, speaking, reading, and writing skills; emphasis on Brazilian culture.

★ *2101 Intermediate Portuguese (4) Prereq.: PORT 1102 or equivalent. Continuation of PORT 1102. Additional emphasis on reading and writing.

★ *2102 Intermediate Portuguese (4) Prereq.: PORT 2101 or equivalent. Continuing development of listening, speaking, writing, and reading skills.

POULTRY SCIENCE • PLSC

1049 Poultry Science and Production (3) F,S Principles and practices of commercial poultry production.

2040 Techniques of Judging and Evaluating Poultry and Poultry Products (2) F,S 4 hrs. lab. May be taken for a max. of 4 hrs. of credit when topics vary. Principles and techniques in evaluation of poultry and poultry products.

3001 Apprenticeship in the Poultry Industry (3-6) V

Prereq.: junior standing with an overall gpa of 2.50 on all work taken at LSU; consent of department head and industry cooperator. May be taken for a max. of 12 sem. hrs. of credit. Pass-fail grading. Supervised work in egg processing, broiler processing, feed manufacturing, hatchery management, or flock supervision for a period of not less than two months.

3900 Poultry Research (1-3) F,S,Su Prereq.: consent of department. May be taken for a max. of 6 sem. hrs. of credit.

Feeding, breeding, management, and marketing problems.

4031 Incubation and Hatchery Management (2) F-O

Prereq.: 6 sem. hrs. of biological science or equivalent. 1 hr. lecture; 2 hrs. lab. Chick development and embryology; incubation principles and practices; hatchery equipment and design; hatchery management.

4032 Science and Technology of Poultry Products (3) S

Prereq.: BIOL 1001, 1002, or equivalent and PLSC 1049 or higher. 2 hrs. lecture; 2 hrs. lab. Preparation of eggs and poultry for market; methods of maintaining quality during harvesting, processing, grading, and packaging of poultry meat and eggs.

4040 Quality Assurance in the Food Industry (4) See DARY 4040.

4051 Poultry Biology (3) F 2 hrs. lecture; 2 hrs. lab. Structure, conformation, and selection of fowl; emphasis on egg formation and oviposition; other physiological factors of economic importance.

4052 Poultry Management (3) S-E Prereq.: 6 sem. hrs. of biological science or equivalent. 2 hrs. lecture; 2 hrs. lab. Growth and development of the U.S. commercial egg and broiler industries; principles of nutrition, genetics, housing, management, and marketing; types of integrated operations and contract production.

4900 Special Topics in Poultry Science (1-3) Prereq.: consent of department. May be taken for a max. of 6 hrs. of credit when topics vary. Topics from current poultry production or poultry products areas.

7091 Poultry Seminar (1) F,S May be taken for a max. of 4 hrs. of credit during period of graduate study. Graduate students in poultry science must participate in a report and discussion group on current literature in their fields.

7900 Advanced Poultry Research (1-5) F,S,Su Prereq.: consent of department. May be taken for a max. of 9 sem. hrs. credit. Research in poultry nutrition, breeding, production, and market products.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

PSYCHOLOGY • PSYC

General education courses are marked with stars (★).

★ **2000 Introduction to Psychology (3)** An honors course, PSYC 2001, is also available. Understanding, prediction, and control of human behavior.

★ **2001 HONORS: Introduction to Psychology (3)** Same as PSYC 2000, with special honors emphasis for qualified students.

2004 Psychology of Adjustment (3) Adjustment mechanisms in normal adults; abnormal behavior and major personality theories.

2011 General Statistics (3) Prereq.: eligibility for MATH 1021. LSU and overall gpa of at least 2.50. Open to psychology majors; open to others with permission of instructor. Machine computation and elementary theory relating to basic statistical techniques; normal distribution, descriptive statistics, statistical inference, product moment correlation, simple rank order correlation, t test, and simple analysis of variance.

2017 Research Methods in Psychology (4) Prereq.: PSYC 2011 or EXST 2201 or equivalent. PSYC 2017 may not be taken concurrently with either PSYC 2011 or EXST 2201. 3 hrs. lecture; 2 hrs. lab. Senior college standing required. LSU and overall gpa of at least 2.50. Open to psychology majors; open to others with permission of instructor. Techniques and logic underlying standard research methodology in psychology, with special emphasis on experimentation, literature research, and writing empirical reports.

2040 Social Psychology (3) Prereq.: 3 sem. hrs. of psychology or sociology. Cultural forces affecting attitudes, social learning, perception, and communication of individuals and groups.

2060 Educational Psychology (3) Principles of learning, motivation, development, and evaluation as related to the educative process.

2070 Developmental Psychology of the Life Span (3) Prereq.: PSYC 2000 or equivalent. Survey of developmental processes across the life span.

2076 Child Psychology (3) Prereq.: PSYC 2000 or 2060 or equivalent. Psychological and social development of the child.

2078 Adolescent Psychology (3) Prereq.: PSYC 2000 or 2060 or equivalent. Adolescent behavior considered in terms of psychological, social, and physical development.

2999 Undergraduate Practicum in Psychology (1-3) Prereq.: PSYC 2000 or 2060, and consent of instructor; LSU and overall gpa of at least 2.50. May be taken for a max. of 3 sem. hrs. of credit. Student responsible for registering with a faculty member. Individually supervised experience in psychological laboratories and community agencies.

3018 Advanced Experimental Psychology (3) Prereq.: PSYC 2017 or equivalent. 2 hrs. lecture; 2 hrs. lab. Supervised research in general experimental psychology; selection, design, execution, analysis, and reporting of the psychological experiment.

3020 Psychological Tests and Measurements (3) Prereq.: PSYC 2000 or 2001 and a first course in statistics. Test construction, standardization, validation; intelligence, clerical, mechanical, spatial aptitude tests; interest and personality tests; test batteries.

3030 Cognitive Psychology (3) Prereq.: PSYC 2000 or 2001. A survey of the psychological approaches to understanding cognition. Topics include the processes and brain mechanisms involved in perception and attention, imagery, memory, language, creativity, problem solving, reasoning, and decision making.

3050 Introduction to Personnel and Industrial Psychology (3) Prereq.: PSYC 2000 or 2001. Organizational psychology, leadership, job satisfaction, motivation; human relations psychology; human engineering psychology; personnel psychology; industrial, military, and governmental selection, testing, and interviewing; consumer psychology.

3081 Personality (3) Prereq.: PSYC 2000 or 2060 or equivalent. Determinants and dynamics of personality; theory and research.

3082 Introduction to Abnormal Psychology (3) Prereq.: PSYC 2000 or 2060 or equivalent. Abnormal personality and behavior disorders.

3083 Psychological Counseling (3) Prereq.: PSYC 2000 or 2060, and 2004. Concepts of psychological treatment in adjustment problems.

3140 Advanced Social Psychology (3) Prereq.: PSYC 2040 or equivalent. Current theories of socialization; existing methodologies and interdisciplinary influences.

3201 Psychological Theories of Religion (3) See REL 3201.

4008 History of Modern Psychology (3) Prereq.: PSYC 2000 or 2001 and 6 additional hrs. of psychology; LSU and overall gpa of at least 2.50. Open to psychology majors; open to other matriculated students with permission of instructor. Historical survey of psychology, with reference to schools of psychology.

4017 Intermediate Research Methods (3) See SOCL 4211.

4030 Psychology of Thinking and Decision Making (3) Prereq.: PSYC 2000 or 2060. Experimental methods and research findings on human thinking, decision making, comprehension, choice behavior, and problem solving.

4031 Sensory and Perceptual Processes (3) Prereq.: PSYC 2000 and 2017; or equivalent. Theories, data, and procedures in sensation and perception.

4032 Psychology of Learning (3) Prereq.: PSYC 2000 or 2001. Behavior from the standpoint of learning; recent experimental literature in the learning area; major theories of learning.

4033 Psychology of Memory and Forgetting (3) Prereq.: PSYC 2000 or 2001. Major theoretical concepts; review of experimental literature in the field of memory and forgetting.

4034 Physiological Psychology (3) Prereq.: PSYC 2000 or 2060; or equivalent. Functioning of the nervous system with respect to sensation, perception, learning, and motivation.

4035 Drugs, the Brain and Behavior (3) Prereq.: PSYC 2000 or consent of instructor. Modes of action of drugs on the brain, and behavioral effects of therapeutic drugs and drugs of abuse.

4036 Comparative Psychology (3) Prereq.: PSYC 2000 or 2001. Behavioral development across species with reference to evolutionary and genetic factors relevant to understanding human behavior.

4037 Neuropharmacology (3) Prereq.: PSYC 2000 or 2001. Primarily for students in psychology and basic sciences.

Basic pharmacology; neurochemical and physiological mechanisms of drug actions on the nervous system; pharmacology of drugs of abuse and psychiatric medications.

4038 Emotion and Motivation (3) Prereq.: PSYC 2000 or equivalent. Experimental procedures, data, and theories in emotion and motivation; physiological relationships.

4039 Madness and Medicine (3) Prereq.: PSYC 2000 or 2001. The history of medical treatments for mental disorders.

4040 Research and Theory in Sexuality (3) Prereq.: PSYC 2000 or 2060 and one additional course in psychology; or KIN 2600. Sexual behavior viewed from different theoretical perspectives; emphasis on empirical sexual research literature.

4050 Advanced Industrial/Organizational Psychology (3) Prereq.: PSYC 2000 and 3050 or equivalent. Research, theory, and applications in industrial/organizational psychology; focus on psychological assessment of job candidates; testing; learning applied to organizational training; emotion, motivation, social processes, cognition in the job setting, and leadership.

4070 Developmental Psychology (3) Prereq.: PSYC 2000 or 2001. Theories of development, contemporary issues, and research findings at successive ages of human development; psychological changes throughout the lifespan.

4072 Developmental Psychology of Adulthood and Aging (3) Prereq.: PSYC 2000 or 2060. Theories, issues, and research findings on psychological changes occurring throughout adulthood and later life.

4080 Applied Behavior Analysis (3) Prereq.: PSYC 4032 or graduate standing. Methods, analysis, and intervention in the application of basic learning principles; emphasis on school applications.

4111 Intermediate Statistics (3) Prereq.: PSYC 2000 or 2001 and EXST 2201 or equivalent. LSU and overall gpa of at least 2.50. Preparatory for graduate study in statistics and research design in psychology. Open to psychology majors; open to other students with permission of instructor.

Emphasis on inferential statistics and hypothesis testing; familiarization with common statistical analysis software and interpretation of output; major topics include simple and factorial analysis of variance, linear and multiple correlation and regression.

4160 Advanced Educational Psychology (3) Prereq.: PSYC 2000 or 2001 and 3 additional hrs. of psychology. Psychological theory and research as applied to the teaching-learning process.

4176 Advanced Child Psychology (3) Prereq.: PSYC 2000 or 2001 and 3 additional hrs. of psychology. Psychological theories of child development, child behavior, and research methodology.

4178 Advanced Adolescent Psychology (3) Prereq.: PSYC 2000 or 2001 and 3 additional hrs. of psychology. Psychological theories of adolescent behavior and problems.

4999 Independent Reading and Research in Psychology (1-6) Prereq.: LSU and overall gpa of at least 2.50 and consent of instructor. May be taken for a max. of 6 sem. hrs. credit. Open to seniors and graduate students. Student

responsible for registering with a faculty member and selecting an area of reading or research.

7020 Measurement of Behavior (3) Prereq.: PSYC 4111 or equivalent; graduate standing in psychology or consent of instructor. Techniques and theories of behavior measurement; problems of data collection; reliability, validity, design, and analysis of measurement instruments for the psychological sciences.

7030 Cognitive Basis of Behavior (3) Prereq.: graduate standing in psychology or other matriculated graduate students with consent of instructor. Cognitive processes involved in memory, language, decision making; role of cognitive variables in controlling behavior.

7034 Biological Basis of Behavior (3) Prereq.: graduate standing in psychology or other matriculated graduate students with consent of instructor. Selected biological systems involved in mediation of behavior.

7040 Social Basis of Behavior (3) Prereq.: graduate standing in psychology or other matriculated graduate students with consent of instructor. Social, organizational, and cultural influences on human behavior; research in social and organizational psychology.

7060 Ethical, Legal, and Professional Issues in School Psychology (3) Prereq.: graduate standing in psychology or consent of instructor. Roles and functions of the school psychologist; ethical considerations across diverse roles and settings; legal bases for the practice of school psychology and students' rights; currently accepted standards for the credentialing of school psychologists and standards for practice.

7111 Advanced Statistics (3) Prereq.: PSYC 4111 or equivalent; graduate standing in psychology or consent of instructor. Machine calculation, coding, measures of centrality and variation, regression, correlation, prediction, probability, statistical inference, analysis of variance, multivariate techniques for the psychological sciences.

7117 Methodology and Research Design (3) Prereq.: PSYC 4111 or 7111; graduate standing in psychology or consent of instructor. Scientific approach to psychological questions, research, design, and methodology; logic and philosophy underlying psychological theory and research; social psychology of the psychological experiment; experimental and quasi-experimental designs; problems in observation and measurement of behavioral variables; methodological and philosophical considerations in analysis of data.

7125 Psychological Assessment I (3) Prereq.: graduate standing in clinical or school psychology or consent of instructor. Clinical assessment techniques including individual tests of intelligence, mental status examination, interviewing, and behavioral assessment; procedures for both children and adults.

7165 Psychoeducational Assessment (3) Prereq.: graduate standing in clinical or school psychology or consent of instructor. Instruction and practicum in administration and interpretation of individually administered intellectual assessment measures and diagnostic achievement techniques.

7166 Nonbiased Assessment in the Schools (3) Prereq.: PSYC 7165 or equivalent; graduate standing in clinical or school psychology or consent of instructor. Methods and problems in psychological assessment including theory and research on test bias; alternatives to standardized tests.

7171 Developmental Disorders and Psychopathology of Children (3) Prereq.: graduate standing in clinical or school psychology or consent of instructor. Theories, research, and contemporary issues related to normal and problem behaviors of children.

7185 Behavior Therapy (3) Prereq.: graduate standing in clinical or school psychology or consent of instructor. Modern treatment and assessment procedures based on learning theories; behavioral analysis and theoretical orientations as applied to a wide variety of clinical disorders.

7640, 7641 Practicum in Social-Industrial Psychology (1-6,1-6) Prereq.: consent of instructor. Each course may be taken for a max. of 9 sem. hrs. of credit. Supervised experience in social-industrial psychology.

7660 School Psychological Consultation (3) Prereq.: graduate standing in psychology or consent of instructor. Instruction and practicum that provide psychological consultation on short-term behavior and academic problems for teachers and other school personnel.

7668, 7669 Practicum in School Psychology (1-6,1-6) Prereq.: admission to doctoral program in school psychology. Each course may be taken for a max. of 6 sem. hrs. of credit. Pass-fail grading. Closely supervised experience in schools in which students perform psychoeducational assessments, consult with teachers, and function as members of multidisciplinary teams; cases include children with specific learning disabilities, behavior disorders, and mental retardation.

7670, 7671 Practicum in Developmental Psychology (1-6 each) Prereq.: consent of instructor. May be taken for a max. of 9 sem. hrs. of credit. Supervised experience in developmental psychology.

7688, 7689 Practicum in Clinical Psychology (1-3,1-3) Prereq.: consent of instructor and enrollment in clinical psychology training program. 12 sem. hrs. are required.

Supervised experience in the application of clinical psychological assessment and intervention techniques with behaviorally disordered populations (adult, child, medical).

7690 Teaching of Psychology Practicum (1-3) Prereq.: PSYC 7990. Course may be taken for a max. of 4 sem. hrs. of credit. Closely supervised experience in teaching in which students will function as the instructor of record for an undergraduate course in the Psychology department; objectives include enhanced teaching skills and the development of a philosophy of teaching.

7754 Psycholinguistics: Linguistic Perspectives (3) Prereq.: ENGL 4010. See COMD 7754. Also offered as LING 7754.

7925 Psychological Assessment II (3) Prereq.: PSYC 7125 or equivalent; graduate standing in clinical psychology or consent of instructor. Administration and interpretation of objective and projective tests of personality and psychopathology; neuropsychological assessment techniques.

7926 Advanced Personality Diagnosis (3) Prereq.: PSYC 7925 or equivalent; graduate standing in clinical psychology or consent of instructor. Interpretation of assessment techniques; practice in determining differential diagnosis; treatment planning based on assessment techniques.

7927 Psychotherapy and Behavior Change (3) Prereq.: graduate standing in clinical psychology or consent of instructor. Theoretical and empirical considerations relevant to psychoanalytic, humanistic, behavioral, and cognitive-behavioral approaches for treating disordered behavior.

7928 Advanced Techniques in Adult Clinical Psychology (3) Prereq.: graduate standing in clinical psychology and PSYC 7125, 7185, 7927, and 7982; or consent of instructor.

Common assessment methods and empirically supported treatment procedures for the major adult behavior disorders.

7929 Cultural Diversity Issues in Counseling and Therapy (3) Prereq.: graduate standing in clinical psychology or consent of instructor. Issues of individual and cultural diversity training including definitions of multicultural counseling, historical perspectives, various theories and critical/ethical issues regarding counseling of diverse populations. Practical strategies of service delivery and current research will be reviewed.

7937 Seminar in Behavioral Neurology (3) Prereq.: graduate standing in clinical psychology or consent of instructor. Neuroanatomy of central nervous system and behavioral assessment techniques; neuropathology and diagnostic criteria.

7938, 7939 Seminar in Experimental Psychology (3,3) Each course may be taken for a max. of 12 hrs. of credit when topics vary.

7946 Theories and Concepts of Behavior Analysis (3) Prereq.: graduate standing in psychology or consent of instructor.

This seminar is designed to provide a survey of the theoretical and experimental foundations of the practice of applied behavior analysis. Readings are selected to enhance students' understanding of the basic principles of learning and behavior, to highlight areas of basic-oriented research which have been useful in the development of applied practices, and to identify areas which may be capable of informing applied practice, but for which research has not yet bridged the gap.

7948 Research Methodology and Application in Behavior Analysis (3) Prereq.: graduate standing in psychology or consent of instructor.

Examination of the methods and procedures used in applied behavior analytic practice and research with a focus on direct observation of behavior, behavioral assessment, and intervention. Emphasis on clinical and school applications.

7949 Behavioral Perspectives on Child and Adolescent Development (3) Prereq.: graduate standing in psychology or consent of instructor.

Examination of the behavioral processes and environmental influences associated with typical and atypical child development. Emphasis on verbal, motor, social, perceptual, and cognitive development from the behavior analytic perspective.

7950 Industrial/Organizational Psychology Internship (3 or 6) Prereq.: completion of general examination. May be taken for a max. of 12 sem. hrs. of credit. Open only to graduate students nominated by the Department of Psychology and accepted by an approved internship organization.

Pass-fail grading. Supervised experience in an organization in the application of personnel and organizational psychology principles.

7958, 7959 Current Problems in Industrial Psychology (3,3) Prereq.: consent of instructor. Each course may be

taken for a max. of 12 hrs. of credit when topics vary.

7968 Current Problems in School Psychology (3) Prereq.: graduate standing in school psychology program or consent of instructor. Research and methodological issues in school psychology; topics vary.

7969 Internship in School Psychology (1-6) Prereq.: satisfactory completion of the general and language examinations and faculty approval. May be taken for a max. of 12 sem. hrs. of credit. One full academic year of supervised internship that is no less than 1,200 hours, half of which must be in a school setting; internship requirement may be fulfilled by completing one full academic year or two years of one-half time internship experience; at least one hour per week is devoted to direct supervision of each intern. Pass-fail grading.

7971 Advanced Techniques in Clinical Child Psychology (3) Prereq.: PSYC 7125, 7171, and 7925; graduate standing in clinical or school psychology or consent of instructor.

Theory and principles of assessment and intervention in childhood psychopathology.

7972 Child Behavior Therapy (3) Prereq.: PSYC 7171 or equivalent; graduate standing in clinical or school psychology or consent of instructor. Behavioral treatment of children's behavior problems.

7973 School-Based Psychological Interventions (3)

Prereq.: graduate standing in psychology. Survey of intervention strategies for various disorders and behavior problems displayed by children in school settings.

7978, 7979 Current Problems in Developmental Psychology (3,3) Prereq.: consent of instructor. Each course may be taken for a max. of 12 hrs. of credit when topics vary.

7982 Advanced Psychopathology (3) Prereq.: PSYC graduate standing in clinical or school psychology or consent of instructor. Theories of psychopathology, specific etiological hypotheses, and pertinent research evidence.

7983 Biological Variables in Psychopathology (3) Prereq.: PSYC 4034 or equivalent; graduate standing in clinical or school psychology or consent of instructor. Biological variables in major mental disorders; psychological variables in physical disorders.

7984 Special Topics in Advanced Techniques in Behavioral Medicine (3) Prereq.: PSYC 7185; or consent of instructor. May be taken for a max. of 12 hrs. of credit when topics vary.

Assessment and treatment procedures used by behavioral clinicians in medical settings; issues in medical consultation and liaison.

7988, 7989 Current Problems in Clinical Psychology (3,3) Prereq.: graduate standing in clinical psychology or consent of instructor. Each course may be taken for a max. of 6 hrs. of credit when topics vary.

Research and methodological issues.

7990 Teaching of Psychology (3) Prereq.: graduate standing in psychology. Required of all doctoral candidates to become instructor of record in the department. Philosophy, theory, and practice in higher education with application to undergraduate instruction in psychology.

7997 Clinical Psychology Internship (3 or 6) Prereq.: completion of course work and general examination. Open only to graduate students nominated by the Department of Psychology and accepted by an approved internship program.

May be taken for a max. of 15 sem. hrs. of credit. Supervised evaluation and treatment of individuals manifesting mental disorders.

7999 Professional Considerations in Psychology (3) Prereq.: graduate standing in psychology. Required of all clinical and school doctoral candidates. Professional ethics, practice, and responsibility.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8939 to 8999 Independent Research (1-6 each) Prereq.: consent of instructor. Each course may be repeated for credit; a max. of 15 sem. hrs. in this series is allowed toward doctoral requirements. Pass-fail grading. Depending on the area of independent research, students register for research in:

8939 Experimental Psychology

8949 Social Psychology

8959 Industrial Psychology

8979 Developmental Psychology

8989 Clinical Psychology

8999 Personality Psychology

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

PUBLIC ADMINISTRATION • PADM

5010 Statistical Methods for Public Administration (3) Prereq.: college algebra. 2 hrs. lecture; 2 hrs. lab. Open only to students in the MPA program. Also offered as ISDS 5010.

Descriptive measures for populations and samples; basic probability theory; distributions of discrete and continuous random variables; hypothesis testing and estimation for means, variances, and proportions; measures of association; regression analysis; index numbers; applications in public administration.

5600 Microeconomic Theory for Policy Analysis (3) Open only to students in the MPA program or by consent of instructor. Also offered as ECON 5600. Concepts and analytical tools of microeconomics; their relevance for decision and policy making in public and nonprofit sectors; theories of demand, production, cost, market structures, and distribution; analysis of economic problems and policies, efficiency criteria, social impacts, and limitations of the market system.

7010 Decision Models for Public Administration (3) Open only to students in the MPA program. Also offered as ISDS 7010. Models for decision making under conditions of certainty, risk, and uncertainty; statistical decision making with and without sample information; linear programming using graphical and simplex methods;

transportation and assignment problems; project management using PERT and CPM; forecasting models; cost benefit analysis; current topics in public administration.

7610 Healthcare Organization and Finance (3) Overview of effective management of healthcare organizations, including understanding of their historical development and future opportunities; current issues relating to financing, regulation, reimbursement, managed care systems, and system integration.

7620 Strategic Management of Healthcare Organizations (3) Cross-listed with MGT 7620. Strategic planning and development of healthcare organizations focusing on long-term viability; integration of financial decisions with organizational goals and consumer health.

7640 Legal and Ethical Issues in Health Care Management (3) Legal and ethical issues in the delivery of health care including patients' rights, organizational responsibilities, malpractice issues, relationships among patient, providers and insurers, governmental influence in health care management, patient-provider relationships, advancing technology and medical alternatives, working with limited resources, and organizational efforts to deal with ethical issues.

7710 Public Financial Management (3) Cross-listed as FIN 7710. Financial management of public agencies, including sources of financing for different levels of governments, debt financing, and capital budgeting, as well as other related topics.

7800 Independent Study in Public Administration (3) Prereq.: at least 15 credit hours of graduate work; prior written approval of faculty supervising work. May be taken for a max. of 6 hrs. of credit. Independent study by MPA student.

7850 Public Administration Internship (3) Prereq.: at least 15 credit hours of graduate work completed and approval of the Director of the MPA program. Required of all pre-service MPA students. Work within a federal, state, or local government unit, nonprofit or private concern interfacing with the public sector; regular meetings with faculty; submission of a research report to the faculty member; internship is designed to connect academic and professional training to actual work experience.

7851 Public Administration Practicum (3) Prereq.: at least 15 sem. hrs. of graduate course work completed and approval of the Director of the MPA Program. Required of all MPA students. In-service students will be determined by the MPA Director. Related academic and professional training to work experience associated with the student's present employment; regular meetings with faculty and preparation of research paper indicating relationship between principles of public management and work activities.

7900 Public Administration Colloquium (3) Required of all MPA students in final semester of program; research project required. Legal, ethical, economic, political, and management principles used in assessing public administration topics; policy and administration issues.

7902 Seminar in Public Policy (3) Also offered as POLI 7902.

7910 Public Administration Theory and Practice (3) Contents and boundaries of public administration as discipline; topics include historical development of public administration as a field of study; organizational theory; professional ethics; policy development; management techniques to enhance productivity and performance; leadership; diversity; and other relevant issues for public managers; case studies used intensively.

7911 Organizational Analysis for Public and Nonprofit Organizations (3) Analyzing elements of effective organizational functioning in the public and nonprofit sectors, and the development of diagnostic skills to improve performance; incorporates organizational behavior and theory in the study of achieving effectiveness, efficiency, and growth.

7912 Public Personnel Policy Explores human resource policy, including procedures and principles of personnel administration; traditional aspects of personnel administration including recruiting, job classification,

evaluation, and compensation and dynamic topics include workforce diversity, drug abuse, whistle blowing, sexual discrimination, labor relations, and other relevant issues.

7913 Advanced Topics in Human Resource Management in the Public and Non-Profit Sector (3) Prereq.: PADM 7912 or permission of instructor. Advanced topics in human resource management including human resource management and organizational structure, workforce diversity, technology, legal and ethical issues, public policy issues, improving productivity, and other special topics of interest. Topics will vary from semester to semester.

7914 Public Budgeting (3) Introduction to public budgeting; study of budget techniques; importance of budgeting in policymaking; and understanding the budget process.

7915 Technology and Innovation in Public Sector (3) Evaluation of influence and role of public policies on formulation and implementation of technology and innovation strategy.

7916 State and Local Government Administration (3) Examination and analysis of how state and local governments are structured and how they are managed; case studies will be used to illustrate state and local administration; current issues relating to financing, regulation, zoning, delivery systems of local.

7917 Program Evaluation (3) Prereq.: PADM 5010 or equivalent course in statistics. Also offered as POLI 7917. Assessing whether programs designed to advance the public good are reaching their goals; examining program objectives, social context in which program operates, developing research designs to assess particular programs; use of statistical analysis in measuring program elements; and developing indicators to monitor public program.

7920 Ethics in the Public Service (3) Examination and analysis of role that ethical behavior and moral reasoning play in the practice of public administration; overview of dominant schools of classical ethical thought, including works of Socrates, Plato, Aristotle, Kant, Rawls, and Bentham, and leading ethical theories such as consequentialism, deontology, virtue ethics, and ethical relativism; readings, case studies, and experiential exercises will be used to explore the role of ethics in public service.

7925 Seminar in Nonprofit Management (3) Overview of principal management functions as applied to nonprofit organizations.

7970 Fundraising and Grantwriting (3) Development of fundraising and grantwriting skills for nonprofit organizations. Class structure includes lectures, seminar discussions, experiences with professional fund raisers and hands-on applications.

7980 Crisis Management (3) Explore complex challenges that crises pose, including noting causes of crises, short and long term effects of crisis, consequences of crises and disasters, and public policy responses to crisis. Seminar will build on theoretical explanations and insights, real-life crisis management case studies, and preparation of actionable alternatives to public authorities.

RELIGIOUS STUDIES • REL

General education courses are marked with stars (★).

★**1000 Religions of the World (3)** Primarily for non-majors. Survey of the religions of the world such as Hinduism, Buddhism, Judaism, Christianity, Islam, and indigenous religious traditions.

1001 Beginning Hebrew (4) See HEBR 1001.

★**1002 Beginning Hebrew (4)** See HEBR 1002.

★**1004 Old Testament (3)** Scholarly study of the Hebrew Bible (Old Testament) against the background of the history and religious life of ancient Israel.

★**1005 New Testament (3)** Introduction to the history, religion, and literature of early Christianity from about 30 to 150 CE; emphasis on the writings of the New Testament and the methods by which scholars study them.

★**1006 HONORS: New Testament (3)** Same as REL 1005, with special honors emphasis for qualified students.

★**1007 HONORS: Old Testament (3)** Same as REL 1004, with special honors emphasis for qualified students.

★**1015 HONORS: Introduction to Religion (3)** Same as REL 1000, with special honors emphasis for qualified students.

★**2000 Introduction to the Study of Religion (3)** Thematic introduction to the academic study of religion; ways of being religious; forms of religious literature; beliefs and rituals; the place of religion in human life.

★**2001 Faith and Doubt (3)** Intellectual sources of religious doubt; alternatives to traditional Judeo-Christian religion, including existentialism, Freudianism, and psychological behaviorism.

★**2003 Intermediate Hebrew (4)** See HEBR 2003.

★**2004 Intermediate Hebrew (4)** See HEBR 2004.

2006 HONORS: Jesus in History and Tradition (3) Primarily for honors students and students concentrating in

religious studies. Ideas about Jesus from antiquity to the present, including the modern quest for the historical Jesus.

★**2027 Asian Religions (3)** Survey of the history, beliefs, and practices of the major religions of Southern and Eastern Asia, focusing on Hinduism, Buddhism, and the religions of China and Japan.

★**2028 Philosophy of Religion (3)** Same as PHIL 2028. Meaning of religion as a pervasive phenomenon in human societies; faith and reason, nature of divinity, arguments for and against God's existence, religious knowledge and experience, morality and cult, the problem of evil.

★**2029 Judaism, Christianity, and Islam (3)** Survey of the history, beliefs, and practices of these three related religions.

★**2030 HONORS: Judaism, Christianity, and Islam (3)** Same as REL 2029, with special honors emphasis for qualified students.

★**2031 HONORS: Asian Religions (3)** Same as REL 2027, with special honors emphasis for qualified students.

2033 American Religions (3) Introduction to religions in America.

2034 Indigenous Religions (3) Introduction to the religions of the indigenous peoples or "First Nations" of the Americas, Africa, and Australia.

2120 The Holocaust (3) Responses of Judaism and the Christian church to Nazi Germany's killing of the Jews; issues about God, human morality, Western civilization, and modernity.

2925 Independent Study/Tutorial (1) Prereq.: 3 sem. hrs. of religious studies courses and at least a 2.50 gpa. May be taken for a max. of 3 hrs. of credit when topics vary. Readings, conferences, and reports under faculty direction.

3000 Christianity (2) Advanced survey of the global history of Christianity, with in-depth analysis of the diversity of Christian beliefs and practices throughout the world.

3002 Modern Catholicism (3) The religious and institutional development of Catholicism and the Roman Catholic Church from about the year 1500 to present, including issues of church and state, the question of the "other" in missions and ecumenism, devotionalism and popular piety, and the challenges of and responses to modernity.

3004 Archaeology and the Bible (3) Also offered as ANTH 3004. Major figures and discoveries influencing the historical study of the Bible; emphasis on results of excavations and discovery of written documents and inscriptions.

3005 Paul and Early Christianity (3) Paul's writings in historical context; assessment of his place in the development of the church; significant themes in his theology.

3010 Special Topics in Religious Studies (3) May be taken for a max. of 12 hrs. of credit when topics vary.

3015 Christian Mysticism (3) See PHIL 3015.

3030 Topics in Mysticism (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Studies of the literature and practices of particular mystical traditions, such as Christian, Kabbalistic, Sufi, Hindu, Buddhist, Taoist, Afro-Caribbean, or the shamanistic traditions of the Americas, or Tibet and Central Asia.

3033 Native American Religions (3) Survey of native North American religious traditions from prehistory to the present; including issues of conversion and Christianization, freedom of religion, and gender.

3051 Apocalypse: Then and Now (3) Ideas about the end of the world from antiquity to the present; emphasis on the book of Revelation and its continuing influence.

★**3090 Comparative Mythology (3)** See CLST 3090.

3092 Fundamentalisms and Religious Nationalism (3) Also offered as INTL 3092. Investigates how the phenomenon of fundamentalism manifests itself in combinations of religion and politics in various countries around the world as a response to "modernity."

3100 Judaism (3) Religious texts, faith, and practice in Judaism, from antiquity to the present.

3101 American Judaism (3) American Jewish history; Judaism as a cultural entity and religious faith.

3102 American Catholic History (3) Roman Catholicism in its North American context: the European heritage; immigration; political, intellectual, and devotional life.

3104 Ancient Hebrew Prophets (3) Prophetic movement in ancient Israel; different modern interpretations of prophecy.

3124 The Literature of the English Bible (3) Also offered as ENGL 3124.

3201 Psychological Theories of Religion (3) Also offered as PSYC 3201. Use of various psychological theories to explain religious belief and practice, conversion experiences, ritual acts, and altered states of mind.

3203 Religion and Parapsychology (3) Extraordinary human experiences such as faith healing, death and dying, exorcism, apparitions, and witchcraft, examined from the perspective of religious phenomenology, philosophy, and psychology.

3236 Literature and Religion: An Overview (3) See ENGL 3236.

3238 Religion and Film (3) Interaction between religion and film; approaches to the analysis of religion in film; emphasis

on shared literary grounds.

3300 Women and Religion (3) Role of women in the religions of the world.

3786 The Religion of Islam (3) Also offered as INTL 3786. Introduction to the major religious and cultural dimensions of the Islamic world, both those that express its diversity and those that express its continuity; emphasis on the development of classical Islamic institutions and ideas, the diverse forms of Islamic religious and cultural life over the past fourteen centuries as the Islamic tradition has spread around the world.

4001 South Asian Society, Polity, and Culture (3) See INTL 4002.

4005 History of the Christian Church: 50-450 (3) Also offered as HIST 4005. Christianity's rise to prominence; its struggle against paganism; emphasis on institutional history of the church.

4006 History of the Christian Church: 450-1350 (3) Also offered as HIST 4006. Medieval Latin Christianity; emphasis on central role of the church in culture, politics, and social organization.

4010 Selected Topics in Religious Studies (3) May be taken for a max. of 12 hrs. of credit when topics vary.

4011 The Age of Reformation (3) See HIST 4011.

4012 History of Modern Christian Thought (3) Prereq.: one religious studies course. Also offered as HIST 4012. Major figures in the history of Christian thought from the Reformation through the 19th century.

4031 Comparative Religions (3) See ANTH 4031.

4032 Religion, Gender, and Society (3) Also offered as ANTH 4032. Examination of the link between religious ideas and gender formulations within simple and complex societies and certain religious communities.

4041 Women and Witchcraft (3) A cross-cultural examination of "witchcraft" and issues of gender in North America, Europe, and Africa.

4050 A History of God (3) Traces the development of the concept of God from antiquity to the present.

4060 Ideas of the Afterlife (3) Traces the development of ideas concerning life after death in various traditions from antiquity to the present.

4079 Geography of Religion (3) See GEOG 4079.

4095 The Middle East to 1800 (3) See HIST 4095.

4096 The Modern Middle East (3) See HIST 4096.

4097 Political Theology (3) See POLI 4097.

4098 Muslims of South Asia (3) See HIST 4098.

4124 Studies in African Diaspora Religions (3) Also offered as AAAS 4124. May be taken for a max. of 6 hrs. of credit when topics vary. Analysis of religious beliefs, rituals, and practices and their roles in the lives of African Diaspora peoples.

4125 History of Ancient Israel (3) Also offered as HIST 4125. Israelite history from its beginnings to the Christian era; readings from biblical and other ancient Near Eastern texts.

4161 History of Religion in the United States (3) See HIST 4161.

4171 Religion in Southern Culture (3) Religion as a component of Southern history and culture; emphasis on the religious culture of Louisiana.

4191 Religions of China and Japan (3) See HIST 4191.

4200 Special Topics in American Religion (3) Advanced examination of special topics in American religion.

4227 Contemporary Christian Thought (3) Major theologians and theological movements of the 20th century.

4228 Major Religious Thinkers (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Concentrated study of the work of a religious thinker.

4236 Studies in Literature and Religion (3) See ENGL 4236.

4301 Theories of Religion (3) Theories about the origin, nature, and function of religion from the social sciences and other disciplines.

4350 Religious Ethics (3) Ethical issues derived from religious traditions.

4500 Seminar in Biblical Studies (3) Prereq.: one course in Biblical studies. May be taken for a max. of 6 hrs. of credit when topics vary.

4600 Hinduism (3) Prereq.: REL 2027 or consent of instructor. A survey of Hinduism from its origins to the present.

4800 Buddhism (3) Prereq.: REL 2027 or consent of the instructor. A survey of Buddhism from its origins to the present.

4850 Buddhist Psychology (3) Buddhist conceptions of mind, self, psyche, and personhood in comparison to Western views of the same.

4928 Medieval Philosophy (3) See PHIL 4928.

4939 Kierkegaard (3) See PHIL 4939.

4944 Philosophical Theology (3) See PHIL 4944.

4990 Independent Reading and Research (1-3) Open to advanced students with prior approval of faculty member who will direct the course. Student is responsible for

selecting area of reading and research and gaining agreement of faculty member to direct the course. May be taken for a max. of 6 hrs. of credit when topics vary.

7250 Seminar: Theoretical Study of Religion (3) Method, theory, and approaches in the study of religion; emphasis on classical and recent works in the discipline.

7600 Seminar: Western Religions (3) May be taken for a max. of 6 hrs. of credit when topics vary. Modern critical study of Western religions; relationship between religion and Western culture.

7700 Seminar: Asian Religions (3) May be taken for a max. of 6 hrs. of credit when topics vary. Texts, ideas, and practices of major Asian religions; sociological, anthropological, historical, and psychological issues.

7990 Independent Study (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary.

RENEWABLE NATURAL RESOURCES • RNR

General education courses are marked with stars (★).

★ **1001 Natural Resource Conservation (3)** F,S Relationship of humans to the natural environment; ecology and conservation of soil, water, forest, range, wildlife, and fisheries resources.

1002 Issues in Natural Resource Management (1) F,S Prereq.: for RNR majors only; credit or registration in RNR 1001. Discussions of the ecological, economic, sociocultural, and political factors that affect human relationships with the natural environment and the exploitation and conservation of water, forest, range, wildlife, wetland, and fisheries resources.

1003 Introduction to Wildlife Management (2) F,S Life history, habitat requirements, and management of wildlife; emphasis on species of sporting and economic value; careers in wildlife management.

1004 Conservation of Forest Resources (2) F,S Resources of forest and range land, including wood, wildlife, recreation, forage, and water; techniques of multiple-use management of forest lands.

2001 Trees and Woody Plants of the Southeast (2) F 1 hr. lecture; 3 hrs. lab. Students are responsible for paying for travel expenses associated with this course. Principal trees of the southeastern U.S.; their identification, classification, nomenclature, and distribution. Emphasis on southern timber species; common shrubs, ornamentals, woody vines, and some herbaceous plants will also be covered.

2002 Introduction to Fisheries and Aquaculture (3) F 2 hrs. lecture; 3 hrs. lab. Students are responsible for paying for travel expenses associated with this course. History and scope of fisheries and aquaculture; production and harvest of economically important aquatic vertebrates and invertebrates; role of fisheries and aquaculture professionals in society.

2003 Trees and Woody Plants of the Eastern and Western United States (1) S 3 hr. lab. Prereq.: RNR 2001 or consent of instructor. Students are responsible for paying for travel expenses associated with this course. Important trees of the eastern and western U.S.; their identification, distribution and value. Emphasis on important timber species and a limited number of common woody shrubs.

2031 Principles of Wildlife Management (3) S Prereq.: RNR 2101 or concurrent enrollment. Wildlife conservation and management; ecology and management of wildlife in relation to the objectives of consumptive and nonconsumptive interest groups.

2039 Introduction to Renewable Natural Resource Policy (3) F, S Development and implementation of policies in renewable natural resources; current environmental issues.

2043 Wood Science and Forest Products (3) S 2 hrs. lecture; 3 hrs. lab. Structural components of wood and identifying characteristics; basic physical properties; manufacture and uses of forest products.

2061 Problems in Natural Resource Management (1-4) F,S,Su Prereq.: permission of instructor. May be taken for a max. of 4 sem. hrs. of credit. Topics covered vary with the needs of the student and availability of faculty.

2101 Ecology of Renewable Natural Resources (3) F Prereq.: BIOL 1202, 1209, RNR 1001, 1002. General ecological principles tied to the conservation and management of plant and animal populations; emphasis on how populations interact in communities and ecosystems.

2102 Natural Resource Measurements and GIS (3) F 2 hrs. lecture; 3 hrs. lab. Students are responsible for paying for travel expenses associated with this course. Introduction to sampling techniques in measuring renewable natural resources, such as trees, wood products, forest stands, wildlife and fisheries populations, and water quality.

Introduction to use of global information systems (GIS) and global positioning systems (GPS) applications in natural resource management.

3002 Silviculture (3) F Prereq.: RNR 2101. Basic knowledge of personal computers and e-mail is assumed. 2 hrs. lecture; 3 hrs. lab. Students are responsible for paying for travel expenses associated with this course. A generalized approach to forest stand establishment and culture based on the ecological principles of regeneration and the identification of stand conditions that will satisfy specific goals and objectives for the forest.

3004 Photogrammetry, GPS and GIS (3) F Prereq.: permission of department. 2 hrs. lecture, 3 hrs. lab. Students are responsible for paying for travel expenses associated with this course. Principles, interpretation, and use of aerial photos, Global Positioning Systems (GPS), and Geographic Information Systems (GIS) in stand measurements and forest management applications.

3005 Field Studies in Wildlife Habitat (2) Intersession only. Prereq.: RNR 2001. Class meets 8 hrs. per day for 2 weeks at off-campus sites. Students are responsible for paying for travel expenses associated with this course. Identification of woody and herbaceous plants important to wildlife species and techniques used to quantify wildlife habitat; emphasis on collecting field data and plant identification in field setting to assess habitat quality for wildlife.

3018 Ecology of Louisiana Wildlife (4) S Prereq.: RNR 2031. 2 hrs. lecture; 6 hrs. lab. Students are responsible for paying for travel expenses associated with this course. Habitat selection, food habits, and reproductive biology of selected species of amphibians, reptiles, birds, mammals, and fishes; emphasis on the diversity of niche exploitation strategies among these groups.

3034 Field Studies in Dendrology (1) S Prereq.: RNR 2001. One week of field practice. Students are responsible for paying for travel expenses associated with this course.

Review of species studied in RNR 2001; 60 to 70 more species of trees, shrubs, and woody vines indigenous to the southeastern U.S. studied; herbarium collection required.

3036 Field Studies in Mensuration (2) S Prereq.: RNR 3103. Two weeks of field practice. Students are responsible for paying for travel expenses associated with this course. Exercises in designing and conducting timber and multipurpose cruises; boundary location and other types of land surveying associated with forest resource management.

3037 Field Studies in Silviculture (1) S Prereq.: RNR 2001, 3002, and 3103. One week of field practice. Students are responsible for paying for travel expenses associated with this course. Field tours of a range of forestry practices and field experiences in various silviculture practices.

3038 Field Studies in Timber Harvesting (1) S Prereq.: RNR 3002 and 3103. One week of field practice. Students are responsible for paying for travel expenses associated with this course. On-site studies of harvesting systems used in southern forestry; participation in timber harvesting; exercises in time and production.

3039 Field Studies in Wood Utilization (1) S Prereq.: RNR 2043, 3002, and 3103. One week of field practice. Students are responsible for paying for travel expenses associated with this course. On-site studies of wood manufacturing facilities; exercises in product/raw material relationships.

3040 Silvicultural Prescriptions (1) S Prereq.: RNR 3002 and 3103. One week of field practice. Students are responsible for paying for travel expenses associated with this course. Practical development of silvicultural prescriptions incorporating elementary economic analysis and silvicultural principles.

3041 Forest Practicum (1-4) F,S,Su 1-4 weeks practicum. Students are responsible for paying for travel expenses associated with this course. May be taken for a max. of 4 sem. hrs. of credit. Field exposure to various aspects of forestry practices; intended for off-campus field, lab, workshop, or other intensive training in the field of forestry.

3044 Renewable Natural Resources Field Studies (1) S Prereq.: RNR 3002, 3103. One-week field trip. Students are responsible for paying for travel expenses associated with this course. Insight into management objectives and issues in forested ecosystems not found in the West Gulf Coastal Plain; experience gained through on-site tours and discussions with various natural resource professionals.

3103 Forest Biometrics (2) S Prereq.: RNR 2102, EXST 2201, and MATH 1431. Principles in measuring trees, stands, wood products, and other forest resources; sampling and inventory techniques; statistical inference.

3105 Forest Biology (2) S Prereq.: RNR 2101. This is an 8-week course. The general University drop/add dates do not apply. The instructor will provide students with the drop/add dates established by the Office of the University Registrar. Topics include: tree anatomy, tree growth, tree physiology, forest genetics, and ecological principles specific to the understanding of forest ecosystems and sustainable management of forests.

3106 Timber Harvesting (2) S 1 hr. lecture; 3 hrs. lab. Students are responsible for paying for travel expenses associated with this course. This in an 8-week course, the

general University drop/add dates do not apply. The instructor will provide students with the drop/add dates established by the Office of the University Registrar. Methods of harvesting timber crops; logging equipment, planning, road layout, legal and social issues, environmental concerns, financial analysis of logging operations, and contracts; field trips and practical exercises included.

3107 Wood Procurement (2) S Prereq.: RNR 3102. 1 hr. lecture; 3 hrs. lab. Students are responsible for paying for travel expenses associated with this course. This is an 8-week course. The general University drop/add dates do not apply. The instructor will provide students with the drop/add dates established by the Office of the University Registrar. Methods of purchasing and marketing timber crops; practicum of timber and pulpwood purchasing systems; value assessments, wood specifications, human relations, negotiations, ethics, competitive bidding; legal and social issues; contracts; records; wood storage; and global aspects; field trips and practical exercises included.

3108 Case Studies in Habitat Restoration (2) S Prereq.: RNR 2101, 1 hr. lecture, 3 hrs. lab, 2 weekend field trips. Students are responsible for paying for travel expenses associated with this course. The general University drop/add dates do not apply because this is an 8-week course. The instructor will provide students with the drop/add dates established by the University Registrar. Principles related to the context, planning, design, and implementation of habitat restoration and mitigation; evaluation of habitat restoration efforts using the case study method.

4002 Fisheries Literature and Communication (3) F 2 hrs. lecture; 3 hrs. lab. Organization and communication of technical fisheries literature.

4011 Wildlife Management Techniques (4) F Prereq.: RNR 2031 and EXST 2201. 3 hrs. lecture; 3 hrs. lab. Weekend field trips. Students are responsible for paying for travel expenses associated with this course. Wildlife science and the scientific method, generating and testing hypotheses and predictions, statistical analysis of class generated data and scientific writing. Population inventories and analysis; harvest management; methods to capture animals and determine age and sex. Immobilization methods, marking methods, radio telemetry, and assessment of nutrition and condition. Use of GPS and GIS in wildlife ecology.

4013 Ecology and Management of Wetland Wildlife (4) F-O 3 hrs. lecture; 3 hrs. lab. Students are responsible for paying for travel expenses associated with this course. History and value of wetlands, waterfowl, fur animals, alligators, wetland habitat management.

4020 Taxonomy and Ecology of Wetland Plants (4) See BIOL 4020.

4021 Recreation in the Forest Environment (3) F Prereq.: senior standing. 2 hrs. lecture; 3 hrs. lab. Students are responsible for paying for travel expenses associated with this course. Resource-oriented recreation in the forest; demand and supply; recreational planning and development of forest lands and waters; basic recreation management policies and principles.

4022 Principles of Aquaculture (4) S Prereq.: 8 sem. hrs. of introductory chemistry and 8 sem. hrs. of introductory zoology and/or biology; or equivalent. 3 hrs. lecture; 3 hrs. lab with occasional extended field trips. Students are responsible for paying for travel expenses associated with this course. Principles underlying aquaculture of fish, crustaceans, and mollusks.

4023 Marine Fisheries Resources (3) S Survey of the biology, harvest, and management of commercially important marine organisms throughout the world; emphasis on stock trends and the effects of biological and socioeconomic factors on development of management programs.

4025 Limnology (3) F Prereq.: BIOL 1201, 1208 and CHEM 1201, 1202, 1212 or equivalent. Geomorphology, physiochemistry, biology, and ecology of inland waters.

4030 Tropical Forestry (1) V Distribution and characteristics of tropical forests; conservation and sustained management; managing the tropical forest resources of the world.

4032 Forest Fire Protection and Use (2) S 1 hr. lecture; 3 hrs. lab. Students are responsible for paying for travel expenses associated with this course. 8-week course. The general University drop/add dates do not apply. The instructor will provide students with drop/add dates established by the Office of the University Registrar. Forest fire control and use; emphasis on southern forests.

4033 Silviculture and Management of Hardwoods (4) S Prereq.: RNR 3002 or consent of instructor. 3 hrs. lecture; 3 hrs. lab. Students are responsible for paying for travel expenses associated with this course. Extended field trips, one weekend field trip. Ecology, silviculture, and management of hardwood forest ecosystems; improvement,

conservation, and use for forest products, wildlife habitats, and other amenities.

4035 Ecology and Management of Upland Wildlife (3) F 2 hrs. lecture; 3 hrs. lab; extended field trips. Students are responsible for paying for travel expenses associated with this course. Ecology and management of wildlife in upland habitat; recreational leasing of forest land; current issues related to upland wildlife.

4036 Forest Management (4) F Prereq.: ECON 2030 or AGECE 2003 or equivalent, RNR 3036, 3037, and 3040. 3 hrs. lecture; 3 hrs. lab. Compounding and discounting; management of a single stand, even-aged and uneven-aged management, decision criteria, and decision variables, management of an existing stand; forest taxation and valuation; management of many stands; harvest scheduling.

4037 Biology of Fishes (3) S Prereq.: RNR 4145 or consent of instructor. Morphological, physiological, and behavioral adaptations of fishes to their environments; relationships between fish biology and fisheries management.

4038 Forest Resource Economics (3) F Prereq.: ECON 2030 or AGECE 2003 or equivalent. Economic theory applied to forest resources and their utilization; structure of the forest products market, demand of forest products, timber supply and stumpage price; resource conservation and endangered species protection; taxation and government programs; international trade of forest products; demand for non-timber resources.

4039 Renewable Natural Resources Policy (3) S History of forestry and forest legislation; development and evaluation of policies in forestry, wildlife, and fisheries; current issues.

4040 Fisheries Management (3) F Characteristics of fisheries; dynamics of exploited stocks; socioeconomic aspects of fisheries; fisheries management and research techniques; managing wild fisheries stocks.

4042 Forest Products Marketing (3) S Marketing principles; forest products industry, structure, marketing activities, and competition in a global environment.

4044 Mechanical and Physical Properties of Wood (3) V Prereq.: RNR 2043 or equivalent. 2 hrs. lecture; 3 hrs. lab. Standard laboratory testing procedures, basic strength determination, working stresses, and timber design.

4045 Design and Control of Wood-Using Processes (3) V Prereq.: RNR 2043. Relationship of basic physical properties of wood to utilization processes involving machining, gluing, and finishing.

4046 Chemical Properties of Wood (4) V Prereq.: RNR 2043; and either CHEM 2060 or 2262. 3 hrs. lecture; 3 hrs. lab. Chemistry of wood, cellulose, lignin, and extraneous materials in wood and bark; chemical utilization and modification of wood.

4047 Seasoning and Preservation (4) V Prereq.: RNR 2043 or equivalent. 3 hrs. lecture; 3 hrs. lab. Principles of lumber drying and wood preservation; economics of the treating industry.

4050 Industrial Forestry Operations (2) F Survey of major forest products corporations; upper management personnel; corporate structure, philosophy, strategy; business outlook, employment and personnel trends; wood procurement, land management, environmental concerns.

4051 Wildlife Habitat Management (3) S Prereq.: RNR 2001, 2031. 2 hrs. lecture; 3 hrs. lab. One weekend field trip. Students are responsible for paying for travel expenses associated with this course. Principles of managing landscapes to benefit a diversity of wildlife species, as well as specific management strategies to benefit single species; management scenarios for a variety of forested, open and urban habitats will be discussed.

4061 Problems in Natural Resource Management (1-4) F,S,Su May be taken for a max. of 6 sem. hrs. credit. Independent or directed study.

4064 Forest Tree Improvement (3) F Prereq.: RNR 3002 or permission of instructor. Genetic basis of variation in natural populations of forest trees; principles for using this variation to obtain genetically improved trees for reforestation; techniques of genetic testing, selection, breeding, and genetic engineering; methods for *in situ* and *ex situ* conservation of genetic resources.

4101 Integrated Natural Resources Management and Policy (4) S Prereq.: RNR 2039, 3004 and senior status in School of Renewable Natural Resources. 2 hrs. lecture; 4 hrs. lab. Students are responsible for paying for travel expenses associated with this course. Development of problem solving skills for the management of renewable natural resources; application and integration of renewable natural resource management theory, policy and practices; analysis of management and policy decisions.

4102 Quantitative Silviculture (3) F Prereq.: RNR 3040. Techniques in growth-and-yield modeling, density management, and creation of desired stand conditions.

4103 Conservation Genetics (3) S Prereq.: BIOL 1201 and 1202. Application of genetic theory to the management of renewable natural resources; emphasis on fragmented populations, endangered species, maintenance of genetic

variation.

4104 Forest Products Manufacturing (4) F Prereq.: RNR 2043. 3 hrs. lecture; 3 hrs. lab. Principles and techniques in the manufacture of forest products including lumber, treated materials, furniture, adhesive, and composite materials such as plywood, particleboard, medium density fiberboard, oriented strandboard, and engineered lumber.

4105 Aquaculture Production Systems (3) S Prereq.: BIOL 1201, 1208 or equivalent. General biology and culture techniques of the major global finfish, crustacean, molluskan, amphibian, and reptilian species.

4106 Techniques in Limnology and Fisheries (2) S Prereq.: junior, senior, or graduate standing and permission of instructor. 1 hr. lecture; 1 hr. lab. Students are responsible for paying for travel expenses associated with this course. Quantitative techniques in habitat, water quality, and fish population assessment in freshwater ecosystems.

4107 Human Dimensions in Natural Resources (3) F Prereq.: RNR 2039, 6 hrs. social science general education electives. Human behavior as related to management and use of natural resources.

4145 Ichthyology (4) See BIOL 4145.

4151 Hydrology of Natural Landscapes (3) Prereq.: AGRO 2051 and MATH 1431 or consent of instructor. 2 hrs. lecture; 3 hrs. lab. Hydrologic processes and principles of natural landscapes; understanding of characteristics and role of water in environment; concepts for water resources management and water quality protection.

4600 Topics in Marine Zoology (2-6) See BIOL 4600.

4900 Watershed Hydrology (3) F See ENVS 4900.

7001 Research Methodology (3) F Planning, conducting, and reporting of research in the renewable natural resources.

7002 Advanced Silviculture (3) S-O Silvics and silvicultural practices related to the commercially important Southern tree species, especially the pines; silvics and silviculture of several major commercial species outside the southern U.S.

7003 Advanced Forest Soils (3) S-E Prereq.: AGRO 2051 or equivalent. 2 hrs. lecture; 3 hrs. lab. Students are responsible for paying for travel expenses associated with this course.

7004 Forest Ecophysiology (3) S-O Prereq.: BIOL 3060 and RNR 3105 or consent of instructor. Whole-plant physiological responses that affect survival, growth, and reproduction of forest trees and other woody plants; effects of various forest site factors on physiological processes affecting survival, growth, and yield of trees; interpretation of response of trees to environmental stresses.

7005 Ecophysiological Methods/Instrumentation (2) S-O Prereq.: credit or concurrent enrollment in RNR 7004 or PLHL 7014, or consent of instructor. 1 hr. lecture; 3 hrs. lab. Occasional extended field trips. Students are responsible for paying for travel expenses associated with this course.

Research in whole-plant physiological ecology; presentation and use of selected field methods and instrumentation for eco-physiology or physiological plant ecology research.

7006 Behavioral Ecology (3) F-E Behavioral ecology of plants and animals; evolution of behavior; behavioral strategies for survival and reproduction; importance of behavior to management and conservation strategies.

7010 Nutrition of Aquatic Animals (3) S-E Prereq.: CHEM 2060 or 2261 or ANSC 4009. 2 hrs. lecture; 3 hrs. lab. Nutrition of cultured finfishes and shellfishes; nutrient requirements for growth and reproduction; digestion, metabolism, nutrition, and health interactions; feeds and feeding practices.

7011 Mammalian Ecology and Management (3) F 2 hrs. lecture; 3 hrs. lab. Students are responsible for paying for travel expenses associated with this course. Management, ecology, and conservation of selected mammals of North America.

7012 Ecology and Management of Waterfowl (3) F-O 2 hrs. lecture; 3 hrs. lab. Students are responsible for paying for travel expenses associated with this course. Behavioral and physiological adaptations of waterfowl throughout the annual cycle; population dynamics and habitat management; political and economic aspects of harvest management in North America.

7013 Wildlife Population Dynamics (3) F-O Prereq.: EXST 7005 or equivalent. 2 hrs. lecture; 2 hrs. lab. Theories of population growth and regulation, population interaction, life tables, mortality rate calculation; band data analysis; population modeling.

7015 Ecology and Management of Upland Birds (3) F 2 hrs. lecture; 3 hrs. lab. Students are responsible for paying for travel expenses associated with this course. Ecology and management of selected upland birds found in North America; students will develop a comprehensive management plan for a selected species.

7016 Current Topics and Techniques in Conservation Science (3) F 2 hrs. lecture; 3 hrs. lab. Scientific basis for the preservation of biodiversity; conservation strategies of government and non-government organizations; current status of biodiversity around the world; new techniques

applicable to conservation biology; quantitative exercise with predictive demography (PVA), biodiversity at the population and community levels, fragmentation and other landscape effects, and genetics of small populations.

7017 Restoration and Management of Wetland Functions (4) F-E 2 hrs. lecture, 6 hrs. lab. Two weekend field trips; one five-day field trip. Students are responsible for paying for travel expenses associated with this course.

Wetland Ecology with a focus on functions valued by society; natural history of commonly managed wetland types; fundamentals of restoration ecology; wetland restoration programs in theory and in practice.

7018 Habitat Management Principles (4) F-E 2 hrs. lecture; 6 hrs. lab. Students are responsible for paying for travel expenses associated with this course. Principles of management applied to habitat evaluation; endangered species; mitigation; global trends of habitat quality and change.

7020 Ecology of Fishes (3) S-O Prereq.: BIOL 4253 or equivalent. Ecology of fish populations; interactions of fishes and their environment; behavioral adaptations of fishes.

7025 Advanced Aquaculture (3) Su Prereq.: RNR 4022 or equivalent. 4 hrs. lecture; 6 hrs. lab with occasional extended field trips. Students are responsible for paying for travel expenses associated with this course. Systems and practices for maximizing production and profit of cultured aquatic species; emphasis on international aquaculture systems, exotic species, and preparation of management plan for commercial aquaculture.

7026 Shellfisheries Aquaculture (4) F-O Prereq.: RNR 4022 and BIOL 4154; or equivalent. 3 hrs. lecture; 3 hrs. lab. Principles and practices for culturing commercially important crustaceans and mollusks including soft crabs, marine shrimp, freshwater prawns, crawfish, oysters, clams, and mussels; emphasis on environmental requirements, facility development, hatchery and production management, budgets, and processing and markets.

7027 Genetics and Culture of Finfish (4) S-O Prereq.: RNR 4022 and BIOL 2153; or equivalent. 3 hrs. lecture; 3 hrs. lab. Practical culture techniques and methods of breeding for genetic improvement of commercially important finfish.

7029 Advanced Topics in Renewable Natural Resources (1-4) V May be taken for a max. of 6 sem. hrs. of credit when topics vary.

7036 Advanced Topics in Natural Resources Biometrics and Management (3) V Prereq.: EXST 7014 or equivalent. Theory and practice of modeling in natural resources applications, including populations, communities, habitats, and related biological, physical, and chemical processes.

7041 Advanced Wood Science (4) V Prereq.: RNR 2043. 3 hrs. lecture; 3 hrs. lab. Topics in wood science, including review of selected literature; anatomical, physical, and chemical properties of wood, with emphasis on wood products.

7061 Water Quality Management and Policy (3) See ENVS 7061.

7070 Graduate Seminar in Fisheries (1) F,S,Su May be taken for a max. of 4 sem. hrs. of credit when topics vary.

7071 Graduate Seminar in Forestry (1) F,S May be taken for a max. of 3 hrs. of credit. Pass-fail grading.

7072 Graduate Seminar in Wildlife (1) F,S,Su May be taken for a max. of 4 sem. hrs. credit when topics vary.

Topics of current interest in wildlife science and management.

7151 Watershed Hydrology and Floodplain Analysis (3) Prereq.: AGRO 2051 or RNR 4151 or consent of instructor. 2 hrs. lecture; 3 hrs. lab. Also offered as ENVS 7151.

Hydrologic processes and principles on watersheds and floodplains; interactions among water resources, water quality, land use, and management practices; hydrologic modeling of natural landscapes.

7320 Fisheries Oceanography (3) F See OCS 7320.

7424 Diseases of Aquatic Animals (3) Prereq.: consent of instructor. Basic microbiology and/or parasitology strongly recommended. 2 hrs. lecture; 2 hrs. lab. Same as PBS 7424. Identification, pathogenesis, and control of viral, bacterial, and parasitic agents causing diseases in aquatic animals.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Research Problems in Natural Resources (1-3) F,S,Su May be taken for a max. of 6 sem. hrs. of credit. Pass-fail grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

RUSSIAN • RUSS

Native speakers of Russian will not receive credit for courses marked with an asterisk (*).

General education courses are marked with stars (★).

*1001 **Elementary Russian I (5)** Hearing, speaking, reading, and writing Russian; elementary grammar, translation.

★*1002 **Elementary Russian II (5)** Prereq.: RUSS 1001 or equivalent. Hearing, speaking, reading, and writing Russian; completion of elementary grammar; translation.

*1020 **Russian for Reading Knowledge (5)** Specialized course intended to satisfy departmental foreign language reading requirement for graduate students, but carrying no graduate credit. Undergraduates may enroll on pass-fail basis only. Does not count toward satisfying foreign language requirement for undergraduates, although hours may count toward baccalaureate. Credit will not be given for both this course and introductory Russian courses.

★*2001 **Intermediate Russian I (3)** Prereq.: RUSS 1002 or equivalent. Hearing, speaking, reading, and writing Russian; development of practical command of Russian grammatical categories unfamiliar to English speakers; translation.

★*2002 **Intermediate Russian II (3)** Prereq.: RUSS 2001 or equivalent. Hearing, speaking, reading, and writing Russian; development of practical command of Russian grammatical categories unfamiliar to English speakers; translation.

2020 **Russian for Travelers (3)** *Su Credit not applicable toward a minor in Russian. Does not count toward satisfying foreign language requirement for undergraduates.* Basic communication patterns; practical everyday vocabulary with exercises in comprehension and conversation.

★ 2075 **Introduction to Russian Culture and Civilization (3)** Taught in English; knowledge of Russian not required. Also offered as HIST 2135. Geography, history, religion, literature, music, art, architecture, and scientific and technological achievements of Russia.

3061 **Advanced Russian Discourse I (3)** Prereq.: RUSS 2002 or equivalent. Vocabulary building and readings in modern Russian; drill in oral and written original composition; attention to style, syntax, idioms, and inflections.

3062 **Advanced Russian Discourse II (3)** Prereq.: RUSS 3061 or equivalent. Vocabulary building and reading in modern Russian; drill in oral and written original composition; attention to style, syntax, idioms, and inflections.

3071 **19th Century Russian Literature I (3)** Prereq.: RUSS 2002 or equivalent. Russian literature from the beginning to the 19th century.

3072 **20th Century Russian Literature I (3)** Prereq.: RUSS 2002 or equivalent. Russian literature of the 20th century; study of literary texts; grammatical and cultural analysis; practice in listening and writing.

3073 **19th Century Russian Literature II (3)** Prereq.: RUSS 2002 or equivalent. Russian literature of the end of the 19th century.

3074 **20th Century Russian Literature II (3)** Prereq.: RUSS 2002 or equivalent. Continuation of RUSS 3072. Russian literature of the 20th century; study of literary texts; grammatical and cultural analysis; practice in listening and writing.

★ 3401 **The Fairy Tale (3)** Taught in English; knowledge of Russian not required. Structure and substance of the traditional fairy tale; examples from German and Russian sources.

3501 **Russian Film (3)** Knowledge of Russian not required. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Selected topics in Russian film.

4030 **Russian Literature: Novel (3)** The Russian novel from its beginning to the end of the 19th century.

4031 **Russian Literature: Novel (3)** Special works of Turgenev, Dostoevsky, Tolstoy.

4061 **Soviet Literature (3)** Russian literature from 1917 to the present.

★ 4081 **Russian Literature in Translation: 19th Century (3)** Knowledge of Russian not required. Masterpieces of 19th century Russian literature, including the works of Turgenev, Dostoevsky, and Chekhov.

★ 4082 **Russian Literature in Translation: 20th Century (3)** Knowledge of Russian not required. Masterpieces of 20th century Russian literature, pre- and post-Revolution, including the works of four Nobel Prize winners of literature: Bunin, Pasternak, Sholokhov, and Solzhenitsyn.

4101 **Topics in Russian Literature in Translation (3)** May not be taken for graduate credit. Selected authors or themes.

4600 **Introduction to Russian Linguistics (3)** Also offered as LING 4600. Russian phonetics, morphology, and history of the Russian language.

4915 **Independent Work (1-3)** May be taken for a max. of 6 sem. hrs. of credit. Permission of department required.

Readings in Russian literature directed by a senior faculty

member.

4950 **Senior Project (3)** Prereq.: RUSS 2002 or equivalent and senior standing. May be taken for a max. of 6 sem. hrs. of credit. May not be taken for graduate credit. Interdisciplinary research project on a topic in Russian Area Studies.

SOCIAL WORK • SW

Additional information concerning the School of Social Work is available from the *School of Social Work Bulletin*.

2000 **Introduction to Social Work (3)** The profession of social work; history, description of programs in contemporary American society; role of the social worker in meeting social needs.

3000 **Perspectives in Contemporary Social Welfare (3)** Prereq.: SW 2000 or equivalent. Changing concepts of social welfare; issues, policies, and proposals related to meeting economic and developmental needs.

3002 **The Child and the Community (3)** Common and particular needs of children in the community; social welfare services developed by communities for care and training of children.

3003 **Skills in Working with People (3)** Basic skills in working with people; understanding attitudes; use of community resources.

3007 **Juvenile Delinquency (3)** Nature and extent; sociological and psychological factors in causation and treatment of delinquent children; how communities are organized to help troubled youth and to prevent inception and spread of juvenile problems.

3011 **Community Services and the Aged (3)** The aged population and their needs; available resources and services in the community; assisting the aged in obtaining services; implications for the future.

4000 **Modern India: Society and Culture (3)** Also offered as GEOG 4000. Interdisciplinary analysis of politico-cultural issues of contemporary pan-Indian society.

4003 **Penology (3)** Development of the penitentiary in society; punishment versus rehabilitation; problems in operating adult prison units.

4005 **Groups and Social Work (3)** Use of groups in social work; types of groups, dynamics, decision making processes and worker roles.

4020 **Computers, Crime, and Justice (3)** Historical trends, current research issues, emerging technological developments, and alternative theoretical frameworks for studying the impact of computerization on crime and criminal justice.

4022 **Correctional Administration, Management, and Supervision (3)** Current issues in the management and supervision of American and international corrections organizations; role of policy in correctional administration; effects of organizational theory and human resource management practices; personnel supervision and training;

program planning; effects of court intervention; current health care issues, including AIDS and drugs; privatization.

4070 **Special Topics in Social Work (3)** May be taken for a max. of 9 sem. hrs. of credit when topics vary. Selected topics on social work practice and social welfare services.

4075 **Comparative Health Care Issues (3)** Focus on the British National Health Service (NHS) and the United States managed health care system; comparison of current health care programs and cost-control policies in the United Kingdom with those in the United States.

4080 **Special Topics in Applied Correctional Policy (3)** May be taken for a max. of 9 sem. hrs. of credit when topics vary.

4090 **Corrections Internship (3)** Prereq.: 2.50 gpa, 60 hrs. of course work, three hrs. from SW 4020, 4022, 4080, or consent of instructor. Pass/fail grading. Field study/placement in a corrections institution under the supervision of a faculty member.

4099 **Individual Readings in Corrections (3)** Prereq.: 2.50 gpa, 60 hrs. of course work, 3 hrs. from SW 4020, 4022, 4080, or consent of instructor. May be taken for a max. of 6 hrs. of credit.

4500 **Crisis Intervention (3)** Introduction to major theories and research that describes and explains the range and complexity of problems that may emerge from natural or other disaster scenarios.

7001 **Human Behavior and the Social Environment I (3)** Prereq.: majors only and credit for or concurrent registration in SW 7003, 7004, 7005, and 7007. Socio-behavioral science base of social work practice; interrelationship of biological, psychological, social, and cultural determinants of human behavior; major biopsychosocial developmental achievements and adaptations of human beings from conception through death.

7002 **Human Behavior and the Social Environment II (3)** Prereq.: SW 7001; majors only and credit for or concurrent registration in SW 7006, 7008, 7009, 7010. Social science base of social work practice; social systems in

which human beings develop and live; focus on research related to social interaction.

7003 **Social Welfare History and Policy (3)** Prereq.: majors only and credit for or concurrent registration in SW 7001, 7004, 7005, and 7007. Development of social work as a profession; evolution of social welfare policies and programs; nature of social policy and policy formulation.

7004 **Human Diversity and Oppression (3)** Prereq.: majors only and credit for or concurrent registration in SW 7001, 7003, 7005, and 7007. Social dynamics of human oppression; effects of institutional discrimination, inequality, stigma, and prejudice stemming from racism, sexism, ageism, and classism; implications of human oppression and multiculturalism for human behavior, social work practice, and social policy.

7005 **Social Work Practice I (3)** Prereq.: majors only and credit for or concurrent registration in SW 7001, 7003, 7004, and 7007. Introduction to social work theory, principles, and intervention skills common to social work practice with individuals and families; psychosocial perspectives in intervention.

7006 **Social Work Practice II (3)** Prereq.: SW 7005. Majors only and credit for or concurrent registration in SW 7002, 7008, 7009, and 7010. Techniques of working with various types of groups including treatment groups and planning action groups; community organization techniques.

7007 **Foundation Field Internship I (3)** Prereq.: majors only and credit for or concurrent registration in SW 7001, 7003, 7004, and 7005. Pass-fail grading. \$100 internship fee. Application of foundation knowledge, skills, values, and ethics to practice in an approved internship agency. 240 clock hours.

7008 **Foundation Field Internship II (3)** Prereq.: majors only and credit for or concurrent registration in SW 7002, 7006, 7009, and 7010. Pass-fail grading. \$100 internship fee. Continuation of SW 7007. Application of knowledge, skills, values, and ethics to practice in an approved internship agency. 240 clock hours.

7009 **Social Work Research (3)** Prereq.: majors only and credit for or concurrent registration in SW 7002, 7006, 7008, and 7010. Standards and methods of scientific inquiry applied in social work research; concept formulation; research design; sources, collection, and presentation of data.

7010 **Differential Diagnosis (3)** Prereq.: majors only and credit for or concurrent registration in SW 7002, 7006, 7008, and 7009. Diagnostic and treatment tools for examining the functionality of human behavior in the context of diverse social systems.

7200, 7201 **Integrative Colloquium in Social Work I, II (3,3)** Prereq.: admission to the PhD program in social work or consent of instructor. Broad-ranging analysis and discussion of problems and issues in the social work profession.

7202 **Issues and Research Problems in Social Policy (3)** Prereq.: admission to the PhD program in social work or consent of instructor. Issues and problems in social welfare policy; research focus on policy formulation.

7203 **Data Analysis for Social Work Research I (3)** Prereq.: admission to the PhD program in social work or consent of instructor. Introduction to data analysis for social work doctoral students, including: organizing and presenting data, descriptive statistics, correlation, simple linear regression, inferential statistical methods for one and two samples, and one-way analysis of variance.

7204 **Issues and Research Problems in Social Work Intervention (3)** Prereq.: admission to the PhD program in social work or consent of instructor. Social work intervention with individuals, families, groups, and communities; formulation and development of problem-solving research agendas.

7205 **Pedagogical Issues in Social Work Education (3)** Prereq.: admission to the PhD program in social work or consent of instructor. Enhancement of pedagogical knowledge, skills, and values; emphasis on teaching for the social work profession.

7206 **Research Practicum (3-9)** Prereq.: admission to the PhD program in social work or consent of instructor; SW 7203 and at least one of EXST 7003, 7013, or SW 7435. No more than 6 hrs. may be taken in one semester. Hands-on supervised research experience; demonstration of collaborative and/or independent research.

7207 **Integrative Seminar (3)** Prereq.: foundation courses in PhD program and at least one research methods course, plus consent of instructor. Development of research questions and hypotheses, and initial drafts of the dissertation proposal, including introduction, literature review, and methodology sections.

7305 **Grief & Bereavement (3)** Contemporary theories of grief and loss; cultural, ethnic, and religious differences in beliefs and practices surrounding grief and dying; ethical issues related to social work practice with end-of-life issues.

7306 Advanced Social Work Treatment of Individuals (3) Prereq.: SW 7006. Differential diagnostic assessment and treatment of individuals with complex intrapersonal problems.

7307 Direct Practice with Children and Adolescents (3) Prereq.: completion of all foundation courses. Maladaptive patterns of behavior in children and adolescents; intervention strategies with children, parents, families, and groups.

7308 Social Work with Groups: Theory and Practice (3) Prereq.: SW 7006. Dynamics of social work with groups; members' behavior and corresponding worker roles and responses.

7309 Advanced Methods of Group Treatment (3) Prereq.: consent of instructor. Diagnostic and treatment procedures used in intensive group therapy.

7402 Social Work in Corrections (3) Social work processes in corrections; population served; existing and needed delivery systems for rehabilitative services; influence of the host setting.

7403 Social Work and Aging (3) Demographic characteristics of the aging population; aging as a developmental process with economic, biological, psychological, and socialization aspects; impact of legislative and social service systems.

7404 Social Work Practice in Schools (3) Implementation of social work values, purposes, and methods in a school setting.

7405 Marital and Family Treatment in Social Work (3) Prereq.: completion of all foundation courses. Identification and modification of dysfunctional transactional patterns; facilitating communication; improving the quality of marriage and family relations.

7406 Social Work with Lesbian, Gay, Bisexual, and Transgender People (3) Prereq.: SW 7004 and SW 7005. Development of students' professional competence with lesbian, gay, bisexual, and transgender (LGBT) people. Exploration of social work practices at the micro, mezzo, and macro levels and across social, political, and economic realms.

7409 Law and Social Work (3) Prereq.: completion of all foundation courses. Relationship of law to social work; statutes, cases, and doctrinal materials in personal and family breakdown; programs for income maintenance; Supreme Court cases concerning criminal justice, juvenile courts, and the rights of the confined.

7410 Comparative Social Welfare (3) Prereq.: SW 7003 and/or consent of instructor. Comparative analysis of international social welfare systems; differential cross-national social services; similarities and differences among nations.

7412 Social Work in Medical Care (3) Nature of social work practice in the field of medical care; medical care system and consumer problems; role of medical social workers.

7415 Child/Family I (3) Theories and skills of assessment and communication with children and families.

7416 Child/Family II (3) Prereq.: completion of all foundation courses. Legal and administrative functions in working with children and families.

7435 Data Analysis for Social Work Research II (3) Prereq.: SW 7203 or consent of instructor. Advanced data analysis for social work doctoral students with emphasis on multivariate techniques.

7455 Management in Human Services (3) Prereq.: completion of all foundation courses. Management used in the effective provision of social services; techniques of modern management; interdisciplinary and practical approaches; unique aspects of human service management; development of critical attitudes and management skills.

7501 Program and Practice Evaluation (3) Prereq.: completion of all foundation courses; majors only and credit for or concurrent registration in SW 7502, 7503, 7504, 7505, and 7506. Types of research, designs, and instruments used in social work; research processes from specification to hypotheses and collection of data.

7502 Advanced Field Internship I (3) Prereq.: majors only and credit for or concurrent registration in SW 7501, 7503, 7504, 7505, and 7506. Pass-fail grading. \$100 internship fee. Supervised internship in an approved agency setting where advanced knowledge, skills, values, and ethics are applied in the practice setting. 240 clock hours.

7503 Advanced Field Internship II (3) Prereq.: majors only and credit for or concurrent registration in SW 7501, 7502, 7504, 7505, 7506. Pass-fail grading. \$100 internship fee. Continuation of SW 7502. Supervised internship in an approved agency setting where advanced knowledge, skills, values, and ethics are applied in the practice setting. 240 clock hours.

7504 Advanced Social Policy (3) Prereq.: majors only and credit for or concurrent registration in SW 7501, 7502, 7503, 7505, and 7506. Dimensions and patterns of social policy; evolution and design of provisions and services; current issues, problems, and trends.

7505 Advanced Direct Practice (3) Prereq.: completion of all foundation courses. Majors only and credit for or concurrent registration in SW 7501, 7502, 7503, 7504, and 7506. Advanced methods of effective individual, family, and group treatment of systemic issues in a holistic perspective.

7506 Community and Agency Contexts for Direct Practice (3) Prereq.: majors only and credit for or concurrent registration in SW 7501, 7502, 7503, 7504, and 7505. Community, organizational, and social aspects of social work practice; indirect practice skills associated with effective social work practice in multiple service environments.

7710 Task-Oriented Group Interaction in Social Work (3) Interaction of small groups in social work practice; emphasis on understanding barriers to goal-directed interaction and on helping groups accomplish tasks.

7801 Family Violence (3) Topics in family violence; their relevance to social work practice; program development and interventive approaches and issues.

7803 Grant and Proposal Writing for Human Service Organizations (3) Prereq.: completion of all foundation courses. Methods of accessing federal, state, and private funds; developing grant and contract proposals.

7804 Addictive Disorders in Contemporary Society (3) Topics related to addictive disorders in contemporary society; their relevance to social work practice.

7805 Co-occurring Substance Use and Mental Disorders: Assessment and Intervention (3) Co-occurring substance use and mental disorders and their prevalence and relevance to social work practice, policy and program development, and research.

7807 Special Topics in Social Work (3) Prereq.: consent of instructor. May be taken for a max. of 12 sem. hrs. of credit when topics vary. Selected topics on social work and social welfare theory, practice, and policy.

7905 Independent Reading and Research in Social Work Practice (3) Prereq.: consent of instructor. May be repeated once by PhD students if topics vary.

7906 Independent Reading and Research in Social Welfare Policy (3) Prereq.: consent of instructor. May be repeated once by PhD students if topics vary.

7907 Public Policies and the Aging (3) Public policies that affect quality of life for the elderly; Older American's Act, Social Security Act, Medicare and Medicaid policies.

7908 Social Development: International Perspectives (3) Concepts of social development; extent of social underdevelopment in the modern world; theories and normative perspectives; social and national planning.

7999 Research Project: Nonthesis (3) Prereq.: completion of foundation courses and consent of instructor. Pass-fail grading. Research project, state of knowledge paper, or position paper.

8000 Thesis Research (1-12 per sem.) Prereq.: completion of all foundation courses and consent of instructor. "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) Prereq.: successful completion of the General Examination. "S"/"U" grading.

SOCIOLOGY • SOCL

In this department, the second digit of the course number denotes the subject area of the course, as follows: 0—general courses; 1—theory; 2—methods and statistics; 3—social organization; 4—social institutions; 5—social issues; 6—social interaction; 7—population and ecology; 8—not used; and 9—reading and research (except for thesis research and dissertation research that are numbered 8000 and 9000, respectively).

General education courses are marked with stars (★).

1001 Human Societies (3) Comparative and historical analysis of human societies; major patterns of social change.

1005 Social Life in the United States (3) Open only to international students. An orientation course on people, culture, social institutions, and processes.

1481 Introduction to Science, Technology, and Society (3) Sociological analysis of knowledge generation, institutions of science and technology, and public understanding of science.

1701 Population Issues (3) Social demography; interrelationships between population and society.

★ **2001 Introductory Sociology (3)** Major subject areas and principles of sociology.

★ **2002 HONORS: Introductory Sociology (3)** Same as SOCL 2001 with a special honors emphasis for qualified students.

2091 Selected Topics in Sociology (3) May be taken for a max. of 6 hrs. of credit when topics vary.

2201 Introduction to Statistical Analysis (4) 3 hrs. lecture; 2 hrs. lab. Prereq.: MATH 1021 or equivalent. Open to sociology majors; open to others with permission of

instructor. Descriptive statistics; inferential statistical methods including confidence interval estimation and hypothesis testing for one and two population means and proportions; one-way analysis of variance; simple linear regression and correlation; analysis of categorical data.

2211 Methods of Sociological Research (3) Prereq.: SOCL 2001 and 2201; or equivalent. Open to sociology majors; open to others with permission of instructor.

Scientific methods and their application in sociological research, including problem selection, research design, measurement, data sources, and evaluation of data.

2351 Rural Sociology (3) Sociological concepts related to rural life; social bases of human behavior, social inequality, social institutions, and social change.

2411 Industrial Sociology (3) Social organization in industry; relation of industry to community and society.

2501 Current Social Problems (3) Sociological analysis of major social problems in contemporary society; focus on both the institutional and personal causes and consequences.

2505 Marriage and Family (3) Current issues and trends regarding marriage and family.

2511 Race Relations (3) Also offered as AAAS 2511.

Examines relations among persons of different racial groups in an interdisciplinary setting that includes sociological, psychological, political, anthropological, and historical viewpoints.

2721 The City (3) Comparative study of urban communities and their problems.

2741 Sociological Perspectives on the South (3) Prereq.: SOCL 2001 or equivalent. Society and culture in the South; the region's uniqueness, diversity, and ordeal of change.

3101 Sociological Theory (3) Prereq.: SOCL 2001 or equivalent. Open to sociology majors; open to others with permission of instructor. Dominant theorists and schools of thought in sociology.

3371 Sociology of the Criminal Justice System (3) Prereq.: SOCL 1001 or 2001 or equivalent. The criminal justice system and its organizational components.

3501 Sociology of Deviance (3) Prereq.: SOCL 2001 or equivalent. Sociological theories of deviant behavior; supporting research on mental illness, crime, sexual deviance, drug abuse, and suicide.

3505 Poverty in the United States (3) Prereq.: SOCL 2001 or 2501 or equivalent. Definition of poverty, its meaning, measurement, causes, correlates, and consequences; strategies for its amelioration and elimination.

3510 Criminal Violence (3) Prereq.: SOCL 2001 or equivalent. An in-depth study of criminal violence, including its forms, myths, and facts regarding victims and offenders, and the causes, consequences, and control of violence.

3601 Social Interaction (3) Prereq.: SOCL 2001 or PSYC 2000 or equivalent. Human behavior as social interaction.

3605 Collective Behavior (3) Prereq.: SOCL 2001 or equivalent. Sociological analysis of noninstitutionalized group behaviors; crowds, panics, fads, hostile outbursts, and social movements.

3900 Sociology Internship (1-3) Prereq.: 75 hours of course work completed, 2.50 overall gpa, written consent of department head and supervising faculty member; may be taken for a max. of 3 hrs. of credit. Faculty supervised field study/research with an agency or organization whose mission is considered relevant to the student's curriculum.

3901 Directed Reading and Research in Sociology (1-3) Prereq.: SOCL 2001 or equivalent. May be taken for a max. of 3 sem. hrs. credit. Student registers with a faculty member before registration to select the area of reading or research. Topic must not substitute for regularly offered courses unless reading goes beyond a standard course's offerings.

3905 HONORS: Senior Thesis Research (3) Prereq.: SOCL 3901; open to seniors who are candidates for a bachelor's degree with honors in sociology. Supervised research and preparation of a senior thesis.

3911 Research Practicum in Rural Sociology (1-3) Prereq.: SOCL 2211, 2351, and 3101. May be taken for a max. of 3 sem. hrs. credit. Student registers with a faculty member and, in consultation, selects a research problem. Supervised research experience in rural sociology, including design, execution, and reporting.

4011 Applied Social Research (3) Prereq.: SOCL 2001 or equivalent; 2201 or equivalent; and 2211 or equivalent.

The use of sociological and social science knowledge and research techniques to understand the problems individuals and groups face in modern advanced industrial societies and to help ameliorate these problems through structural changes in social policies and practices.

4091 Topics in Sociology (3) Prereq.: SOCL 2001 or equivalent. May be taken for a max. of 9 sem. hrs. of credit when topics vary.

4111 Development of Social Thought (3) Prereq.: SOCL 2001 or equivalent. Early social thought contributing to classical and contemporary sociology.

4211 Intermediate Research Methods (3) Prereq.: SOCL 2211 or equivalent. Also offered as PSYC 4017. Techniques and procedures in sociological research; alternative research designs, measurement, sampling procedures, observation, data collection procedures, coding, data processing, and analysis procedures.

4301 Social Organization (3) Prereq.: SOCL 2001 or equivalent. Structure and function of social systems and institutions.

4311 Complex Organizations (3) Prereq.: SOCL 2001 or equivalent. Bureaucracies and complex formal organizations; theories, goals, structure, processes, organizational behavior, and interaction of organizations with the environment.

4321 The Community (3) Prereq.: SOCL 2001 or equivalent. Classical and contemporary perspectives on the community; theoretical and methodological issues associated with community studies.

4331 Social Stratification (3) Prereq.: SOCL 2001 or equivalent. Class and rank structure in society; determinants of social class, mobility, and changes in class position of both individuals and groups; attitudinal and behavioral consequences of class position.

4341 Social Change (3) Prereq.: SOCL 2001 or equivalent. Major theoretical and empirical problems in the study of social change.

4351 Rural Social Organization (3) Prereq.: SOCL 2001 or 2351 or equivalent. Social organization in rural societies: groups, organizations, institutions, and communities.

4401 The Family (3) Prereq.: SOCL 2001 or equivalent. The family as a social institution.

4402 Modeling Communication Within Marital and Family Relationships (3) See CMST 4118.

4411 Sociology of Work (3) Prereq.: SOCL 2001 or equivalent. Work and the division of labor in industrial society; sociology of occupations and professions.

4413 Gender and Work (3) Prereq.: SOCL 4411 or 4521 or equivalent. Gender differences in workforce participation and occupational and earnings attainments; impact of historical, legal, and social factors on women's and men's employment and career options, pay equity, and occupational experiences.

4421 Political Sociology (3) Prereq.: SOCL 2001 or equivalent. Comparison of social movements and political parties.

4431 Sociology of Education (3) Prereq.: SOCL 2001 or equivalent. Education as an institution of society; the school as a social system and socialization within schools.

4441 Sociology of Religion (3) Prereq.: SOCL 2001 or equivalent. Nature of religion; societal and cultural factors in religion; role of religion in social change and in contemporary society.

4451 Sociology of Medicine (3) Prereq.: SOCL 2001 or equivalent. Sociological analysis of the structure and function of health agencies and occupations; social and cultural factors in the cause and treatment of illness.

4461 Criminology (3) Prereq.: SOCL 2001 or equivalent. Crime, the criminal justice system, and penology.

4462 Sociology of Youth & Crime (3) Prereq.: SOCL 2001 or equivalent. The sociological study of adolescent deviance and crime; the socio-demographic correlates and social psychological causes of youthful offending and the juvenile justice system.

4463 Gender and Crime (3) Prereq.: SOCL 2001 or equivalent. Examination of gender as a socially, culturally, and historically situated accomplishment and its relationship to criminal offending and victimization.

4464 Rural Crime (3) Prereq.: SOCL 2001 or equivalent. Focuses on the nature, extent, causes, consequences, and control of crime in rural America; topics include violence, property crime, fear of crime, and agricultural and wildlife crime.

4465 Drugs and Society (3) Prereq.: SOCL 2001 or equivalent. An exploration of the net of social relations in which drugs, drug users, drug dealers, and drug laws are embedded; involves critical analysis of popular claims about drugs and the development of a sociological understanding of substance use and abuse in the modern U.S.

4471 Sociology of Law (3) Prereq.: SOCL 2001 or equivalent. Law and social change; evolution of legal institutions; group conflict and law; influence of legal controls and sanctions on human behavior.

4481 Science, Technology, and Society (3) Prereq.: SOCL 2001 or equivalent. Scientific institutions and development; nature of technological decision making; reciprocal effects of scientific and societal change.

4511 Minority Peoples in the United States (3) Prereq.: SOCL 2001 or equivalent. Analysis of past and present contributions of ethnic and racial minority groups in the U.S.

4521 Sociology of Gender (3) Prereq.: SOCL 2001 or equivalent. Gender differences in families, education, the workplace, and the state; understanding the social, economic, and cultural factors that shape the lives of men and women;

theoretical analysis of how different women and men experience the social world.

4531 The Aged in Contemporary Society (3) Prereq.: SOCL 2001 or equivalent. Social, demographic, psychological, cultural, and health factors related to the aging process in contemporary society.

4551 Sociology of Development (3) Prereq.: SOCL 2001 or equivalent. Central concepts, perspectives, and research themes in sociocultural developmental change.

4601 Personality and Social Structure (3) Prereq.: SOCL 3601 or PSYC 3140 or equivalent. Interaction of social structures, such as the family, peer group, and school, with the personalities of individuals; processes by which each affects the other.

4611 Attitudes and Attitude Change (3) Prereq.: SOCL 3601 or PSYC 3140 or equivalent. Analysis of attitudes; social factors in their formation and change.

4621 Small Groups (3) Prereq.: SOCL 3601 or PSYC 3140 or equivalent. Analysis of groups, their structure and functions.

4631 Social Networks and Society (3) Prereq.: SOCL 2001 or equivalent. Processes of network formation and their consequences for people, groups, and organizations.

4701 Population (3) Prereq.: SOCL 2001 or equivalent. Processes that influence size and composition of human populations; determinants and consequences of demographic trends.

4711 Human Ecology (3) Prereq.: SOCL 2001 or equivalent. Exposition and evaluation of theory of social organization; emphasis on interdependence of population, technology, and organization in adaptation of a population to its environment.

7121 Seminar: Classical Sociological Theory (3) Prereq.: consent of instructor. Historical survey of sociology with primary emphasis on European (Marx, Weber, and Durkheim) and early American (Mead and Park) sociologists.

7131 Seminar: Contemporary Sociological Theory (3) Prereq.: SOCL 7121 or equivalent. Current theoretical perspectives in sociology ranging from structural functionalism to ethnomethodology.

7201 Fundamental Statistics in Sociology (3) Prereq.: SOCL 2201 or equivalent. Introduction to inferential methods in sociological research; emphasis on interpretation and current research.

7203 Advanced Research Methods in Social Science (3) Prereq.: SOCL 7201 or equivalent. Also offered as POLI 7963. Survey of advanced methodology in the social sciences; emphasis on general linear model and causal models.

7211 Seminar: Methods of Social Investigation (3) Prereq.: EXST 7003 or equivalent. Research methods in the social sciences; interplay of theory and methods of research; formulation of research problems and design; measurement and scaling; sampling; ethics in research; and critiques of social science research.

7213 Specialized Topics in Social Science Methods (2-3) Prereq.: SOCL 7203 or POLI 7963 or equivalent. May be taken for a max. of 12 sem. hrs. of credit when topics vary. Also offered as POLI 7964.

7351 Seminar: Topics in Rural Sociology (3) Prereq.: consent of instructor. May be taken for a max. of 9 sem. hrs. credit if topics vary. Specialized areas in rural sociology.

7391 Seminar: Topics in Social Organization (3) Prereq.: consent of instructor. May be taken for a max. of 12 sem. hrs. credit if topics vary. Specialized areas in social organization.

7491 Seminar: Topics in Social Institutions (3) Prereq.: consent of instructor. May be taken for a max. of 12 sem. hrs. credit if topics vary. Specialized areas in social institutions.

7591 Seminar: Topics in Social Issues (3) Prereq.: consent of instructor. May be taken for a max. of 9 sem. hrs. credit if topics vary. Specialized areas in social issues.

7691 Seminar: Topics in Social Interaction (3) Prereq.: consent of instructor. May be taken for a max. of 9 sem. hrs. credit if topics vary. Specialized areas in social interaction.

7791 Seminar: Topics in Population and Ecology (3) Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. credit if topics vary. Specialized areas in population and ecology.

7901, 7902 Independent Reading and Research (3,3) Prereq.: successful completion of at least one year of graduate work.

7903 Proseminar in Sociology (1) Required twice of both master's and PhD candidates. Pass-fail grading. Contemporary research and critical issues in sociology.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Research in Sociology (1-6) Open only to students engaged in a specific, organized research project under faculty supervision. Student must be engaged in design and implementation of research and analysis and interpretation of data.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

SPANISH • SPAN

Native speakers of Spanish will not receive credit for courses marked with an asterisk (*).

General education courses are marked with stars (★).

***1050 Elementary Spanish (4) F,S,Su** For students with previous study of Spanish who did not place into SPAN 1102 through the Spanish Placement Examination. Credit will not be given for this course and SPAN 1101. Material covered in SPAN 1101 is covered in 1050. Supplementary work in language laboratory. Basic lexicon and structure of Spanish; emphasis on communicative language use.

***1101 Elementary Spanish (4)** For students with no previous study of Spanish. Students with previous study of Spanish should enroll in SPAN 1050. Credit will not be given for this course and SPAN 1050. Supplementary work in language laboratory. Basic lexicon and structure of Spanish; emphasis on communicative language use.

★1102 Elementary Spanish (4) F,S Prereq.: SPAN 1050 or 1101 or equivalent. Credit will not be given for this course and SPAN 1152. Supplementary work in the language laboratory. Basic lexicon and structure of Spanish; emphasis on communicative language use.

★1152 Intensive Beginning Spanish (4) F,S,Su Prereq.: two years of high school Spanish. Credit will not be given for this course and SPAN 1102. Credit will be awarded for SPAN 1101 upon successful completion of this course with a "C" or better. Review of basic Spanish vocabulary and grammar with emphasis on communicative language use.

2001 Spanish for Travelers (3) Su Credit not applicable toward a major in Spanish. Does not count toward satisfying foreign language requirement for undergraduates. Basic communication patterns; practical everyday vocabulary, with exercises in comprehension and conversation.

★2101 Intermediate Spanish (3) F,S,Su Prereq.: SPAN 1102 or equivalent. An honors course, SPAN 2103, is also available. Continuation of elementary Spanish. Additional emphasis on reading and writing.

★2102 Intermediate Spanish (3) F,S,Su Prereq.: SPAN 2101 or equivalent. An honors course, SPAN 2104, is also available. Continuation of SPAN 2101.

***2103 HONORS: Intermediate Spanish (3) F,S** Same as SPAN 2101, with special honors emphasis for qualified students.

***2104 HONORS: Intermediate Spanish (3) F,S** Same as SPAN 2102, with special honors emphasis for qualified students.

***2154 Intermediate Oral Communication (3) V** Prereq.: SPAN 2102 or equivalent. Development of listening and speaking competency.

★2155 Spanish Textual Commentary (3) F,S Prereq.: SPAN 2102 or equivalent. Oral and written commentary on a variety of genres and nonprint media in Spanish.

2156 Advanced Oral Communication (3) Prereq.: Permission of department, and SPAN 2154 or equivalent, and credit or registration in SPAN 2155.

3001 Tutoring Learners of Spanish as a Second Language (1) Prereq.: SPAN 2155 or equivalent, EDCI 2001 and concurrent enrollment in EDCI 3001. 3 hrs. lab/field experiences in multicultural settings. A carefully monitored and evaluated Spanish tutoring experience in a local middle or high school under the guidance of the course instructor and a mentoring teacher.

3002 Developing Language Lessons for Spanish as a Second Language (1) Prereq.: EDCI 3001, SPAN 3001, and concurrent enrollment in EDCI 3002. 3 hrs. lab/field experiences in multicultural settings. Under the supervision of a Spanish faculty member and a teacher mentor, teacher candidates in this course will prepare and deliver second language Spanish language lessons that incorporate audio-visual materials and technology-enhanced language learning activities.

3010 Advanced Spanish Grammar and Composition (3) F,S Prereq.: Permission of department and credit or registration in SPAN 2155.

3020 Literary Analysis (3) F,S Prereq.: SPAN 2155, 2156, and 3010. Literary genres and their characteristics; critical reading and commentary of Spanish texts.

★3043 Introduction to Latin American Literature I (3) Prereq.: SPAN 3020. Reading and analysis of representative selections from pre-Columbian period through independence.

★3044 Introduction to Latin American Literature II (3) Prereq.: SPAN 3020. Reading and analysis of representative literature from independence to the present.

3070 Spanish for Professionals (3) F,S Prereq.: SPAN 2155 or equivalent and consent of instructor. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Development of language skills for functioning in various professional contexts such as business, medicine, or law.

★ **3071 Survey of Spanish Literature (3) F** Prereq.: SPAN 3020. Spanish literature from its beginning to the 18th century.

★ **3072 Survey of Spanish Literature (3) S** Prereq.: SPAN 3020. Main authors and literary movements from the 18th century to the present.

3073 Advanced Readings on Spanish Civilization (3) F Prereq.: SPAN 3010. Ethnological, geographical, historical, political, economic, and sociological factors necessary for understanding Spanish culture.

3074 Advanced Readings on Hispanic-American Civilization (3) S Prereq.: SPAN 3010. Parallels SPAN 3073, but focuses on the Hispanic-American countries.

3980 Special Topics in Spanish (3) Prereq.: either SPAN 3043 or 3044 or 3071 or 3072. May be taken for a max. of 6 hrs. of credit when topics vary.

4001 History of the Spanish Language (3) V Development of Spanish from its beginnings to the present.

4002 Spanish for Reading Knowledge (5) Su Specialized course intended to satisfy departmental foreign language reading requirement for graduate students. This course will not count toward a graduate degree. Undergraduates may enroll on a pass/fail basis only. Does not count toward satisfying foreign language requirements for undergraduates, although hours may count toward baccalaureate. Credit will not be given for both this course and introductory Spanish courses.

4003 Instructional Strategies for the Second Language Spanish Classroom (1) Prereq.: EDCI 3002, SPAN 3002, and concurrent enrollment in EDCI 4003. 3 hrs. lab/field experiences in multicultural settings. Teacher candidates will study and participate in activities that incorporate different classroom interactional structures, including teacher-to-whole class, task-based group activities, and student-to-student (pair work); candidates will design and conduct Spanish language lessons using learner-centered activities.

4004 Critical Issues in Teaching Spanish as a Second Language: Capstone Course (3) Prereq.: EDCI 4003, SPAN 4003, and concurrent enrollment in EDCI 4004. Teacher candidates should be in the last two semesters in completion of the requirement for a major in Spanish. Taught in Spanish. Focus on the consolidation of knowledge about the Spanish language, literature, and culture with respect to the teaching of subject content to middle or high school learners.

4005 Structure of the Spanish Language (3) Prereq.: SPAN 3010 or equivalent. Spanish morphology and syntax; structuralist, sociolinguistic, and generative-transformational analyses and applications.

4007 Spanish Medieval Literature (3) Spanish literature from its beginnings to the end of the 14th century; emphasis on the *mester de juglaría*, *mester de clerecía*, and masterpieces of prose and poetry of the 14th century.

4034 Special Topics in 18th and 19th Century Literature (3) V May be taken for a max. of 6 sem. hrs. of credit when topics vary.

4053 Special Topics in Golden Age Prose (3) V May be taken for a max. of 6 sem. hrs. of credit when topics vary. Spanish Renaissance and Baroque prose.

4054 Special Topics in Golden Age Lyric and Dramatic Poetry (3) V May be taken for a max. of 6 sem. hrs. of credit when topics vary. Spanish drama and lyric poetry of the 16th and 17th centuries.

4063 Spanish Literature from 1898 to 1936 (3) Prereq.: SPAN 3071 or 3072. Literature in all genres from the early Modernists to the Avant Garde.

4064 Spanish Literature Since 1936 (3) Prereq.: SPAN 3071 or 3072. Literature in all genres since the Spanish Civil War.

4081 Modern Spanish Prose Fiction in Translation (3) Taught in English; knowledge of Spanish not required. Selected outstanding novels and short stories of modern Spanish literature from the 16th and 17th century Golden Age to the present; includes *The Life of Lazarillo de Tormes* and works by Cervantes, Pérez Galdós, Unamuno, Valle-Inclán, Pérez de Ayala, Cela, Laforet, and Gironella.

4082 Modern Spanish-American Prose Fiction in Translation (3) Taught in English; knowledge of Spanish not required. Selected outstanding Spanish-American prose works by García Márquez, Cortázar, Fuentes, Carpentier, and Borges.

4100 Women Writers in the Hispanic World (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Examination of selected periods, themes, and genres.

4144 Latin American Literature: 1492-1810 (3) Prereq.: one literature course in Spanish at the 3000 level or consent of instructor. Topics in colonial Latin American literature from 1492-1810.

4145 Latin American Literature: 1810-1915 (3) Prereq.: one literature course in Spanish at the 3000 level or consent of instructor. Topics in Latin American literature from independence through modernismo (1810-1915).

4146 Latin American Literature: 1915-1960 (3) Prereq.: one literature course in Spanish at the 3000 level or consent of instructor. Topics in Latin American literature from the historical avant-garde to 1960.

4147 Latin American Literature: 1960-Present (3) Prereq.: one literature course in Spanish at the 3000 level or consent of instructor. Topics in Latin American literature from 1960 to the present.

4200 Literature and Culture of Hispanics in the United States (3) Texts may be in English or Spanish. Selected periods, themes, and genres; related cultural topics.

4201 Cinema in Spanish (3) F,S Prereq.: consent of instructor. Screening and analysis of representative films from Spain and Latin America and their interrelations with literature.

4400 Topics in Hispanic Cultural Studies (3) V May be taken for a max. of 6 sem. hrs. of credit when topics vary. Hispanic literary texts in relation to such domains as the arts, politics, religion, and society.

4602 Spanish Phonetics (3) Spanish phonetic systems; corrective and fluency drills in the language laboratory; problems of teaching Spanish pronunciation to English-speaking students.

4603 Applied Spanish Linguistics (3) Prereq.: SPAN 3010. Structures and communicative functions of Spanish; classroom applications.

4915 Independent Research in Spanish or Spanish-American Literature (1-3) May be taken for a max. of 3 sem. hrs. credit. Permission of department required. Readings in Spanish or Spanish-American literature directed by a senior faculty member.

4917 Independent Research in Spanish or Spanish-American Linguistics (1-3) May be taken for a max. of 3 sem. hrs. credit. Permission of department required. Readings in Spanish or Spanish-American linguistics.

7930 Studies in Medieval Spanish Literature (3) V With consent of department, may be taken for a max. of 6 hrs. of credit when topics vary.

7940 Topics in Spanish American Literature: Beginnings to 19th Century (3) V With consent of department, may be taken for a max. of 6 hrs. of credit when topics vary.

7946 Topics in Spanish American Literature: 19th Century to the Present (3) V With consent of department, may be taken for a max. of 12 hrs. of credit when topics vary.

7950 Special Topics in Golden Age Spanish Literature (3) V With consent of department, may be taken for a max. of 6 hrs. of credit when topics vary.

7961 Special Topics in Modern Spanish Literature (3) V With consent of department, may be taken for a max. of 12 hrs. of credit when topics vary.

7970 Comparative Studies in Hispanic Literature (3) V With consent of department, may be taken for a max. of 6 hrs. of credit when topics vary.

7980 Special Topics in Hispanic Linguistics (3) When topics vary, may be taken for a max. of 6 hrs. of credit for the master's degree and 9 hrs. of credit for the doctorate. Topics to be announced.

7982 Spanish Language Variation (3) May be taken for a max. of six sem. hrs. with consent of department. Sociolinguistic perspectives and methodology in the analysis of Spanish language variation.

7983 Spanish Language Acquisition (3) V Theories and discourse perspectives in second language acquisition.

7984 Spanish in the United States (3) Spanish in contact with English language use, variation, and change; social and individual bilingualism.

7985 Research in Hispanic Linguistics (3) May be taken for a max. of 6 sem. hrs. of credit with consent of department. Scholarly investigation guided by departmental graduate faculty.

7990 Special Topics in Hispanic Criticism (3) V With consent of department, may be taken for a max. of 6 hrs. of credit when topics vary.

7991 Literature and Politics in the Modern Hispanic World (3) F,S Study of Spanish and Spanish-American cultural politics through its literary manifestations.

7992 Theatre in the Modern Hispanic World (3) Study of Hispanic dramatic literature, examination of theatrical traditions and dramatic theories from a cultural perspective.

7993 Literature and Religion in the Hispanic World (3) Prereq.: SPAN 3071 and/or 3072. Study of religious and spiritual systems in literature.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

SWAHILI • SWAH

Native speakers of Swahili will not receive credit for courses marked with an asterisk (*).

General education courses are marked with stars (★).

*1001 Elementary Swahili Language and Culture I (4) Also offered as AAAS 1001. Introduction to Eastern Africa

and its cultures; basic lexicon and structures of Swahili; emphasis on communicative language skills.

★ *1002 Elementary Swahili Language and Culture II (4) Prereq.: SWAH 1001. Also offered as AAAS 1002. Increased emphasis on speaking, reading, writing, and deepening appreciation of Swahili's role in Eastern African socio-cultural development.

★ *2003 Intermediate Swahili Language and Culture III (4) Prereq.: SWAH 1002. Also offered as AAAS 2003. Further mastery of grammar; development of reading skills and analysis of contemporary texts.

★ *2004 Intermediate Swahili Language and Culture IV (4) Prereq.: SWAH 2003. Also offered as AAAS 2004. Further development of skills in reading and analyzing contemporary texts and more difficult forms of expressions, such as Swahili poetry and traditional literary texts.

SYSTEMS SCIENCE • SYSC

7090 Systems Science Design Project (1-9) Prereq.: minimum of 12 sem. hrs. earned toward the systems science degree. Individual design, development, implementation, and documentation of a project applying systems techniques, possibly involving computing, to a problem in the student's specialization.

8000 Systems Science Thesis Research (1-12 per sem.) "S"/"U" grading.

THEATRE • THTR

General education courses are marked with stars (★).

1000 Theatre Forum (0) May be repeated. Pass-fail grading. Weekly student performance and masterclass forum.

1001 Practical Elements of Stagecraft (3) Introduction to the skills and techniques used by artists and craftsmen in realization of the technological elements of all areas of live production, including training sessions in each of the main areas and departmental productions.

★ **1020 Introduction to Theatre (3)** The arts of the theatre and its artists; acting, directing, costume and scenic design; playwriting, architecture.

★ **1021 HONORS: Introduction to Theatre (3)** Same as THTR 1020, with special emphasis for qualified student.

1025 Acting: Improvisation (3) Exploration, through theatre games and movement training, of the actor's problems of intention, listening, physical expression of emotion, concentration, and mime.

1029 Stage Movement I (3) 2 hrs. lecture; 2 hrs. lab. Beginning stage movement for the actor, including flexibility, realignment, spatial awareness, gesture and body composition, and physical characterization.

1127 Beginning Modern Dance (1) 3 hrs. lab. May be taken for a max. of 2 hrs. of credit.

1131 Beginning Ballet (1) 3 hrs. lab. May be taken for a max. of 2 hrs. of credit.

1153 Beginning Jazz Dance (1) 3 hrs. lab. May be taken for a max. of 2 hrs. of credit.

1227 Intermediate Modern Dance (1) 3 hrs. lab. May be taken for a max. of 2 hrs. of credit.

1231 Intermediate Ballet (1) 3 hrs. lab. May be taken for a max. of 2 hrs. of credit.

1253 Intermediate Jazz Dance (1) 3 hrs. lab. May be taken for a max. of 2 hrs. of credit.

1800 Introduction to Dance (3) Dance as a performing art.

1804 Dance Theatre (2) 6 hrs. lab. May be taken for a max. of 4 hrs. of credit. Admission by audition. Participation in dance theatre.

2008 Introduction to Writing Drama (3) See ENGL 2008.

2020 Introduction to Stage Management (1) Prereq.: THTR 1001. 2 hrs. lab. Introduction to the duties and responsibilities of the theatrical stage manager; emphasis on the stage manager's place in the theatrical organization and how he/she interacts with other members of the production team.

2022 Introduction to Theatrical Design (3) Prereq.: concurrent registration in THTR 2026. Basic principles in designing lighting, costumes, scenery, and sound.

2023 Stage Makeup (1) Fundamentals of straight and character makeup; laws governing line, color, light, and shade; practical experience in makeup through various productions.

2024 Introduction to Theatre Technology (3) Introduction to all areas of theatre technology and how they affect production; areas to be covered include: production/stage management, scenery, costumes, stage properties, lighting, and sound.

2025 Fundamentals of Acting (3) Prereq.: THTR 1025; and concurrent registration in THTR 2026. Principles

involved in a workable theory of acting and their application through development of technical skill.

2026 Theatre Practicum I (1) *May be taken for a max. of 3 sem. hrs. of credit. No more than a total of 3 sem. hrs. of THTR 2026 and 4136 may be taken for undergraduate credit.* Participation in performance or production of a play produced by the Department of Theatre.

2027 Stage Voice: Basic Techniques (3) *Open to Theatre majors only.* Development of the speaking voice through physical awareness, breath release, phonation, resonance, and articulation to meet theatre performance standards.

★ **2028 Introduction to Dramatic Literature (3)** A study of representative plays from the Greek era to the present.

★ **2128 HONORS: Introduction to Dramatic Literature** *Same as THTR 2028, with special emphasis for qualified students.*

3020 American Musical Theatre (3) *Also offered as MUS 3020.* Development of the American musical in its cultural, theatrical, and social contexts from its beginnings to the present day; elements of musical theatre focusing on the work of composers, lyricists, designers, directors, choreographers, and performers.

3025 Advanced Acting (3) *Prereq.: THTR 2030.* *Open only to theatre performance majors.* 2 hrs. lecture; 3 hrs. lab. Characterization and scene work.

3027 Stage Voice: Advanced Techniques (3) *Prereq.: THTR 2027.* Continued development of the actor's vocal craft.

3029 Stage Movement II (3) *Prereq.: THTR 1029.* Continuation of THTR 1029. Specialized activities in character types, rhythm and tempo, mask work, and basic stage combat.

3121 Development of Theatre and Drama I (3) Historical survey of the development of theatre and drama from ancient Greece to French neoclassicism.

3122 Development of Theatre and Drama II (3) Historical survey of the development of theatre and drama from the 18th century to the present.

3123 Costume Construction Techniques for the Stage (3) *Prereq.: THTR 2024.* 6 hrs. lab. Study of the skills and techniques unique to the construction of costumes for the stage; emphasis on historical construction, cutting, finishing, design analysis, and adaptations for stage performance.

3124 Costume Crafts (3) *Prereq.: THTR 3123;* 2 hrs. lecture; 2 hrs. lab. Skills used in construction/modification of costume craft items; includes leatherwork, wig styling, hat making, shoe alteration, and construction of costume props.

3125 Tutus and Dancewear Construction (3) 6 hrs. lab. Skills and techniques unique to the construction of costumes for dance; methods of working with stretch fabric and tutu construction; includes construction, cutting, fitting, design analysis, and adaptations necessary for dance performance.

3126 Costume Rendering (3) 2 hrs. lecture; 2 hrs. lab. Drawing and painting costumes for the theatre; emphasis in color, pattern, texture, silhouette.

3130 Script Analysis (3) *Prereq.: THTR 2028.* Methods of studying playscripts in preparation for their production on stage through an examination of modernist scripts.

3134 Scenery and Properties Construction (3) *Prereq.: THTR 2022 and 2024.* 2 hrs. lecture; 2 hrs. lab. Examination and application of construction techniques and methodology as they apply to theatrical scenery and properties.

3320 Introduction to Nonprofit Arts Management (3) Overview of the organizational structure and operations of arts and cultural institutions, specifically those organized as non-profits.

3340 Marketing the Arts (3) Lecture and discussion, case analysis, service learning application of marketing concepts to not-for-profit arts organizations.

3435 Scene Painting I (3) *Prereq.: THTR 2022, 2024.* 1 hr. lecture; 4 hrs. lab. Contemporary scene painting for the stage; emphasis on tools, materials, basic techniques, and color theory.

3530 Stage Sound Technology (3) *Prereq.: THTR 2022, 2024.* 2 hrs. lecture; 2 hrs. lab. Introduction to the equipment, techniques, and methods used in stage sound and audio; includes work in the areas of computer control and editing of sound, live sound reinforcement, and recording techniques in both the analog and digital formats.

3531 Stage Lighting Technology (3) *Prereq.: THTR 2022, 2024.* 2 hrs. lecture; 2 hrs. lab. Introduction to the technical and mechanical elements of stage lighting technology in both analog and digital formats.

3800 Theatre or Film Internship (3) *Prereq: consent of instructor. May be repeated for a max. of 6 sem. hrs. credit. Pass-fail grading.* Study with an approved theatre or film company; emphasis may be in one or all of the following areas: performance, directing, design, technology, dramaturgy, stage management, administration, box office, or casting.

3802 Dance Composition (3) Fundamental elements and principles of choreography.

3803 Improvisation (3) Structural problems and exploration in dance improvisation.

3830 Technical Drafting for the Theatre (3) *Prereq.: THTR 2022, 2024.* 2 hrs. lecture; 2 hrs. lab. Drafting conventions and techniques used for depicting common scenic elements.

3900 Selected Topics in Theatre (3) *Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary. Consult Schedule of Classes for current offering.*

4008 Writing Drama (3) *See ENGL 4008.*

4020 Women and Theatre (3) Survey of western drama by and about women; female characters and playwrights in past and present drama of Europe and America.

4023 Advanced Costume Construction Techniques for the Stage (3) *Prereq.: THTR 3123.* 6 hrs. lab. A continuation of THTR 3123. Skills and techniques unique to the construction of costumes for the stage; methods of planning and construction of costumes for the theatre with emphasis on the differences between theatrical costume construction and clothing construction for the consumer market; historical construction, patterning, cutting, fitting, design analysis, and adaptations for stage performance.

4024 Directing I (3) *Prereq.: THTR 2022, 2025, and 2028; or equivalent.* Director's problems of script analysis, characterization, and scene visualization.

4025 Acting: Scene Study (3) *Prereq.: THTR 3025.* 2 hrs. lecture; 3 hrs. lab. *Open only to Theatre performance majors.* Technique of developing an actor's score for a role.

4029 Special Topics in Stage Movement (3) *Prereq.: THTR 3029 and permission of instructor. Theatre majors in the performance area of concentration only.* 2 hrs. lecture; 2 hrs. lab. *May be taken for a max. of 6 sem. hrs. of credit when topics vary.* Advanced techniques in stage movement.

4120 Drama from Aeschylus to Ibsen (3) *Prereq.: THTR 2028.*

4121 Drama from Ibsen to the Present (3) *Prereq.: THTR 2028.*

4123 Costume Design (3) Principles of design related to stage costumes; design research, creative interpretation; adapting costumes to theatrical styles of production; inspiration from designs of the past.

4124 Scenic Design (3) Basic principles of scenic design for the theatre: form, style, color, and lighting; sketches, renderings, and models.

4125 Directing II (3) *Prereq.: THTR 4024 or equivalent.* Principles of play selection, concept formulation, casting, rehearsal, and directing plays and scenes in workshop performance.

4126 Advanced Costume Design (3) *Prereq.: THTR 3126 and 4123.* Continuation of THTR 4123 concentrating on the development of a body of costume design research, conceptual choices, and advanced costume design techniques.

4127 Styles of Acting (3) *Prereq.: THTR 4025 and permission of department.* Fundamental techniques of acting; acting styles required by plays of the Greek, neoclassical, Elizabethan, and modern periods.

4128 Mask Making (3) 2 hrs. lecture; 2 hrs. lab. Skills used in basic mask construction for theatre; includes life casting and four common mask-making techniques with their distinct properties.

4131 Seminar: Contemporary Theatre and Drama (3) *Su May be taken for a max. of 6 hrs. of credit when topics vary.* Selected topics in the contemporary theatre.

4132 Theatrical Hair and Makeup (3) *Prereq.: THTR 2023 or equivalent;* 6 hrs. lab. Advanced principles of makeup for stage and film, including prosthetic makeup techniques and airbrush makeup; study and execution of period makeup and hairstyles, including basic wig and facial hair construction, and wig styling.

4134 Advanced Scenery Construction (3) *Prereq.: THTR 3134 or equivalent.* 2 hrs. lecture; 2 hrs. lab. An advanced examination into the construction of both theatrical and nontheatrical scenery.

4135 Structures and Materials for the Stage (3) *Prereq.: THTR 3134 or equivalent.* A detailed study of structural methods and materials available to the theatre technician.

4136 Theatre Practicum II (1) *May be taken for a max. of 3 hrs. of credit. No more than a total of 3 hrs. of THTR 2026 and 4136 may be taken for undergraduate credit.* Participation in performance or production of a play produced by the Department of Theatre.

4144 Performance Art (3) *See CMST 4144.*

4220 Black Drama and Theatre (3) *Also offered as ENGL 4220.* Study of the form and characteristic features of black drama and theatre, as expressed in African and New World cultures.

4300 Special Topics in Arts Administration (3) *Prereq.: consent of instructor. May be taken for a max. of 9 sem. hrs. of credit when topics vary.*

4320 Advanced Fundamentals of Nonprofit Arts Management (3) *Prereq.: THTR 3320 or consent of instructor.* Continued study of the principles of nonprofit arts management with emphasis on the economics of the arts

including the income gap, the economic impact of the industry, and the importance of arts advocacy.

4350 Advanced Development Strategies (3) *Prereq.: THTR 3320 or consent of instructor.* Principles of fund raising for the not-for-profit organization including grant writing, individual and corporate giving, planned giving, capital campaigns, and special events.

4435 Scene Painting II (3) *Prereq.: THTR 3435 or equivalent.* 1 hr. lecture; 4 hrs. lab. (IA) Contemporary scene painting for the stage; emphasis on advanced projects.

4436 History of Theatrical Design (3) *Prereq.: THTR 2022.* Historical survey of theatre with emphasis on the development of lighting, costume and scenic design for the Greek theatre to the present; focus on individual designers important to each discipline.

4500 Musical Theatre Production (1-3) *See MUS 4500.*

4530 Sound Design (3) *Prereq.: THTR 3530 or consent of instructor.* 2 hrs. lecture; 2 hrs. lab. Sound design principles and techniques; their effect on production.

4531 Lighting Design I (3) Lighting design for the theatre; emphasis on script analysis, production concepts, and visual ideas.

4801 Dance History (3) *Prereq.: THTR 1800 or consent of instructor.* Development of dance from primitive cultures to the present.

4804 Dance Theatre (2) 6 hrs. lab. *May be repeated for credit every semester. Admission by audition.* Experienced modern dancers participate in modern dance theatre as lead dancers and as choreographers.

4820 Advanced Stage Management (3) *Prereq.: THTR 2020 or equivalent.* Advanced training in stage management techniques, including professional experience component with departmental approval.

4831 CAD Drafting for the Theatre (3) *Prereq.: THTR 3830 or equivalent.* 2 hrs. lecture; 2 hrs. lab. Introduction to the fundamentals of AutoCAD drafting and its use in the theatre industry.

4901 Special Projects in Theatrical Design (1-3) *Prereq.: consent of instructor.* 2-6 hrs. lab. *Approval of projects required by instructor prior to registration.* Execution of practical production projects in theatrical design.

4902 Special Projects in Theatrical Technology (1-3) *Prereq.: consent of instructor.* 2-6 hrs. lab. *Approval of production projects required by instructor prior to registration.* Execution of practical production projects in theatrical technology.

7001 Independent Projects in Performance Training (1-6) *Prereq.: consent of instructor. May be repeated for a max. of 6 sem. hrs. of credit.* Individual projects in performance training with close faculty supervision; emphasis may be in one or all of the following areas: acting, movement, voice, directing, or dance.

7008 Drama Writing (3-6) *See ENGL 7008.*

7130 Script Analysis and Dramaturgy (3) Methods of studying playscripts in preparation for their production on stage, through Aristotelian, modern, and postmodern approaches.

7220, 7221 Acting Studio IA, IB (5,5) *Prereq.: admission to MFA acting program.* 4 hrs. lecture; 2 hrs. lab. (IA) Intensive work in actor's basic tools; text analysis; comprehensive Stanislavskian technique and characterization. (IB) Emphasis on scene work from the modern repertoire; auditioning.

7222, 7223 Acting Studio IIA, IIB (4,4) *Prereq.: THTR 7221.* (IIA) Acting demands of Greek and Shakespearean drama; scene work with selected texts. (IIB) Acting demands of *commedia dell'arte*, comedy of manners, and farce; scene work with selected plays.

7224, 7225 Acting Studio IIIA, IIIB (2,2) *Prereq.: THTR 7223.* (IIIA) Special acting problems and stretch roles. (IIIB) Problems in audition techniques and building a career as a professional actor.

7227 Voice for the Actor I (3) *Prereq.: admission to the MFA program.* 2 hrs. lecture; 2 hrs. lab. Development of vocal process through exercises in relaxation, alignment, and breathing; basics in speech articulation.

7228 Voice for the Actor II (3) *Prereq.: admission to the MFA program.* 2 hrs. lecture; 2 hrs. lab. Further development for the actor's resonance, pitch, range, and articulation; improvisations with texts.

7229, 7230, 7231 Voice for the Actor III, IV, V (3,3,2) *Prereq.: THTR 4228 or equivalent.* 2 hrs. lecture; 2 hrs. lab. (III) Dynamics of vocal range in more complex texts; work on major periods of dramatic literature; emphasis on verse plays. (IV) Dialects and special problems in vocal characterization. (V) Individual coaching in scene study from THTR 7224 and in support of performance problems.

7233 Stage Movement III (4) *Prereq.: admission to MFA program or consent of instructor.* 3 hrs. lecture; 2 hrs. lab. Preparation and integration of the actor's body in spatial awareness, flexibility, realignment, gesture, and body

composition.

7234 Stage Movement IV (3) *Prereq.: admission to MFA program or consent of instructor. 3 hrs. lecture; 1 hr. lab.* Continuation of THTR 7233 with additional work on ballet, Tai Chi, physical improvisation, and dance.

7235, 7236 Stage Movement V, VI (3,3) *Prereq.: THTR 7234 or equivalent. 2 hrs. lecture; 2 hrs. lab.* (V) Unarmed and armed stage combat techniques. (VI) Period styles: manners, mores, dance forms, and social understandings in movement for major epochs of theatre from the Dark Ages through the 18th century; advanced stage combat.

7237, 7238 Stage Movement VII, VIII (3,3) *Prereq.: THTR 7236 or equivalent. 2 hrs. lecture; 2 hrs. lab.* (VII) Continued movement styles with focus on Greek, *commedia dell'arte*, 19th century, and experimental theatre. (VIII) Exposure to major trends in movement as performance material.

7320, 7321 Directing Seminar IA, IB (3,3) *Prereq.: admission to MFA directing program or consent of instructor. 2 hrs. lecture; 2 hrs. lab.* (IA) Stage director's study of a script in preparation for creating an approach to production. (IB) Translating a play's text and director's approach into dynamic images on stage; one act of a realistic play mounted on workshop level.

7322, 7323 Directing Seminar IIA, IIB (3,3) *Prereq.: THTR 7321.* (IIA) Director's approach to varying styles of production. (IIB) Director's approach to Shakespearean and Jacobean drama; acts from plays presented on the workshop level.

7324, 7325 Directing Seminar IIIA, IIIB (2,2) *Prereq.: THTR 7323.* (IIIA) Current practices in directing techniques in world theatre. (IIIB) Current practices in directing techniques in American theatre.

7420 Director/Designer Communication (3) *Prereq.: admission to MFA program or consent of instructor.* Methods of communication between directors and designers explored through a series of pre-production projects.

7421 Advanced Scene Design I (3) *Prereq.: admission to MFA design technology program or consent of instructor.* Preparation and presentation of scene design projects; emphasis on script analysis, developing the ground plan and elevations.

7422, 7423 Advanced Scene Design IIA, IIB (4,4) *Prereq.: THTR 7421.* (IIA) Preparation and presentation of scene design projects; emphasis on period and style. (IIB) Emphasis on opera, ballet, musical theatre.

7431, 7432 Rendering for the Theatre IA, IB (3,3) *Prereq.: admission to MFA design technology program or consent of instructor. 1 hr. lecture; 4 hrs. lab.* (IA) Drawing and rendering techniques for scenic, costume, and lighting designers; emphasis on basic design elements and use of various media. (IB) Emphasis on methods of presentation.

7441 Computer Techniques for the Theatre (3) *Prereq.: admission to MFA in Theatre program or consent of instructor.* Examines the various ways the computer is used in theatre, specifically in the area of stage properties. Printing, plotting, and various computer programs are included in the curriculum.

7518 Studies in American and European Dress (3) *See also HUEC 7518. May be taken for a max. of 6 sem. hrs. of credit when topics vary.*

7519 Seminar in American Dress: 18th Century to 1880 (3) *See HUEC 7519.*

7520 Seminar in American Dress: 1880 to Present (3) *See HUEC 7520.*

7521, 7522, 7523 Advanced Costume Design I, II, III (4,4,4) *Prereq.: admission to MFA design technology program or consent of instructor. 3 hrs. lecture; 2 hrs. lab.* (I) Preparation of advanced costume design projects; emphasis on script analysis, characterization, and problem solving. (II) Emphasis on designing entire production projects to achieve unity, coherence, and style. (III) Emphasis on ballet, opera, musical theatre.

7524 Advanced Costume Technology I (3) *Prereq.: admission to MFA design/technology program or consent of instructor. 6 hrs. lab.* Advanced problems in the planning and construction of historical costumes for the theatre, with emphasis on pattern drafting and draping.

7525, 7526, 7527 Advanced Costume Technology II, III, IV (3,3,3) *Prereq.: admission to MFA design technology program or consent of instructor.* (II) Advanced planning and construction of costumes for the theatre; emphasis on historical construction, cutting, and tailoring. (III) Emphasis on selection, modification, and preparation of fabrics for stage costumes. (IV) Emphasis on costume accessories including millinery, footwear, armor, and jewelry.

7601 Scene Shop Technologies and Theatre Safety I: Woodworking (3) Introduction to traditional and modern materials (primarily wood and plastic products); construction tools; techniques for executing theatrical constructs; shop organization and management; theatre safety; and occupational health.

7602 Scene Shop Technologies and Theatre Safety II: Metalworking (3) Introduction to traditional and modern materials (primarily metal products); construction tools;

techniques for executing theatrical constructs; shop organization and management; theatre safety; and occupational health are covered.

7610 Structural Design for the Stage I (3) Develops student understanding and skills for analyzing loading conditions on scenic elements and engineering a structural design for executing these elements.

7611 Structural Design for the Stage II (3) *Prereq.: THTR 7610.* Continuation of the concepts presented in THTR 7610.

7615 Theatrical Production Planning (3) The management of the theatrical production process. Investigation of the labor and material cost budgeting for each of the production areas.

7618 Entertainment Rigging (3) Introduction to traditional rigging techniques for the stage, arena and outdoor venues.

7620 Stage Machinery Physics (3) Examination of Newtonian dynamics to aid in determining the behavior of moving scenery. Understanding how the components of a stage machine system are specified to withstand the forces encountered.

7621 Hydraulics and Pneumatics in Theatre (3) *Prereq.: THTR 7620.* 2 hrs. lecture; 2 hrs. lab. Examination of fluid and gas power systems for moving scenery. Topics include fluid power calculations laws and formulas related to pneumatics and hydraulics as well as delivery systems, actuators and valving.

7622 Scenery Automation (3) *Prereq.: THTR 7620.* 2 hrs. lecture; 2 hrs. lab. Examination of scenery control systems, including PLC programming, positioning control, software and all in-one control systems.

7623, 7624 Theatre Technology Seminar IA, IB (3,3) *Prereq.: admission to MFA design technology program.* (IA) Advanced techniques used on stage and in the scene shop. (IB) Techniques using electronics and optics for the stage.

7625, 7626 Theatre Technology Seminar IIA, IIB (3,3) *Prereq.: admission to MFA design technology program.* (IIA) Emphasis on theatre architecture and theatrical consulting. (IIB) Emphasis on roles and responsibilities of the technical director and on preparation to enter the professional world.

7630 Directed Professional Internship (1-12) *Prereq.: third-year status in theatre MFA program. 2-24 hrs. lab. Pass-fail grading.* A theatre-related internship with a professional organization or business (lighting manufacturer, professional theatre, computer company).

7721 Lighting Design II (3) *Prereq.: admission to MFA design technology program or consent of instructor.* Process of lighting design, lighting equipment, and assistant designer skills.

7722, 7723 Lighting Design III, IV (4,4) *Prereq.: THTR 7721 or equivalent. 3 hrs. lecture; 2 hrs. lab.* (III) Elements of lighting design explored through use of the light lab. (IV) Complete presentations of lighting designs for various types of productions.

7801 Properties I (3) *Prereq.: admission to MFA in Theatre program or consent of instructor. 1 hr. lecture; 4 hrs. lab.* A detailed examination of basic materials, techniques, and procedures used by the designer and technician in the construction of stage properties.

7802 Properties II (3) *Prereq.: THTR 7801, admission to MFA in Theatre program or consent of instructor. 1 hr. lecture; 4 hrs. lab.* A continuation of the concepts presented in THTR 7801.

7821 Furniture and Woodworking I (3) *Prereq.: admission to MFA in Theatre program or consent of instructor. 1 hr. lecture; 4 hrs. lab.* Advanced studies in woodworking technologies including materials, construction techniques, and styles. Care and repair of furniture is included in the curriculum.

7822 Furniture and Woodworking II (3) *Prereq.: THTR 7821, admission to MFA in Theatre program or consent of instructor. 1 hr. lecture; 4 hrs. lab.* Continuation of the concepts presented in THTR 7821.

7831 Advanced Properties I (3) *Prereq.: THTR 7801 and 7802.* Engagement in projects that occur in productions under construction.

7832 Advanced Properties II (3) *Prereq.: THTR 7831.* Continuation of concepts covered in THTR 7831.

7900 Introduction to Graduate Study in Theatre (3) *Prereq.: admission to the MA/PhD program in theatre.* Research and bibliographic skills for students of theatre history, dramatic literature, theory, and criticism.

7901 Issues in Ancient Theatre and Performance (3) Survey of issues related to history, dramatic literature and theatre criticism of the Ancient World, including Greece, Rome, and Asia.

7902 Issues in Medieval and Renaissance Theatre and Performance (3) Survey of issues related to history, dramatic literature, and theatre criticism found in Medieval and

Renaissance Europe, Asia, and Americas.

7903 Issues in 17th and 18th Century Theatre and Performance (3) Survey of issues related to history, dramatic literature, and theatre criticism founded in 17th and 18th century Europe, America, and Asia.

7904 Issues in 19th Century Theatre and Performance (3) Survey of issues related to history, dramatic literature, and theatre criticism found in 19th century Europe, America, and Asia.

7910 Seminar in Drama: Classical to Renaissance (3) *May be taken for a max. of 6 hrs. of credit when topics vary.*

7911 Seminar in Drama: Renaissance to Realism (3) *May be taken for a max. of 6 hrs. of credit when topics vary.*

7912 20th Century First-Wave Avant-Garde Drama and Performance (3) Survey of dramatic and performance practices in the first half of the twentieth century with emphasis on European and American first-wave avant-garde.

7913 Seminar in American Drama: 18th Century to the Present (3) *May be taken for a max. of 6 hrs. of credit when topics vary.*

7914 Drama and Performance: World War II to the Millennium (3) Survey of world performance and drama traditions from the end of World War II to the end of the twentieth century.

7920 Seminar in Drama of the African Diaspora (3) *May be taken for a max. of 6 hrs. credit when topics vary.*

Contextualizing forms and expressions of drama in the black cultures of the African diaspora in the New World.

7921 Practicum in Theatre Directing (3) 2 hrs. lecture; 3 hrs. lab. *May be taken for a max. of 6 hrs. of credit when topics vary.* A specific theatrical form and style studied through research, direction of a one-act play, and participation in a specific Department of Theatre production.

7922 Seminar: Performance Theories and Criticism (3) *May be taken for a max. of 6 hrs. of credit when topics vary.*

7923 Seminar in Gender, Sexuality, and Performance (3) Survey of practical and theoretical approaches, attitudes, and debates regarding issues of gender and sexuality as they relate to performance.

7924 Seminar: Evolution of Dramatic Theory (3) *May be taken for a max. of 6 sem. hrs. of credit when topics vary.* Major concepts of dramatic theory and practice in classical, medieval, and Renaissance periods.

7925 Seminar: Evolution of Dramatic Theory (3) *May be taken for a max. of 6 sem. hrs. of credit when topics vary.* Major concepts of dramatic theory and practice in the European and American modern period.

7926 Seminar in African Drama and Theatre (3) *May be taken for a max. of 6 credit hours when topics vary.* Comparative study of the form and expressions of drama among the various cultures of Africa.

7927, 7928 Problems in Theatre History (3,3) *Each course may be taken for a max. of 6 hrs. of credit.* Study of a selected figure, period, or trend in the history of the theatrical arts.

7929 Independent Research: Theatre (1-3) *Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. credit. For advanced graduate students who wish to pursue research on special problems exclusive of thesis or dissertation.*

7930 Theatre Production (1-12) *Prereq.: admission to MFA theatre program. 2-24 hrs. lab.* Major acting, directing, design, or technical responsibility for one or more LSU productions.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

UNIVERSITY • UNIV

Unique courses of timely and general interest are offered periodically as "University" courses. These courses are interdisciplinary, broad in scope, and centered on topics of current concern. Permission to offer a UNIV course must be obtained from the Office of Academic Affairs and the course must be approved by the Faculty Senate Courses and Curricula Committee. University courses may not be offered more than twice (with the exception of *The Boyd Professor Lecture Series*). Each course carries undergraduate credit of one to three semester hours. Acceptance of such credit toward fulfillment of degree requirements is decided by the faculty of each college or school within the University. The topic, credit, and class time of each University course are announced by the Office of Academic Affairs prior to the beginning of the semester in which the course is to be taught.

University courses have been offered on such topics as *The Constitution: Then and Now* (1987), *The Age of the French Revolution* (1989), *Diversity in America* (1990), *The Holocaust* (1992), *Political Communication* (1993), *Race Relations* (1995), and *The Boyd Professor Lecture Series* (2000).

UNIVERSITY COLLEGE • UC

0006 Study Skills (2) For students in Student Support Services Program only. Not for degree credit. Pass-no credit grading. Permission of instructor. Basic learning principles; includes time management, goal setting, note-taking, listening skills, reading, theme and report writing, memory, and analyzing study problems.

0050 Introduction to Mentoring, Education, and Research (2) F,S For first-year students in HHMI Professors Program or LA-STEM Research Scholars Program only. Not for degree credit. Pass-no credit grading. May be taken for a maximum of 4 semester hours of credit. Students will be mentored as they prepare to become mentors and researchers. Introduction to college success tools, including learning strategies, time management, and organization.

0060 Pursuing Mentoring, Education, and Research (2) F,S Prereq.: UC 0050 or permission of instructor. For second-year students in the HHMI Professors Program or LA-STEM Research Scholars Program only. Not for degree credit. Pass-no credit grading. May be taken for a maximum of 4 semester hours of credit. Students continue to implement the college success tools gained in UC 0050 and will gain skills needed to obtain research. Students will assess various applications of terminal degrees in their chosen discipline and will engage in peer mentoring.

0070 Success in Mentoring, Education, and Research (2) F,S UC 0060 or permission of instructor. For third-year students in HHMI Professors Program or LA-STEM Research Scholars Program only. Not for degree credit. Pass-no credit grading. May be taken for a maximum of 4 semester hours of credit. Students will gain skills needed for graduate school marketability and preparation, and will expand their mentoring projects and community involvement, engaging in peer mentoring.

0080 Advancing in Mentoring, Education, and Research (1) F,S Prereq.: UC 0070 or permission of instructor. For fourth or fifth year students in HHMI Professors Program or LA-STEM Research Scholars Program. Not for degree credit. Pass-no credit grading. May be taken for a maximum of 4 semester hours of credit. Students will serve as leaders within the program and in the community. They will enhance presentation skills, finalize graduate school preparation, and engage in peer mentoring.

UNIVERSITY STUDIES • UNST

3900 Interdisciplinarity (3) Prereq.: Senior standing in the College of Arts & Sciences as a general studies major. Study of interdisciplinary approaches in the sciences, social sciences, arts, and humanities; analysis of combinations of disciplinary approaches.

VETERINARY CLINICAL SCIENCES • VCS

7001 Seminar: Veterinary Clinical Sciences (1) V Prereq.: DVM or equivalent degree or consent of instructor. May be taken for a max. of 8 hrs. of credit when topics vary. New

developments in veterinary internal medicine, surgery, dermatology, ophthalmology, cardiology, neurology, theriogenology, and laboratory/exotic animal medicine.

7002 Research Techniques in Veterinary Clinical Sciences (1-4) Prereq.: appropriate 4000- or 5000- level course in selected topic or equivalent and consent of instructor. May be taken for a max. of 6 sem. hrs. when topics vary. Specialized research techniques related to a specific discipline of veterinary clinical sciences.

7003 Special Topics in Veterinary Clinical Sciences (1-4) Prereq.: appropriate 4000- and 5000- level course in selected topic or equivalent and consent of instructor. May be taken for a max. of 8 sem. hrs. of credit when topics vary. Aspects of the biochemical, physiological, pathophysiological, epidemiological and economic basis of clinical veterinary medicine.

7201 Veterinary Gastroenterology (2) V Prereq.: DVM or equivalent degree or consent of instructor. Gastrointestinal diseases and related conditions; emphasis on diagnostics, pathophysiology, and management options.

7202 Veterinary Surgical Techniques (1) V Prereq.: DVM or equivalent degree or consent of instructor. 3 hrs. lab. May be taken for a max. of 6 hrs. of credit when topics vary. Advanced surgical and experimental techniques related to an organ system.

7204 Advanced Veterinary Orthopedics (2) V Prereq.: DVM or equivalent degree or consent of instructor. Bone, muscle, tendon, and ligament diseases with emphasis on pathophysiology, diagnostics, and management options.

7205 Advanced Veterinary Clinical Neurology (2) V Prereq.: DVM or equivalent degree or consent of instructor. Diseases of the central and peripheral nervous system with emphasis on pathophysiology, diagnostics, neurosurgery, and other management options.

7206 Advanced Veterinary Urogenital Disease (2) S Prereq.: DVM or equivalent degree or consent of instructor. Urinary and reproductive tract diseases and related conditions with emphasis on pathophysiology, diagnostic, and management options.

7208 Advanced Veterinary Cardiovascular Disease (2) V Prereq.: DVM or equivalent degree or consent of instructor. Cardiovascular diseases and related conditions with emphasis on pathophysiology, diagnostic and management options.

7209 Advanced Veterinary Respiratory Disease (2) V Prereq.: DVM or equivalent degree or consent of instructor. Respiratory diseases and related conditions with emphasis on pathophysiology, diagnostic and management options.

7210 Veterinary Scientific Journal Review (1) Prereq.: DVM or equivalent degree or consent of instructor. May be taken for a max. of 6 sem. hrs. of credit. In depth critique of current veterinary journals with emphasis on appraising experimental design and analysis; and interpretation and application of results.

7211 Advanced Veterinary Cardiorespiratory Disease (3) Prereq.: DVM or equivalent degree or consent of instructor. Cardiovascular and respiratory diseases and related conditions with emphasis on pathophysiology, diagnostic, and management options.

7212 Biomechanics of Fractures and Fracture Fixation (3) Prereq.: Permission of instructor. Principles of biomechanics as applied to fractures and fracture fixation, including design and biomechanical testing devices for fixation of bone fractures arising in veterinary orthopedic surgery.

VETERINARY MEDICINE • VMED

Courses in the professional curriculum are designated as Veterinary Medicine (VMED) courses, rather than departmental courses, because of the integration of the disciplines. These courses, all at the 5000 level, are described in the School of Veterinary Medicine Bulletin. Prerequisite for enrollment in these courses is formal admission to the professional curriculum in the School of Veterinary Medicine. All courses must be taken in the proper sequence, as each is a prerequisite for the succeeding course. The following courses are utilized by all concentrations in the Veterinary Medical Sciences graduate program.

7001 Seminar: Veterinary Medical Sciences (1) May be taken for a max. of 8 hrs. of credit. Reports and discussions on topics of current interest in various disciplines of veterinary medicine.

7004 Introduction to Research (2) F Prereq.: consent of instructor. Concepts and methodology in developing research programs; selection of a research problem; planning, execution, and publication of original research.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Pre-dissertation Research (1-9) May be taken for a max. of 9 sem. hrs. of credit.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

VETERINARY SCIENCE • VETS

2000 Anatomy and Physiology of Farm Animals (3) F Anatomy and physiology of farm animals; important species differences.

2020 Herd Health and Disease Management of Domestic Farm Animals (3) S Herd health program of preventive medicine for farm livestock; disease processes, epidemiology, and rational approaches to therapeutic principles and control of diseases.

3002 Practical Work with Livestock (1) S 3 hrs. lab. Dehorning, castration, branding, methods of restraint, and methods for control of parasites.

WOMEN'S & GENDER STUDIES • WGS

General education courses are marked with stars (★).

1001 Evolution of Sex and Gender (3) Interdisciplinary course, team-taught by faculty in the physical and social sciences. Covers evolution as differential reproduction; reproduction-related earth history highlights; genetics of sex; animal reproduction strategies; anatomy and physiology of human reproductive systems; evolutionary trajectories in primates; sex and gender in human prehistory and in culture.

★ **2500 Introduction to Women's & Gender Studies (3)** Interdisciplinary study of women's lives: work, family, sexuality, economic development, political and social change; variance in sex roles among cultural groups and in different historical periods.

★ **2501 HONORS: Introduction to Women's & Gender Studies (3)** Same as WGS 2500, with special honors emphasis for qualified students.

★ **2900 Gender, Race, and Nation (3)** The constructs of gender and sexuality across diverse racial, ethnic, cultural, and class boundaries.

3150 Survey of Feminist Theory (3) Interdisciplinary study of a range of feminist theories through which to consider the roles of women, gender, and sexuality.

3600 Women, Gender, and Leadership (3) Also offered as ELRC 3600. Interdisciplinary study of gender and leadership; with emphasis on women as leaders in a range of settings in education and society.

4028 Gender and American Politics (3) See POLI 4028.

4087 Gender, Place and Culture (3) See GEOG 4087.

4500 Special Topics in Women's & Gender Studies (3) Prereq.: WGS 2500. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Issues central to contemporary feminist inquiry.

4900 Independent Reading and Research in Women's & Gender Studies (3) Prereq.: WGS 2500 and permission of instructor and department. May be taken for a max. of 6 sem. hrs. when topics vary. Reading and research on selected topics that emphasize feminist interdisciplinary approaches.

7150 Seminar in Feminist and Gender Theory (3) Topics in recent and contemporary theory in a range of disciplines including the humanities, social sciences, natural and physical sciences, design, and education; students are encouraged to develop research projects relevant to their primary disciplines and to their research interests.

7900 Independent Reading and Research in Women's & Gender Studies (3) S May be taken for a max. of 6 sem. hrs. of credit.

Alumni Relations • Development

Private support of Louisiana State University is led by a consortium of three independent foundations, each with its own governing board, staff, and unique mission. In addition, many academic units of the University have volunteer development councils and "friends" groups who focus on the special interests of the units.

LSU ALUMNI ASSOCIATION

CHARLIE W. ROBERTS, JR., *President & CEO*
CLIFF VANNOY, *Executive Vice President*

Lod Cook Alumni Center
3838 West Lakeshore Drive
TELEPHONE • 225-578-3838 or
1-888-RINGLSU
FAX • 225-578-3816
WEB SITE • www.lsualumni.org

Since its establishment in 1905, the mission of the *LSU Alumni Association* (LSUAA) has been to protect, promote, and foster the welfare of LSU and to create and nurture mutually beneficial relationships between the University and its alumni and friends. The association, using the talents and resources of alumni and friends of LSU, supports the University in pursuit of excellence in teaching, research, and public service to future and current alumni.

The LSU Alumni Association is a nonprofit organization whose members are graduates, former students, and friends of LSU. Active membership may be obtained through an annual contribution of \$50 or more to the Alumni Fund. Membership benefits include a subscription to *LSU Alumni Magazine* and discounts at the Shelton Gift Shop and the University Golf Course, The Cook Hotel, and car and moving van rentals. Members may participate in group travel, various insurance offerings, join the Campus Federal Credit Union, and apply for an LSUAA Gold or Platinum Plus MasterCard with no annual fee. In addition, members are entitled to limited use of several University facilities.

Alumni gifts generated through the Alumni Fund support the operation of its programs of academic excellence, including the Alumni Scholars Program and other academic scholarships; alumni professorships; various other faculty awards; and seminars, workshops, and meetings.

The association, headquartered in the Lod Cook Alumni Center, hosts alumni homecoming celebrations, reunions, campus visitations, and chapter programs throughout Louisiana, the U.S., and abroad each year. Awards for outstanding individual achievement and service sponsored by the LSUAA include the *LSU Alumnus of the Year*, the University's highest alumni honor; the *LSU Hall of Distinction*; *Young Alumnus of the Year*; and *Chapter Service Awards*. Extraordinary philanthropy is recognized and acknowledged with the prestigious *Purple and Gold Awards*.

The LSU Alumni Association manages and operates The Cook Hotel on the campus of LSU. Opened in October 2001, the hotel is located directly behind the Lod Cook Alumni Center. The hotel is open to the public and offers 128 first-class rooms and suites. In addition to the meeting rooms in The Cook Hotel, the Lod Cook Alumni Center offers 12,000 square feet of meeting space for conferences, seminars, workshops, receptions, lectures, and banquets. Catering is

provided by Unique Cuisine Catering, the official caterer of the LSUAA. For conference or event bookings, call 225-578-3829. Individual or group hotel room reservations may be placed by calling toll-free 866-610-2665 or by logging on to www.thecookhotel.com.

The John and Rose Ann Shelton Gift Shop offers the very best in LSU attire, gifts, and accessories. Conveniently located in The Cook Hotel, shoppers are invited to visit the store Monday through Saturday from 8 a.m. to 5 p.m. Items can also be viewed and purchased via the Web site at www.lsualumni.org. For more information, contact the gift shop at 225-383-0241.

The newest addition to the LSU Alumni Association Complex is the Jack and Priscilla Andonie Museum. Dedicated on May 25, 2004, the museum houses a spectacular display of historical LSU sports memorabilia donated by the Andonie family. The current exhibit is titled "LSU, Home of Champions." For more information, consult the LSUAA Web site or call 578-3828.

The Alumni Association, organized on both academic and geographic lines, offers membership in alumni chapters and academic affiliate chapters nationwide. The organization is governed by its Board of Directors, which formulates and administers policy for the association. Additional information concerning membership in the Alumni Association, its subsidiaries, or programs may be obtained by contacting the LSU Alumni Association at 888-RINGLSU or 225-578-3838 or www.lsualumni.org.

LSU FOUNDATION

WILLIAM G. BOWDON, *Major General, USMC (Ret.), President & CEO*

Lod Cook Alumni Center
3838 West Lakeshore Drive
TELEPHONE • 225-578-3811 or 1-800-452-7928
FAX • 225-578-0530
WEB SITE • www.lsufoundation.org
E-MAIL • donorservices@lsufoundation.org

Chartered in 1960, the LSU Foundation is a nonprofit, tax-exempt, private foundation composed of business, professional, and civic leaders concerned with the advancement of LSU. Inquiries concerning LSU Foundation membership, current contribution priorities, assistance with estate planning, or other information are encouraged and welcomed.

The LSU Foundation fosters philanthropic support of the colleges and schools of the University, including capital gifts for endowments, facilities, special programs of educational excellence, and unrestricted funds for the highest priority needs of the University. The Foundation serves four units of the LSU System: LSU, the LSU Agricultural Center, LSU Law Center, and the Office of the President of the LSU System.

The LSU Foundation also manages most of the endowed funds and other assets donated by private individuals, corporations, and organizations for the benefit of the University.

The Foundation invests the funds for the benefit of specific purposes in the various colleges, schools, and departments of the University.

Gifts made through the LSU Foundation have provided many enhancements that would not have been available otherwise, including endowed chairs and professorships, distinguished lecture series, endowed scholarships, endowed fellowships, library resources, and awards programs for faculty, staff, and student achievement. The Foundation is the authorized agency for management of the 40 percent matching grants for chair and professorship endowments provided by the Louisiana Board of Regents Support Fund. Always, 100% of the donor principle donations, whether endowed or non-endowed, are used for its donor designated purpose.

Gifts made to LSU through the LSU Foundation may be designated by the donor for the highest priority needs of the University or a department, or may be restricted to specific uses. Endowments may be named by the donor. Gifts may also be included in the estate plans of individuals, using wills, trusts, insurance policies, and other planning methods. Gifts to the LSU Foundation are tax-deductible charitable contributions as allowed by law.

Further information may be obtained at www.lsufoundation.org. Confidential consultation is available upon request.

TIGER ATHLETIC FOUNDATION

RONALD G. RICHARD, Major General,
USMC (Ret), *CEO*

Maravich Assembly Center
TELEPHONE • 225-578-4823 or 800-644-4823
FAX • 225-578-0184
WEB SITE • www.lsutaf.org
www.mikethetiger.com
www.lsutigtour.com

Tiger Athletic Foundation (TAF) is a private, nonprofit corporation dedicated to supporting LSU and its Athletic Program. Louisiana State University has a proud athletic tradition, highlighted by scores of Southeastern Conference and NCAA championships in more than 20 men's and women's varsity sports. Thanks to the generosity of its members, TAF continues to play an integral role in sustaining that outstanding tradition. As the primary source of private funding for LSU athletics, TAF's mission is clear - to lead the university in building a comprehensively superior athletic program.

Among the recent accomplishments of the TAF is the \$110 million renovation to Tiger Stadium, which included the replacement of the west upper deck, the replacement of the chair back seats and the renovation of the east upper deck. In addition, TAF raised over \$18 million to construct the Cox Communications Academic Center for Student-Athletes, \$3 million to construct a state-of-the-art habitat for Mike the Tiger, and \$19 million for the new LSU Football Operations Center. TAF continues to raise funds to projects such as the new Alex Box Stadium and Tiger Park along with the Foundation of Champions Scholarship Endowment Program.

Administration

LSU, the flagship institution in the state, reports to the Board of Supervisors of Louisiana State University and Agricultural and Mechanical College. The Board of Supervisors is established by Article 8, Section 7, of the Louisiana Constitution and is granted authority and responsibility to “supervise and manage the institutions, statewide agricultural programs, and other programs administered through its system.”

The University is administered by the LSU System Office, which also oversees 10 other institutions as well as 10 public hospitals located throughout the state.

A listing of Web sites for the Board of Supervisors, the University System, and LSU's Administrative offices is available below.

To view the complete organizational chart for the University, please visit:
www.lsu.edu/orgchart.

BOARD OF SUPERVISORS

www.lsusystem.edu/boardofsupervisors

UNIVERSITY SYSTEM

www.lsusystem.edu

LSU ADMINISTRATIVE OFFICES:

Office of the Chancellor

www.lsu.edu/chancellor

Office of Academic Affairs

www.lsu.edu/academicaffairs

Communications & University Relations

www.lsu.edu/university_relations

Finance & Administrative Services

www.fas.lsu.edu

Research & Economic Development

www.research.lsu.edu

Strategic Initiatives

<http://osi.lsu.edu>

Division of Student Life

www.lsu.edu/studentlife

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Faculty

The *faculty* of the University is defined as full-time members of the academic staff having the rank of instructor or higher (or equivalent ranks).

DISTINGUISHED PROFESSORSHIPS

Boyd Professors

Faculty members who are designated as Boyd Professors have attained both national and international distinction for outstanding teaching, research, or other creative achievement. The Boyd Professorship is the *highest professorial rank* awarded by the University.

Alumni Professors

Selection as an Alumni Professor is based on reputation for excellence in instruction, especially in undergraduate teaching; record of active and continuing interest and participation in areas of professor-student relations; dedication to an academic field; and outstanding professional relationships with other faculty and staff members.

LSU Foundation Professors

Like the Boyd Professorship and the Alumni Professorship, LSU Foundation Professorships are University-wide awards. Funded through the generosity of the LSU Foundation, these professorships are awarded by the University in recognition of exemplary distinction in research, scholarship, and the arts.

For a complete and up-to-date list of professorships, please see the Office of Academic Affairs Web site at www.lsu.edu/academicaffairs/faculty.

GRADUATE FACULTY

The *graduate faculty* is composed of members of the teaching, research, and extension faculties who have been so designated by the Chancellor, upon the recommendation of the graduate council acting upon appropriate nominations. Faculty members can qualify, depending on their qualifications, for the following types of graduate faculty membership: full, associate, research affiliate, or professional affiliate.

Full Member

Privileges and Responsibilities

- Determine policies of the Graduate School.
- Engage in all graduate education activities.
- Nominate faculty for membership on the graduate faculty.
- Chair a thesis or dissertation committee.

Terms and Criteria

- Newly appointed associate professors with tenure or tenure track in units offering work for graduate credit are normally appointed to a seven-year full member term.
- Newly appointed full professors with tenure or tenure track in units offering work for graduate credit are normally appointed to a seven-year full member term.
- Full professors extended full membership following a seven-year term will normally be extended permanent full member status.
- Full members of the graduate faculty must possess the highest degree appropriate to the field or unquestionable evidence of comparable achievement in the field.
- To maintain graduate faculty status full members must demonstrate a current and sustained record of scholarly or creative activities indicated by publications in recognized journals in the field, books, and exhibitions of performances.

Associate Member

Privileges and Responsibilities

- Engage in all graduate education activities.
- Chair a thesis or dissertation committee.

Terms and Criteria

- Newly appointed tenure-track assistant professors in units offering work for graduate credit are normally appointed to a non-renewable, six-year associate member term.
- Faculty members with at least seven years in rank as associate professor or full professor who do not maintain full membership may be eligible for a renewable, three-year associate member term in units offering work for graduate credit.
- Faculty members who hold the rank of adjunct assistant professor, adjunct associate professor, or adjunct full

professor in a unit offering work for graduate credit are only eligible for a renewable, three-year associate member term.

- Associate members of the graduate faculty must possess the highest degree appropriate to the field or unquestionable evidence of comparable achievement in the field.
- To maintain graduate faculty status associate members must demonstrate a current and sustained record of scholarly or creative activities indicated by publications in recognized journals in the field, books, and exhibitions or performances.

Research Affiliate Member

Privileges and Responsibilities

- May serve as a member of thesis and dissertation committees but may not chair except by permission of the dean of the Graduate School.
- May engage in instructional activities at the masters and doctoral level.

Terms and Criteria

- Individuals nominated for research affiliate may be appointed to a renewable, three-year term.
- Research affiliate membership is available to individuals whose appointments reside in units not offering work for graduate credit or whose appointments are not tenure track.
- Research affiliate members must possess the highest degree appropriate to the field or unquestionable evidence of comparable achievement in the field.
- To maintain graduate faculty status research affiliate members must demonstrate a current and sustained record of scholarly or creative activities indicated by publications in recognized journals in the field, books, and exhibitions or performances.

Professional Affiliate Member

Privileges and Responsibilities

- May engage in instructional activities at the masters level.
- May not engage in instructional activities at the doctoral level except by permission of the dean of the Graduate School.
- May serve as a member of thesis committees but may not normally chair except by permission of the dean of the Graduate School.

Terms and Criteria

- Individuals nominated for professional affiliate by units offering work for graduate credit may be appointed to a renewable, three-year term based on evidence of expertise or knowledge that is directly relevant and applicable to the professional program in which the individuals will be teaching.

- Expertise is defined in terms of *recent* activities recognized by the focal area as indicative of excellence. Appropriate indicators may include but are not limited to: terminal degrees in focal or relevant areas; professional certification; licensure; diplomas, or record of professional practice; and demonstrated professional excellence through performances, exhibitions, presentations, professional publications, or national awards.
- Normally, a person who is eligible for full or associate graduate faculty status is ineligible for professional affiliate status.
- Individuals whose professional activities are a function of their LSU employment are normally ineligible for professional affiliate status.

For a complete and up-to-date list of graduate faculty members, please see the Graduate School Web site at www.lsu.edu/gradschoolfaculty.

A complete Faculty Listing is included after the Index on PDF pages 361-420.

Glossary

The following are definitions of terms that may be used throughout this *General Catalog*.

Academic Load • The total number of semester hours for which a student is registered in one semester or summer term.

Academic Year • The period consisting of fall and spring semesters.

Advanced Standing • Academic credit for one or more courses awarded to beginning freshmen upon their successful performance on an examination.

Approved Elective • Elective that is not open to the free choice of the student.

Audit • To enroll in a course for no credit.

Center for Freshman Year • The division in University College in which most freshman students enroll. The freshman year in the center and the following three years in one of the senior colleges represent the normal time required for completion of a baccalaureate degree program.

Colleges and Schools • The academic units of the University that offer academic degree programs; administered by deans or directors and staffed by faculty members. The type of training and the degree anticipated determine the student's choice of school or college.

Concentration • An alternative track of courses within a major, accounting for at least 30 percent of the major requirements. Establishment of a concentration does not require prior approval by the Board of Regents.

Corequisite • A concurrent requirement; usually a course or some other condition that must be taken at the same time as another course.

Credit • (1) The recognition awarded for the successful completion of course work. Credits are based on the number of times a course meets in one week during a regular semester.

(2) The quantitative measure of recognition given to a course, stated in semester hours.

Cross-Listed • The same course offered under the rubrics of two or more departments.

Cumulative Average • A student's grade point average based on the total number of quality points earned and the total number of semester hours attempted.

Curriculum • A description of the required and elective courses for a degree program.

Degree • The title of the award conferred on students by a college, university, or professional school upon completion of a unified program of study (i.e., Bachelor of Arts—BA; Bachelor of Science—BS; Master of Science—MS; Master of Fine Arts—MFA; Doctor of Philosophy—PhD, etc.).

Degree Designation • A degree designation for each authorized program at a public institution of higher education in Louisiana is listed in the *Board of Regents' Inventory*. Some programs require the name of the subject area as part of the degree designation (i.e., Bachelor of Architecture—BArch; Master of Social Work—MSW; Juris Doctor—JD, etc.).

Degree Program • A grouping of campus-approved courses and requirements (i.e., minimum gpa, comprehensive examinations, English and mathematics proficiency, etc.) that,

when satisfactorily completed, will entitle the student to a degree from a public institution of higher education.

Degree Subject Area • The primary discipline/field that constitutes the focus of a degree program. For example, a Bachelor of Arts in *history*. In some cases, the degree subject area is part of the degree title, as in Bachelor of Architecture, Master of Landscape Architecture.

Degree Title • The complete label of a degree program consisting of the degree designation and the degree subject area (i.e., Bachelor of Arts in history; Bachelor of Science in chemistry). After satisfactorily completing a degree program, a student will be entitled to a degree in the appropriate subject area from a public institution of higher education.

Departments • The academic units of the University within colleges or schools; administered by heads or chairs.

Elective • Course chosen by the student, as opposed to required course. The term *elective*, without a qualifier, will be understood to be a free elective, chosen by the student at his or her option from all the courses offered by the University for degree credit, with due regard for prerequisites.

Equivalent • When used in a course prerequisite (e.g., *Prereq: SOCL 2001 or equivalent*), this term means either credit in a comparable course or adequate preparation by other experience. Determination of equivalency is left to the discretion of individual departments.

Good Standing • Students are in good standing if they are eligible to continue or to re-enroll at the University, even if on scholastic probation or on scholastic warning status.

Grade Point Average (gpa) • A measure of scholastic performance; the ratio of quality points earned to semester hours attempted.

Major • That part of a degree program consisting of a specified group of courses in a particular discipline or field. The name of the major is usually consistent with the degree subject area. A major usually consists of 25 percent or more of the total hours required in an undergraduate curriculum. Establishment of a major requires prior approval by the Board of Regents.

Matriculation • The state of being registered for credit and working toward a specific degree.

Minor • That part of a degree program consisting of a specified group of courses in a particular discipline or field. The minor usually consists of 15 percent or more of the total hours required in an undergraduate curriculum. Establishment of a minor does not require prior approval by the Board of Regents.

Nonmatriculated • The state of being registered for credit but not working toward a specific degree. Both graduate and undergraduate students may register as *nonmatriculated*.

PAWS • Personal Access Web Services (PAWS) is a dynamic electronic kiosk which delivers a suite of applications to the students, faculty, and staff of LSU based on their relationship to the University.

Pre-professional Program • A non-degree program of study in preparation for entry into a

professional degree program at another institution or another division of the University; normally takes from one to three years to complete.

Prerequisite • The preliminary requirement, usually credit in another course, that must be met before a course can be taken.

Proficiency Examination • A test equivalent to a final examination in a college-level course in which a student not formally enrolled may demonstrate competence and earn academic credit.

Quality Point • Numerical value assigned to each letter grade from "A" to "F," when given as the final grade in a course; provides a basis for quantitative determination of a grade-point average.

Quality-point values at LSU are as follows: "A" = 4, "B" = 3, "C" = 2, and "D" = 1.

Registration • The process by which a duly admitted student, upon payment of required fees, is enrolled in classes.

ROTC • The Reserve Officers Training Corps program.

Semester Hour • The unit by which course work is measured. The number of semester hours assigned to a course is usually determined by the number of hours the class meets per week.

Senior College • A college or school that establishes requirements for an undergraduate degree.

Student Schedule • The courses in which a student is enrolled.

Transfer Student • A student who terminates enrollment in one college or university and subsequently enrolls in this University.

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RONALD W. NIEDRICH • Kearny-Jolly College of Business Administration Endowed Professor; Rick & Holly Wolfert Endowed Professor

DIMITRIS E. NIKITOPOULOS • Alexis & Marguerite Voorhies Endowed Professor; Richard J. and Katherine J. Juneau Distinguished Professor

JEFFREY A. NUNN • Ernest & Alice Neal Professor in Geology & Geophysics

JAMES H. OARD • American Cyanamid Professor for Excellence in Plant Biotechnology and Molecular Biology

CAROL E. O'NEIL • Ann Armstrong Peltier Professor of Dietetics

ANNE C. OSBORNE • Tom Jarreau Hardin Professor

TIMOTHY F. PAGE • Betty J. Stewart Endowed Professor of Social Work Practice with Children

SU-SENG PANG • Jack Holmes Endowed Professor of Mechanical Engineering

JOHN H. PARDUE • Elizabeth Howell Stewart Endowed Professor

WAYNE PARENT • Russell B. Long Professor of Political Science

BETH PASKOFF • Bert R. and Judith I. Boyce Professor

SUZANNE D. PAWLOWSKI • Frederick E. "Rick" and Holly A. Wolfert Professor of Business

RALPH W. PIKE, JR. • Paul M. Horton Professor of Chemical Engineering; William G. Reymond Professor

ERWIN D. POLIAKOFF • Roy Paul Daniels Professor in the College of Basic Sciences

LANCE PORTER • Doris Westmoreland Darden Professor

ALLAN G. PULSIPHER • Marathon Oil Company Professor in Energy Policy

RANDLE RAGGIO • Dr. George W. Fair Endowed Professor

FREDERICK A. RAINEY • Gregory Cannaday Burns Professor

YITSHAK RAM • Wooley Professorship in Engineering Mechanics

ARAVAMUDHAN RAMAN • Chevron Professor of Engineering

JAGANNATHAN RAMANUJAM • John E. & Beatrice L. Ritter Distinguished Professor

DANDINA N. RAO • Emmett C. Wells, Jr., Distinguished Professor

A. RAVI P. RAU • Roy Paul Daniels Professor in the College of Basic Sciences

THOMAS RAY • Pulte Homes Distinguished Professor

T. EUGENE REAGAN • Austin C. Thompson Professor of Entomology

T. GILMOUR REEVE • Helen "Bessie" Silverberg Pliner Professor in Kinesiology

KENNETH J. REICHELDT • Ernst & Young Alumni Distinguished Professorship

JAMES V. REMSEN, JR. • John Stauffer McIlhenny Distinguished Professor of Natural Science

JOSEPH V. RICAPITO • Joseph S. Yenni Memorial Professor of Italian Studies

HETTIE RICHARDSON • William W. and C. M. Rucks Professor of Management

JAMES A. RICHARDSON • Harris J. and Marie P. Chustz College of Business Endowed Professor; Russell Lay Professor

LEONARD RICHARDSON • Herbert Huey McElveen Professor of Mathematics

MALCOLM RICHARDSON II • Dr. J. F. Taylor Professor of English

FRANK C. ROHWER • George William Barineau, Jr., Professor

L. LESLIE ROSSO • Buquet & LeBlanc Inc., Distinguished Professor

KELLY A. RUSCH • Formosa Plastics Corporation Endowed Professor; Donald W. Clayton University Professor

PAUL S. RUSSO • Roy Paul Daniels Memorial Professor in Chemistry

DOUGLAS A. RUTHERFORD • Bryant Bateman Professor

MICHAEL E. SALASSI • J. Nelson Fairbanks Endowed Professor

G. ELLIS SANDOZ, JR. • Hermann Moyse, Jr. Professor in the Eric Voegelin Institute

GARY C. SANGER • Charles Clifford Cameron Endowed Distinguished Professor of Finance, Robert Theriot Professor

SUDIPTA SARANGI • Gulf Coast Coca Cola Bottling Co., Inc. Distinguished Professor

BHABA R. SARKER • Elton G. Yates Distinguished Professor of Engineering

KERRY S. SAULEY • Marjory B. Ourso Center for Excellence in Teaching Professor

KENNETH J. SCHAFER • Ball Family Professor

ANDREW SCHWARZ • Milton J. Womack Professorship for Developing Scholars

STEPHEN O. SEARS • Longwell-Leonard Family Distinguished Professor

H. MAGDI SELIM • A. George and Mildred G. Caldwell Professor of Plant, Environmental & Soil Sciences

FREDERICK H. SHELDON • George H. Lowery, Jr., Distinguished Professor of Natural Science

GLENN B. SINCLAIR • Groves Hodge Family Professorship

JOACHIM SINGELMANN • David J. Kriskovich Distinguished Professor

V. CARLOS SLAWSON, JR. • C. J. Brown Distinguished Professor in Real Estate; Latter & Blum Distinguished Professor

JOHN R. SMITH • Campanile Charities Professor

DAVID SMYTH • The Galante Professorship in The College of Music and Dramatic Arts

MELINDA A. SOLMON • Roy Paul Daniels Professor in Kinesiology

WEI-LING SONG • Bank One/Chuck McCoy Endowed Distinguished Professor

STEVEN A. SOPER • Dr. William L. & Patricia H. Senn, Jr., Endowed Professor

HERNDON SPILLMAN • School of Music Carolyn Botkin Mattax Endowed Professor

JAMES J. SPIVEY • James McLaurin Shivers Professor; Gordon A. & Mary Cain Professor

CLIFFORD P. STEPHENS • Bank One/Chuck McCoy Endowed Distinguished Professor

JACQUELINE M. STEPHENS • George C. Kent Professor in Life Sciences; Ron and Mary Neal Distinguished Professor in Biological Sciences

THOMAS L. STERLING • Seola Arnaud and Richard Vernon Edwards, Jr. Professor

GREGORY W. STONE • James P. Morgan Distinguished Professor in Coastal Studies

MICHAEL S. STOUT • L. D. Newsom Distinguished Professorship

GLENN E. SUMNERS • U. J. LeGrange Endowed Professor

ROBERT TAGUE • James J. Parsons Professor

LOUIS J. THIBODEAUX • Jesse Coates
Professor of Chemical Engineering

LAKSHMAN VELUPILLAI • H. Rouse
Caffey Endowed Professor of Biological
& Agricultural Engineering

GRAÇA VICENTE • Charles H. Barré
Distinguished Professor of Chemistry

GEORGE Z. VOYIADJIS • Bingham
Cushman Stewart Distinguished Endowed
Professor

LESLIE A. WADE • Billy J. Harbin
Professor in the Department of Theatre

WARREN N. WAGGENSPACK, JR. • E.S.
“Ned” Adler Memorial Endowed
Professor

NAN D. WALKER • Texaco Distinguished
Professor in Oceanography

JAMES H. WANDERSEE • W. H. “Bill”
LeBlanc Alumni Association
Departmental Professor in the College of
Education

FAHUI WANG • Fred B. Kniffen
Professorship in Geography &
Anthropology

EDWARD F. WATSON, III • E. J. Ourso
Professor of Business Analysis; Marjory
B. Ourso Professor of Academic
Excellence and Associate Dean

MICHAEL WELSCH • Robert H. & Patricia
A. Hines Professor in Kinesiology

PETER DANIEL WEATHERS, III • Texas
Tigers Tourney/GRTR Houston Alumni
Association Endowed Professor

DAVID M. WETZEL • F. J. Haydel,
Jr./Kaiser Aluminum Professor; Leon M.
Pliner Distinguished Professorship in
Chemical Engineering

CHRISTOPHER WHITE • Chevron
Professor of Engineering

RICHARD D. WHITE, JR. • Marjory B.
Ourso Center for Excellence in Teaching
Professor

CAROL M. WICKES • Frank W. and
Patricia Harrison Family Professor in
Geology

JAMES WILCOX • Donald and Velvia
Crumbley Endowed Professor of English

SONJA WILEY PATTON • Donald Lindley
& Ruby Wight Phillips Developing
Scholar Professor

ELIZABETH WILLIS • Elena and Albert
LeBlanc Professor in the College of
Education

PAUL W. WILSON • Ola Cook Holmes
Endowed Professor

PETER WOLENSKI • Russell B. Long
Professor

MARY J. WORNAT • Robert Hughes
Harvey Endowed Professor

JIANAN WU • William A. Copeland
Professorship in Business

QINGLIN WU • Roy O. Martin Professor of
Composites and Engineered Wood
Products

CAROL YOUNG • Elena and Albert
LeBlanc Professor in the University
Laboratory School

KEMIN ZHOU • Mark and Carolyn Guidry
Professor

JUN ZOU • Ruth Z. McCoy Professor of
Interior Design

GRADUATE FACULTY

The graduate faculty is composed of members of the teaching, research, and extension faculties who have been so designated by the Chancellor, upon the recommendation of the graduate council acting upon appropriate nominations. Faculty members can qualify, depending on their qualifications, for the following types of graduate faculty membership: full, associate, research affiliate, or professional affiliate.

Full Member

Privileges and Responsibilities

- Determine policies of the Graduate School.
- Engage in all graduate education activities.
- Nominate faculty for membership on the graduate faculty.
- Chair a thesis or dissertation committee.

Terms and Criteria

- Newly appointed associate professors with tenure or tenure track in units offering work for graduate credit are normally appointed to a seven-year full member term.
- Newly appointed full professors with tenure or tenure track in units offering work for graduate credit are normally appointed to a seven-year full member term.
- Full professors extended full membership following a seven-year term will normally be extended permanent full member status.
- Full members of the graduate faculty must possess the highest degree appropriate to the field or unquestionable evidence of comparable achievement in the field.
- To maintain graduate faculty status full members must demonstrate a current and sustained record of scholarly or creative activities indicated by publications in recognized journals in the field, books, and exhibitions of performances.

Associate Member

Privileges and Responsibilities

- Determine policies of the Graduate School.
- Engage in all graduate education activities.
- Chair a thesis or dissertation committee.

Terms and Criteria

- Newly appointed tenure-track assistant professors in units offering work for graduate credit are normally appointed to a non-renewable, six-year associate member term.
- Faculty members with at least seven years in rank as associate professor or full professor who do not maintain full membership may be eligible for a renewable, three-year associate member term in units offering work for graduate credit.
- Faculty members who hold the rank of adjunct assistant professor, adjunct associate professor, or adjunct full professor in a unit offering work for graduate credit are only eligible for a renewable, three-year associate member term.
- Associate members of the graduate faculty must possess the highest degree appropriate to the field or unquestionable evidence of comparable achievement in the field.
- To maintain graduate faculty status associate members must demonstrate a current and sustained record of scholarly or creative activities indicated by publications in recognized journals in the field, books, and exhibitions or performances.

Research Affiliate Member

Privileges and Responsibilities

- May serve as a member of thesis and dissertation committees but may not chair except by permission of the dean of the Graduate School.
- May engage in instructional activities at the masters and doctoral level.

Terms and Criteria

- Individuals nominated for research affiliate may be appointed to a renewable, three-year term.
- Research affiliate membership is available to individuals whose appointments reside in units not offering work for graduate credit or whose appointments are not tenure track.
- Research affiliate members must possess the highest degree appropriate to the field or unquestionable evidence of comparable achievement in the field.
- To maintain graduate faculty status research affiliate members must demonstrate a current and sustained record of scholarly or creative activities indicated by publications in recognized journals in the field, books, and exhibitions or performances.

Professional Affiliate Member

Privileges and Responsibilities

- May engage in instructional activities at the masters level.
- May not engage in instructional activities at the doctoral level except by permission of the dean of the Graduate School.
- May serve as a member of thesis committees but may not normally chair except by permission of the dean of the Graduate School.

Terms and Criteria

- Individuals nominated for professional affiliate by units offering work for graduate credit may be appointed to a renewable, three-year term based on evidence of expertise or knowledge that is directly relevant and applicable to the professional program in which the individuals will be teaching.
- Expertise is defined in terms of recent activities recognized by the focal area as indicative of excellence. Appropriate indicators may include but are not limited to: terminal degrees in focal or relevant areas; professional certification; licensure; diplomas, or record of professional practice; and demonstrated professional excellence through performances, exhibitions, presentations, professional publications, or national awards.
- Normally, a person who is eligible for full or associate graduate faculty status is ineligible for professional affiliate status.
- Individuals whose professional activities are a function of their LSU employment are normally ineligible for professional affiliate status.

For a complete and up-to-date list of graduate faculty members, please see the Graduate School Web site at www.lsu.edu/gradschoolfaculty.

FACULTY

▶▶▶ A

- DENNIS G. ABBEY, Associate Professor of Landscape Architecture. MLA, Harvard University.
- FAHREED ABOULA-ELA, Assistant Professor of Biological Sciences. PhD, University of California, Berkeley.
- JOSEPH E. ABRAHAM, Instructor in English. PhD, University of Texas, Austin.
- MURAD ABU-FARSAKH, Associate Professor/ Research Professor of Civil and Environmental Engineering. PhD, LSU.
- PATRICK A. ACAMPORA, Associate Professor of Theatre. MFA, Purdue University.
- PRAMOD ACHAR, Assistant Professor of Mathematics. PhD, Massachusetts Institute of Technology.
- SUMANTA ACHARYA, L. R. Daniel, Jr., Professor; Fritz and Frances M. Blumer Professor; Professor of Mechanical Engineering. PhD, University of Minnesota.
- ERIC C. ACHBERGER, Associate Professor of Biological Sciences. PhD, Pennsylvania State University.
- MARK J. ACIERNO, Associate Professor of Companion Animal Medicine (Department of Veterinary Clinical Sciences); Veterinary Internist. MBA, Pace University; DVM, Mississippi State University; Diplomate, American College of Veterinary Internal Medicine.
- LINDA B. ADAMS, Adjunct Assistant Professor of Veterinary Microbiology (Department of Pathobiological Sciences); Microbiologist, Gillis W. Long Hansen's Disease Center. PhD, LSU.
- PHILIP W. ADAMS, Professor of Physics and Astronomy. PhD, Rutgers University.
- WILLIAM A. ADKINS, Professor of Mathematics. PhD, University of Oregon.
- DONALD D. ADRIAN, Rubicon Professor of Engineering; Effie C. and Donald M. Hardy Professor of Engineering; Professor of Civil and Environmental Engineering. PhD, Stanford University.
- CLAIRE D. ADVOKAT, Professor of Psychology. PhD, Rutgers University.
- HELENE AFEMAN, Instructor in Kinesiology. MS, LSU.
- ALAN D. AFTON, Adjunct Associate Professor of Renewable Natural Resources; Assistant Leader, Louisiana Cooperative Fish and Wildlife Research Unit (USGS). PhD, University of North Dakota.
- FEREYDOUN AGHAZADEH, Georgia Gulf Distinguished Professor; Professor of Industrial Engineering (Department of Construction Management & Industrial Engineering). PhD, Texas Tech University.
- ELISHA AGUIRRE, Instructor in Education (University Laboratory School). MEd, LSU.
- MARY C. AIME, Assistant Professor, Department of Plant Pathology & Crop Physiology. PhD, Virginia Tech.
- PRATUL K. AJMERA, McDermott Corporation Endowed Professor; Newton B. Thomas Professor; Professor of Electrical and Computer Engineering. PhD, North Carolina State University.
- WALID ALAYWAN, Adjunct Professor of Civil and Environmental Engineering; Research Associate at Louisiana Transportation Research Center, Baton Rouge, LA. MS, Louisiana Tech University.
- F. KAREEM AL BAGDADI, Associate Professor of Histology and Ultrastructure (Department of Comparative Biomedical Sciences). PhD, University of Illinois.
- GREGORY V. ALBRECHT, Instructor in Economics. BS, LSU.
- NOLDE ALEXIUS, Instructor in English. MFA, George Mason University.
- GABRIELLE ALLEN, Associate Professor of Computer Science; Adjunct Associate Professor of Physics and Astronomy. PhD, Cardiff University (Wales).
- LINDA R. ALLEN, Instructor in Chemistry. PhD, University of Arkansas.
- PRISCILLA ALLEN, Associate Professor of Social Work. PhD, Fordham University.
- JEREMY ALLISON, Assistant Professor of Entomology, PhD, University of California - Riverside.
- YANIV ALMOG, Associate Professor of Mathematics. DSc, Technion-Israel Institute of Technology (Israel).
- KHALID ALSHIBLI, Associate Professor of Civil and Environmental Engineering. PhD, University of Colorado.
- KEITH ALTAZAN, Instructor in Education (University Laboratory School). MA, Southeastern University.
- DAVID M. ANDERSON, Instructor in Accounting. MBA, LSU.
- JOHN ANDERSON, Associate Librarian. MLIS, LSU.
- LAURIE C. ANDERSON, Dr. Henry V. Howe Distinguished Professor; Associate Professor of Geology and Geophysics. PhD, University of Wisconsin, Madison.
- PAUL NORMAN ANDERSON, Instructor in Classics (Department of Foreign Languages & Literatures). PhD, LSU.
- BRIAN ANDREWS, Instructor in Finance. MBA, Tulane University.
- FRANK M. ANDREWS, Professor, Equine Medicine; Director, Equine Health Studies Program; Chief, Equine Medicine and Surgery (Veterinary Teaching Hospital & Clinics); Veterinary Internist. DVM, MS, Washington State University; Diplomate, American College of Veterinary Internal Medicine (Large Animal).
- SHARON ANDREWS, Instructor in English. MDiv., Perkins School of Theology, Southern Methodist University.
- FRANK ANSELMO, Associate Professor of French Studies. PhD, Tulane University.
- YURI ANTIPOV, Professor of Mathematics. DSc, Moscow State University (Russia).

- MICHAEL APPLIN, Instructor in Communication Studies. MA, University of New Orleans.
- JOHN ALBARADO, Extension Associate of Human Ecology. BS, University of Louisiana at Lafayette.
- PAULA ARAI, Associate Professor of Religious Studies (Department of Philosophy and Religious Studies). PhD, Harvard University.
- JORGE L. ARAVENA, Oskar R. Menton Endowed Professor; Professor of Electrical and Computer Engineering; Interim Chair, Department of Electrical & Computer Engineering. PhD, University of Michigan.
- KEENA ARBUTHNOT, Assistant Professor of Education (Department of Educational Theory, Policy and Practice). PhD, University of Illinois at Urbana-Champaign.
- VICTORIA L. ARCHANGEL, Instructor in Business Administration. MS, University of Louisiana-Monroe.
- GEORGE ARGYROPOULOS, Adjunct Professor of Human Ecology; Assistant Professor, Pennington Biomedical Research Center, Baton Rouge, LA. PhD, University of Essex, Colchester, England, UK.
- JEREMIAH ARIAZ, Assistant Professor of Art. MFA, University of Buffalo.
- WILLIAM ARMSTRONG, Associate Librarian. MLIS, LSU.
- KIMBERLY P. ARP, Professor of Art. MFA Indiana University.
- KAYANUSH J. ARYANA, Associate Professor of Animal Science; Associate Professor of Food Science. PhD, Mississippi State University.
- ALTHEA C. ASHE, Instructor in Latin (Department of Foreign Languages & Literatures). PhD, University of Georgia.
- NINA ASHER, Associate Professor of Education (Department of Educational Theory, Policy, and Practice). PhD, Teachers College, Columbia University.
- MELISSA AUCOIN, Teaching Associate (University Laboratory School). BS, LSU.
- BRYAN AUDIFFRED, Instructor in Electrical and Computer Engineering. MS, Cornell University.
- CHRISTOPHER C. AUSTIN, Associate Professor of Biological Sciences; Assistant Curator, Museum of Natural Sciences. PhD, University of Texas, Austin.
- KIM AZENARA, Instructor in Spanish (Department of Foreign Languages & Literatures). MA, LSU.
- ▶▶▶ **B**
- STEVEN BABCOCK, Instructor in Education (University Laboratory School). MEd, LSU.
- JACQUELINE BACH, Assistant Professor of Education (Department of Educational Theory, Policy and Practice). PhD, Oklahoma State University.
- HATEM BACHAR, Instructor in Arabic (Department of Foreign Languages and Literatures). MA, University of Kansas.
- H. PARROTT BACOT, Professor of Art History (School of Art). MA, State University of New York, Oneonta.
- LORI BADE, Nell S. And Boyd H. McMullan Distinguished Professor of Music(Voice); Interim Director of Graduate Studies, College of Music and Dramatic Arts. DMA, University of Texas, Austin.
- ANTONIO BAENA, Instructor in Spanish (Department of Foreign Languages and Literatures). MA, University of Southern Mississippi.
- DIOLA BAGAYOKO, Adjunct Professor of Physics and Astronomy; Professor, Southern University, Baton Rouge, Louisiana. PhD, LSU.
- LYNNE BAGGETT, Associate Professor of Art. B/TEC HND, Derbyshire College of Higher Education (United Kingdom).
- NIRANJAN BAISAKH, Assistant Professor-Research, School of Plant, Environmental & Soil Sciences. PhD, Utal University, India.
- BIRGITTA L. BAKER, Assistant Professor of Kinesiology. PhD, The Pennsylvania State University.
- DAVID G. BAKER, Professor of Laboratory Animal Medicine (Department of Pathobiological Sciences); Director, Laboratory Animal Medicine. DVM, PhD, University of California, Davis; Diplomate, American College of Laboratory Animal Medicine.
- SCOTT BALDRIDGE, Associate Professor of Mathematics. PhD, Michigan State University.
- JACK BALDWIN, Professor of Entomology. PhD, Oklahoma State University.
- DONALD M. BALTZ, Chair, Department of Oceanography & Coastal Sciences; Professor of Oceanography and Coastal Sciences. PhD, University of California, Davis.
- STEPHEN W. BANKS, Associate Professor of Biological Sciences, LSU-S, Shreveport, Louisiana. PhD, University of Nottingham (United Kingdom).
- DAVID BANKSTON, Professor of Food Science. PhD, University of Notre Dame, Indiana.
- WILLIAM B. BANKSTON, Professor of Sociology; Chair, Department of Sociology. PhD, University of Tennessee.
- HUIMING BAO, Associate Professor of Geology and Geophysics. PhD, Princeton University.
- MICHELE BARBATO, Assistant Professor of Civil and Environmental Engineering. PhD, University of California, San Diego.
- GARY BARBEE, Assistant Professor of Plant, Environmental & Soil Sciences. PhD, Texas A&M University.
- THOM BARBER, Adjunct Instructor in Philosophy (Department of Philosophy & Religious Studies); Instructor, Baton Rouge Magnet High School. MA, LSU.
- ROBERTO N. BARBOSA, Assistant Professor of Biological and Agricultural Engineering. PhD, University of Tennessee.
- SIBEL BARGU-ATES, Assistant Professor of Oceanography and Coastal Sciences. PhD, University of California at Santa Cruz.
- BRITTAN BARKER, Assistant Professor of Communication Sciences & Disorders. PhD, University of Iowa.
- STEVEN A. BARKER, Evertt D. Besch Professorship in Veterinary Medicine; Professor of Comparative Biomedical Sciences. PhD, University of Alabama.
- JAMES BARNES, Assistant Professor of Agricultural Economics and Agribusiness; Director, Delta Rural Development Center, Oak Grove, Louisiana. PhD, University of Missouri.
- WYLIE C. BARROW, Adjunct Assistant Professor of Renewable Natural Resources; Wildlife Biologist, National Wetlands Center, Lafayette, Louisiana. PhD, LSU.
- CAROL BARRY, Associate Professor of Library and Information Science. PhD, Syracuse University.
- PHILIP J. BART, Associate Professor of Geology and Geophysics. PhD, Rice University.
- JUAN BARTHELOMY, Assistant Professor of Social Work. PhD, University of Tennessee.
- SUE G. BARTLETT, Associate Professor of Biological Sciences. PhD, Duke University.
- SARAH BARTOLOME, Assistant Professor of Music (Music Education). MM, Northwestern University.
- REID A. BATES, Professor of Human Resource Education (School of Human Resource Education & Workforce Development). PhD, LSU.
- EMILY E. BATINSKI, Associate Professor of Latin and Greek (Department of Foreign Languages & Literatures); Chair, Department of Foreign Languages & Literatures. PhD, University of Colorado.
- JOHN R. BATTISTA, Mary Lou Applewhite Professor; Professor of Biological Sciences. PhD, Wayne State University.
- JOANNA K. BATTLES, Assistant Professor. MFA, Brown University/Trinity Rep Conservatory.
- MARK A. BATZER, Boyd Professor; Dr. Mary Lou Applewhite Distinguished Professor of Biological Sciences. PhD, LSU.
- RUDY W. BAUER, Clinical Specialist; Associate Professor of Veterinary Pathology (Department of Pathobiological Sciences). DVM, PhD, University of Georgia; Diplomate, American College of Veterinary Pathologists.
- LEE BAUKNIGHT, Instructor in English. MFA, University of South Carolina.
- ALAN BAUMEISTER, Professor of Psychology. PhD, Vanderbilt University.

GERALD BAUMGARTNER, Assistant Professor of Computer Science. PhD, Purdue University.

JENNIFER BAUMGARTNER, Assistant Professor of Human Ecology. PhD, University of Illinois.

CORA BAUZA, Instructor in Spanish (Department of Foreign Languages and Literatures). MA, LSU.

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JOHN C. BEAULIEU, Adjunct Professor of Food Science; Research Plant Pathologist, USDA, New Orleans, Louisiana. PhD, University of California, Davis.

GABRIEL BEAVERS, Assistant Professor of Music (Bassoon), College of Music and Dramatic Arts. MM, Southern Methodist University.

MELISSA R. BECK, Assistant Professor of Psychology. PhD, Kent State University.

STEPHEN DAVID BECK, Professor of Music (Composition and Electro-Acoustic Music). PhD, University of California, Los Angeles.

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ARTHUR G. BEDEIAN, Boyd Professor; Ralph and Kacoo Olinde Distinguished Professor of Management; Dan J. Moller Professor in the College of Business. DBA, Mississippi State University.

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LAUREN A. BEEBE, Instructor, Veterinary Anesthesia (Department of Veterinary Clinical Sciences). DVM, LSU.

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BONNIE D. BELLEAU, Beverly Griffin Shea LSU Alumni Association Departmental Professor of Human Ecology; Professor of Human Ecology. PhD, Florida State University.

MARK BENFIELD, Associate Professor of Oceanography and Coastal Sciences. PhD, Texas A&M University.

RICHARD L. BENGTON, Edward McLaughlin Professor for Excellence in Undergraduate Instruction; Professor of Biological and Agricultural Engineering. PhD, Oklahoma State University.

JAMES G. BENNETT, Professor of English. MA, Stanford University.

STEPHEN J. BENSMAN, Associate Librarian. PhD, University of Wisconsin, Madison.

SAMUEL J. BENTLEY, SR., Adjunct Associate Professor of Oceanography and Coastal Sciences; Canada Research Chair in Seabed Processes and Seabed Imaging; Associate Professor, Memorial University of Newfoundland. PhD, Marine Sciences Institute, State University of New York, Stony Brook.

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JACOB BERMAN, Assistant Professor of English. PhD, University of California, Santa Barbara.

JEREMY B. BERNERTH, Assistant Professor of Management. PhD, Auburn University.

C. DAVID BERTOLINI, Assistant Professor of Architecture. PhD, Temple University.

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REINHARD H. BEYER, Post Doctoral Researcher, Center for Computation and Technology (affiliated with the Department of Mathematics). PhD, Hamburg University (Germany).

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ELDON BIRTHWRIGHT, Assistant Professor of English. PhD, Emory University.

LOWELL L. BLACK, Adjunct Professor of Plant Pathology and Crop Physiology; Senior Scientist, Asian Vegetable Research and Development Center, Taiwan. PhD, University of Wisconsin, Madison.

WILLIAM C. BLACK, Piccadilly Cafeterias, Inc., Business Administration Business Partnership Professor; Professor of Marketing. PhD, University of Texas, Austin.

JEFFERY BLACKMON, Associate Professor of Physics and Astronomy. PhD, University of North Carolina, Chapel Hill.

MEREDITH M. BLACKWELL, Boyd Professor; Professor of Biological Sciences. PhD, University of Texas, Austin.

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RICKY L. BLACKWOOD, Professor of English. MFA, University of California, Los Angeles.

CHRIS BLAKLEY, Instructor in Philosophy (Department of Philosophy and Religious Studies). MA, Southern Illinois University.

MICHELLE BLANCHARD, Instructor in Education (University Laboratory School). EdS, LSU.

PAMELA BLANCHARD, Assistant Professor of Education (Department of Educational Theory, Policy, and Practice). PhD, LSU.

TROY BLANCHARD, Associate Professor of Sociology. PhD, LSU.

STERLING BLANCHE, Adjunct Assistant Professor-Research of Plant, Environmental & Soil Sciences. Assistant Professor-Research, Rice Research Station. PhD, LSU.

LEONARD T. BLANKS, Instructor in Computer Science. MS, University of Wisconsin.

MICHAEL BLAZIER, Adjunct Assistant Professor of Renewable Natural Resources; Assistant Professor, Hill Farm Research Station, Homer, Louisiana. PhD, Oklahoma State University.

KELLY BLESSINGER, Associate Librarian. MLIS, University of South Carolina.

EDWARD C. BLOMEYER, Adjunct Assistant Professor of Finance; President, Carter and Associates. DBA, Indiana University.

BRENDA BLOOM, Instructor in Education (University Laboratory School). EdS, LSU.

DAVID C. BLOUIN, Professor of Experimental Statistics. PhD, LSU.

JAMES E. BOARD, Professor of Plant, Environmental & Soil Sciences. PhD, University of California, Davis.

GRAHAM D. BODIE, Assistant Professor of Communication Studies. PhD, Purdue University.

WILLIAM BOELHOWER, Robert Thomas and Rita Wetta Adams Professor; Professor of English. PhD, Marquette University.

CHARLES A. BOENEKE, Associate Professor of Animal Science. PhD, LSU.

DAVID J. BOETHEL, Professor of Entomology; Associate Vice-Chancellor; Associate Director, Louisiana Agricultural Experiment Station. PhD, Oklahoma State University.

RUDOLF P. BOHM, Adjunct Associate Professor, Department of Pathobiological Sciences. DVM, LSU.

ARJEN BOIN, Associate Professor of Public Administration. PhD, Leiden University.

DORIN BOLDOR, Assistant Professor of Biological and Agricultural Engineering. PhD, North Carolina State University.

PATRICK K. BOLLICH, Adjunct Professor of Plant, Environmental & Soil Sciences; Professor, Rice Research Station, Crowley, Louisiana. PhD, LSU.

JUDITH C. BOLTON, General Librarian. MA, Northeast Missouri State University.

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