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

This catalog was compiled, edited, and produced by the Office of the University Registrar and the Office of Communications & University Relations.

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.
Academic Calendar ................................................................. 4
The University ........................................................................ 7
Academic Programs ................................................................. 13
Student Life ............................................................................. 29
Undergraduate Admissions & Student Aid ................................. 37
Undergraduate Fees • Expenses ............................................... 61
Undergraduate Degree Requirements • Regulations ................. 65
General Education Requirements ............................................ 75
University College ................................................................. 79
College of Agriculture ............................................................ 83
College of Art and Design ....................................................... 103
College of Arts and Sciences .................................................. 111
College of Basic Sciences ....................................................... 131
E. J. Ourso College of Business .............................................. 141
School of the Coast and Environment ..................................... 149
College of Education ............................................................. 153
College of Engineering ......................................................... 161
Honors College ....................................................................... 173
Manship School of Mass Communication ................................. 177
College of Music and Dramatic Arts ......................................... 181
Graduate School • Professional Programs ................................. 187
  Admission • General Information ......................................... 187
  Graduate • Professional Degrees ......................................... 188
  Fees • Financial Aid ........................................................... 193
  General Graduate School Regulations .................................. 196
  Requirements for Advanced Degrees .................................... 199
  Professional Programs ......................................................... 203
Research • Faculty Resources ................................................ 207
International Programs .......................................................... 223
Continuing Education ......................................................... 225
Reserve Officers Training Corps ............................................ 229
LSU • Southern University Cooperative Programs .................. 231
Courses of Instruction ............................................................ 233
Alumni Relations • Development .......................................... 311
Administration ....................................................................... 333
Faculty ..................................................................................... 335
Glossary ................................................................................. 337
Index ....................................................................................... 339
Where to Write ....................................................................... Inside front cover
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 winter session 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
### 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 begins
- 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

### 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 begins
- 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.
- 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.
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); 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
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 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 Experiment Station, 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 selection 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 observation 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 hurricane location, 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 interactive environment that helps business owners make best course of action decisions.

- The LSU FACES Laboratory is a public service, research, and educational facility designed 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 studies 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 secondary 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 identified internship 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 healthy 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 Coastal 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 student groups on career opportunities and career decision making in the 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 access to 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. It also provides services on state and regional 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 an annual 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 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 Public 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 oral history and the oral histories history 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 intervention 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 PBIS efforts.

- 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 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 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 conducts 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, and 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 enhance learning 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

- 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 theriogenology 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 Swan 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 706,000. 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 works with the Council of Academic Deans and Directors, which serves as both the chief academic officer and as the chief operating officer of 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
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 specifically through intellectual property development and commercialization efforts; developing 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.

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 conferences in NCAA Division I 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 to improve student retention and graduation commensurate with the goals of the University.

OFFICE OF UNDERGRADUATE ADMISSIONS & STUDENT AID

OFFICE • 1146 Pleasant Hall
TELEPHONE • 225-578-8103
FAX • 225-578-4424
WEB SITE • www.lsu.edu/undergrad

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 • 225-578-5891
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.

The University 11
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 semesters.

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); 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 history in 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 Lynnwood 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 gp, 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.

The complete catalog of LSU is available online at lsu.edu/catalog.
**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

<table>
<thead>
<tr>
<th>DEPARTMENT</th>
<th>CURRICULUM/MAJOR (CIP CODE)</th>
<th>CURRICULUM CODE</th>
<th>DEGREE</th>
<th># HRS.</th>
<th>CONCENTRATION</th>
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<td>Agricultural Economics &amp; Agribusiness</td>
<td>Agricultural Business (010101)</td>
<td>AGBU</td>
<td>BS</td>
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<td>Agribusiness Finance</td>
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<td>Agribusiness Management</td>
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<td>Rural Development</td>
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<td>Pre-veterinary Medicine - Poultry Science</td>
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<td>Biological &amp; Agricultural Engineering</td>
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<td>Child &amp; Family Studies (190101)</td>
<td>HECFS</td>
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<td>124</td>
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### E. J. OURSO COLLEGE OF BUSINESS DEGREE PROGRAMS - UNDERGRADUATE

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### E. J. Ourso College of Business Degree Programs - Undergraduate

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*Note: Italicized curriculum indicates that the program is currently suspended.*
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<td>DANCE</td>
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<td>FISH</td>
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<td>TMA</td>
<td>Textiles, Merchandising, and Apparel</td>
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<td>VED</td>
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<td>VIS</td>
<td>Visual Communication for Students in the College of Art &amp; Design</td>
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<td>WECOL</td>
<td>Wildlife Ecology</td>
<td>School of Renewable Natural Resources</td>
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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.

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. Resources available to LSU students include:

- A nationally recognized Web site with

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 • B4 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 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. 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 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 is dedicated 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  
WEB SITE • 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...
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**

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 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 the 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**

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 stretch 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 of 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**

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, 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.

MULTICULTURAL AFFAIRS
OFFICE • 326 A LSU Student Union
TELEPHONE • 225-578-4339
FAX • 225-578-3282
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 reflect 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 who 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 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 for police, fire, emergency medical services (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 includes 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 responsibilities include 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 dining staff also provides informative programs related to safety, wellness, campus community, 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 the fall of 2010. The Mass Communication Residential College is specifically designed to offer an educational and social community for the next generation of journalists, 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 Mass Communication 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 path 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. East 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, waitlist 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).
4. 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 will be reduced by the semester rental fee. 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 resides 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 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; ATM's; 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 events 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 individuals 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, these courses 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, 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 sport 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.lsusports.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 Rekorton 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 Mideast 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 Ph.D. 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 70808 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.
Undergraduate Admissions & Student Aid

MARY G. PARKER
Executive Director
CHRISTINE DAY
Associate Director
MANDY HOFFMAN
Associate Director
GUADALUPE LAMADRID
Associate Director
AMY MARIX
Associate Director
AMY PREJEAN
Associate Director

Office of Undergraduate Admissions & Student Aid
1146 Pleasant Hall
225-578-1175 Admissions
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 scholarships 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
Applications will be reviewed against the following basic criteria:

<table>
<thead>
<tr>
<th>Units*</th>
<th>GPA*</th>
<th>SAT or ACT †</th>
<th>Class Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>3.00</td>
<td>1030 or 22</td>
<td>-</td>
</tr>
<tr>
<td>18</td>
<td>3.00</td>
<td>-</td>
<td>Top 15%</td>
</tr>
<tr>
<td>17</td>
<td>3.00</td>
<td>1090 or 24</td>
<td>-</td>
</tr>
<tr>
<td>17</td>
<td>3.20</td>
<td>1060 or 23</td>
<td>-</td>
</tr>
<tr>
<td>17</td>
<td>3.50</td>
<td>1030 or 22</td>
<td>-</td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>No. of Units</th>
<th>High School Course(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>English Composition &amp; Literature English I, II, III, and IV</td>
</tr>
<tr>
<td>3</td>
<td>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</td>
</tr>
<tr>
<td>3</td>
<td>Natural Sciences One unit of biology One unit of chemistry One unit of physics</td>
</tr>
<tr>
<td>3</td>
<td>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</td>
</tr>
<tr>
<td>2</td>
<td>Foreign Language Two units in a single language</td>
</tr>
<tr>
<td>1</td>
<td>Math/Science Elective Additional unit of math or natural science, such as Geometry, Calculus, Pre-Calculus, Algebra III, Probability &amp; 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.</td>
</tr>
<tr>
<td>0.5</td>
<td>Computer Studies One half unit in Computer Studies or substitute one half unit from any of the above.</td>
</tr>
<tr>
<td>1.5</td>
<td>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.</td>
</tr>
</tbody>
</table>
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 be 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 LSU 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. Tour 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 semester and prior to 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 admission 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 are calculated 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 grade point average. Grades of “D,” “F,” or “U” will not 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 evaluate transcripts sent by the deadline for application and final records are 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,
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, 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 semester 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 (in-person 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 the 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 intercession.

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 in a term 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 pay a special fee of $25 per course.

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 one to 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. Departmental 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.

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

<table>
<thead>
<tr>
<th>CLEP Subject Examination</th>
<th>Minimum Score</th>
<th>LSU Equivalent</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
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<td>POLI 2051</td>
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<tr>
<td>American History I</td>
<td>50</td>
<td>HIST 2055</td>
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<td>American History II</td>
<td>50</td>
<td>HIST 2057</td>
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<tr>
<td>Calculus with Elementary Functions</td>
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<td>MATH 1550</td>
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<tr>
<td>College Algebra</td>
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<td>College Composition</td>
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<td>ENGL 1000/1001</td>
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<td>FREN 1001, 1002, 2101, 2102</td>
<td>14</td>
</tr>
<tr>
<td>College German</td>
<td>40</td>
<td>GERM 1101</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>48</td>
<td>GERM 1101, 1102</td>
<td>8</td>
</tr>
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<td>College Spanish</td>
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<td>61</td>
<td>SPAN 1101, 1102, 2101, and 2102</td>
<td>14</td>
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<tr>
<td>Human Growth and Development</td>
<td>52</td>
<td>PSYC 2076</td>
<td>3</td>
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<tr>
<td>Introduction to Educational Psychology</td>
<td>52</td>
<td>PSYC 2060</td>
<td>3</td>
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<tr>
<td>Introductory Psychology</td>
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<td>PSYC 2000</td>
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<td>Introductory Sociology</td>
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<td>SOCL 2001</td>
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<tr>
<td>Trigonometry</td>
<td>50</td>
<td>MATH 1022</td>
<td>3</td>
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</tbody>
</table>
Undergraduate Admission & Student Aid

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***

<table>
<thead>
<tr>
<th>Subject</th>
<th>Score</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>Biology 2003 – syllabus</td>
<td>4</td>
<td>BIOL 1201 (3), 1202 (3)</td>
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<td></td>
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<td>BIOL 1201 (3), 1202 (3), 1209 (1)</td>
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<td>Chemistry 2003 – syllabus</td>
<td>4</td>
<td>CHEM 1201 (3)</td>
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<td>CHEM 1201 (3), 1202 (3), 1212 (2)</td>
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<td>Computer Science</td>
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<td>5</td>
<td>CSC 1253 (3) or 1350 (3)</td>
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<td>Economics</td>
<td>5</td>
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<tr>
<td>English Literature (A1)</td>
<td>4</td>
<td>ENGL 2025 (3)</td>
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<td>ENGL 2025 (3), 2027 (3)</td>
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<td>History – Modern Europe</td>
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<td>HIST 2023 (3)</td>
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<tr>
<td>History – 2003 syllabus</td>
<td>4</td>
<td>HIST 1007 (3)</td>
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<tr>
<td>History – all other</td>
<td>4</td>
<td>HIST 2*** (3)</td>
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<td>Language A1: English</td>
<td>4</td>
<td>ENGL 2025 (3)</td>
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<td>Music – 2002 syllabus</td>
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<td>MUS 1751 (3), 1799 (3)</td>
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<td>Physics – 2003 syllabus</td>
<td>4</td>
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<td></td>
<td>5</td>
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<tr>
<td>Psychology</td>
<td>4</td>
<td>PSYC 2000 (3)</td>
</tr>
<tr>
<td>Visual Arts – 2003 syllabus</td>
<td>4</td>
<td>ART 1001 (3)</td>
</tr>
<tr>
<td>Other HL’s</td>
<td>4</td>
<td>3 credit hours by title (1*** )</td>
</tr>
</tbody>
</table>

*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 33 as well as a 3.50 computed gpa. 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 institution are eligible for this award.

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 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 20314 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 for competition 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 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 lesser 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. Awards 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...
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 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
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 their individual colleges for up-to-date information concerning amounts and requirements. Those scholarships and awards marked with an 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 SF/IR/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. Barkham 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.

J. G. Bailey Endowed Scholarship Student if Col. of Agr.; FR minimum 2.50 GPA to retain for second semester; SR, Jr. or Sr. 2.50 minimum GPA to obtain. Preference given to African American applicants.

Lee Irberck 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 a college GPA eligible.

Capital Bank & Trust Agricultural Scholarship Full-time upperclassman enrolled in the Col. of Agr.; ag. major, 3.0 LSU overall GPA, 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 Agr. pursuing a degree in ag. econ.; agricultural, 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.

Charles W. 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 & Jeanne L. Fourt 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 transferring students with a college GPA eligible.

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 or 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.

Sibley and Joseph Doré 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 agribusiness, 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 3.0 GPA of high school; must have completed 24 hours of college 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 Terrebonne, Iberia, or St. Mary parishes; must be pursuing a career in ag. or some other natural resources field upon graduation; financial need.

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 potential contribution to community.

Greater Baton Rouge State Fair/George Simonneaux Scholarship Full-time FR or SR in the Col. of Agr. with a minimum high school GPA of 3.0 and 22 ACT composite; leadership, citizenship, and financial need.

Iberia Parish Farm Bureau Federation Scholarship SO, JR, or SR in Col. of Agr. with a minimum overall GPA of 2.75;
resident of Iberia Parish and graduate of an accredited Iberia Parish High School; financial need.

Mac Kaskaola Memorial Scholarship FR enrolled in the Col. of Agr.; $3,000 gpa of 3.0 or better and ACT composite score of 21 or higher; interest in the science or business aspect of agr.

Dean J. G. Lee, Jr. Scholarship Full-time student in the Col. of Agr.

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

Lloyd Louden Scholarship UG in the Col. of Agr.; majoring in agribusiness, biological engr., food sci. & tech., or plant or soil sci.; academic achievement and participation in student activities, citizenship, honors, & student offices held; preference given to students from sugar cane growing areas in 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 FR in the Col. of Agr. with a minimum overall gpa of 2.5; parents or grandparents must be members of the LA Cattlemen’s Assoc.; preference given to a female.

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

Louisiana Division of the American Society of Sugar Cane Technologists Scholarship Full-time FR or SR enrolled in the Col. of Agr. majoring in ag. bus., biol. engr., envir. mgt. sys., or plant & soil sys. (agronomic crops & soil science); application must be at least 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 science associations.

Emile A. Maier Endowed Scholarship in Agriculture Full-time student enrolled in the Col. of Agr.; preference given to males who have financial need.

Blanche E. and Dennis V. McCloskey Scholarship Entering FR majoring in agribusiness, animal science, dairy science, or plant & soil systems; academic achievement; participation in student activities, citizenship, honors won, offices held; financial need.

John Walker Melton Scholarship in the College of Agriculture Upperclassman in the Col. of Agr. majoring in agr. Jr. or Sr. student enrolled in the Col. Agr. majoring in a degree in ag., econ., agribus., animal or poultry sci., renewable nat. res., or hum. res. educ.; minimum 2.50 GPA; must be from Rapides, Lincoln, Morehouse, Ouachita, or Union parishes; selection based upon financial aid, leadership, character, citizenship, potential contribution to community.

Laurie S. and Helen N. Mohley 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.; Dept. of Ag. Econ. and Agribus.; LA residents; 3.00 HS gpa and 22 ACT; leadership abilities; citizenship.

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

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

James W. and Edna F. Troth Scholarship Full-time UG in the Col. of Agr.; 2.0 gpa; if incoming FR, must have an overall gpa of 2.50. SO, SR, HR 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-year students in arch. by the Nat. Inst. of Architects.

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

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

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

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

Certificate of Merit, American Society of Landscape Architects (1) Outstanding student in arch. with highest gpa; awarded by Sch. of Land. Arch.

Miriam Garic Barranger Scholarship ($1,500) Annually as funds become available; in UC ceramic; awarded by Sch. of Art.

Baton Rouge Art League Award ($1,250) RSR/GR in art with minimum 3.00 overall gpa; Atwell E. Champion Scholarship ($1,000) UG in arch. and 2.50 or better gpa; awarded by Sch. of Land. Arch.

Dean’s Medal (4) Outstanding student in arch. with highest gpa; awarded by Sch. of Land. Arch.

William Hornsey Scholarship ($1,500) Based on scholarship and financial need; awarded by Sch. of Land. Arch.

Outstanding Graduating 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; available to entering Freshmen and two-year on-campus scholarships available for students attending LSU; see ROTC or Military Science for details.

American Legion ROTC Cadet Scholarship (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 discipline; awarded by the Dept. of Aerospace Studies.

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

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

Based on scholarship and financial need; awarded by Dept. of Aerospace Studies.

Brenda Becquey Memorial Award ($1,500) Incoming FR enrolled in the College of A&S.; must have a 3.40 or higher gpa and in LSU System; awarded by the Col. of A&S.

Barcelona Scholarship (varies) UG student with financial need; must have a 3.40 gpa overall and in LSU System; awarded by Col. of A&S.

Based on scholarship and financial need; awarded by Dept. of Aerospace Studies.

Brenda Becquey Memorial Award ($1,500) Incoming FR enrolled in the College of A&S.; must have a 3.40 or higher gpa and in LSU System; awarded by the Col. of A&S.

Based on scholarship and financial need; awarded by Dept. of Aerospace Studies.

Brenda Becquey Memorial Award ($1,500) Incoming FR enrolled in the College of A&S.; must have a 3.40 or higher gpa and in LSU System; awarded by the Col. of A&S.

Based on scholarship and financial need; awarded by Dept. of Aerospace Studies.

Brenda Becquey Memorial Award ($1,500) Incoming FR enrolled in the College of A&S.; must have a 3.40 or higher gpa and in LSU System; awarded by the Col. of A&S.

Based on scholarship and financial need; awarded by Dept. of Aerospace Studies.

Brenda Becquey Memorial Award ($1,500) Incoming FR enrolled in the College of A&S.; must have a 3.40 or higher gpa and in LSU System; awarded by the Col. of A&S.

Based on scholarship and financial need; awarded by Dept. of Aerospace Studies.

Brenda Becquey Memorial Award ($1,500) Incoming FR enrolled in the College of A&S.; must have a 3.40 or higher gpa and in LSU System; awarded by the Col. of A&S.

Based on scholarship and financial need; awarded by Dept. of Aerospace Studies.

Brenda Becquey Memorial Award ($1,500) Incoming FR enrolled in the College of A&S.; must have a 3.40 or higher gpa and in LSU System; awarded by the Col. of A&S.

Based on scholarship and financial need; awarded by Dept. of Aerospace Studies.

Brenda Becquey Memorial Award ($1,500) Incoming FR enrolled in the College of A&S.; must have a 3.40 or higher gpa and in LSU System; awarded by the Col. of A&S.

Based on scholarship and financial need; awarded by Dept. of Aerospace Studies.

Brenda Becquey Memorial Award ($1,500) Incoming FR enrolled in the College of A&S.; must have a 3.40 or higher gpa and in LSU System; awarded by the Col. of A&S.

Based on scholarship and financial need; awarded by Dept. of Aerospace Studies.

Brenda Becquey Memorial Award ($1,500) Incoming FR enrolled in the College of A&S.; must have a 3.40 or higher gpa and in LSU System; awarded by the Col. of A&S.
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 on students of European history in Eastern Europe; awarded by the Dept. of Hist.

College Symphony Book Store Award (2:varies) Outstanding SO and JR UG major in Aerospace Studies; awarded by Dept. of History.

M. Jane Collins Endowed Scholarship (varies:varies) Full-time incoming freshmen who are majoring in the College of Arts and Sciences with financial needs; GPA: 3.0; preference of Jena High School or LaSalle Parish resident; awarded by College of Arts and Sciences.

General A. Harry Conrad ROTC Scholarship (varies:varies) FT cadet in Dept. of Aerospace Studies or Military Science who 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) UR student majoring in creative writing in Eng; awarded by Dept. of English.

Gary A. Crump Scholarship (1:varies) UR student in history; awarded by Dept. of History.

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

Jane Lucas Degrummond Memorial Scholarship (varies:varies) FT student majoring in HIST with a minimum overall GPA of 3.0, awarded by the Dept. of History.

Colonel Charles J. “Chuck” Dumas Air Force ROTC Scholarship (varies: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 Auditors Scholarship (2:5,000) GR in final yr. of master’s program in audiology; outstanding academic and clinical performance; one awarded each sem. by Dept. of Comm. Sci. 

European Summer Session Latin Scholarship (3:500) 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 Fassulo Scholarship (varies:varies) Nominee 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.

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


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

Friends of French Studies Graduate Student Scholarship (varies:varies) FT student majoring in French interested in French business for 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 UG student in English, literature, or culture; special preference given to students in Old French and/or Old Provençal; awarded by Dept. of French Studies. 

Col. John L. Hinderdeick 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. Hoffman Memorial Scholarship (varies:varies) FT UG majoring in History with a minimum overall GPA of 3.0; awarded by Dept. of History.

Henry V. Hovsepian Memorial Scholarship (See Col. of Basic Sciences)

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

Elise N. and Charles E. Kaufman Endowed Scholarship (varies:varies) A&S student with financial need; have 3.40 overall GPA and in LSU System; awarded by the Col. of A&S.

*Agatha LaCroix Award (1:varies) Outstanding student majoring in French Studies; awarded by the Col. of A&S.

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

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

Roguet 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 as an independent study; minimum 3.00 GPA. Awarded by the Dept. of French Studies.

Herbert Huey McEwen Scholarship (1:$500) A&S student; must have overall 3.40 GPA and in LSU System; awarded by the 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 (varies: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 Services 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 ENG, awarded by College of A&S.

Sidney Richard 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 Mu Sigma Rho.

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

Police Jury Association 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 Roeder 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 Geol. & Geophysics.

Corinne L. Sauier Romance Language Scholarship (1:$1,000) Graduating SR in French or Spanish; for advanced standing graduate student; awarded by Dept. of French Studies. 

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 Hist.

Stage Academic Scholarship (1:$1,000) UG student who has completed five semesters of French (through FREN 2155); selection criteria includes scholarship, leadership, potential and meet the ROTC requisite academic and physical fitness standards; awarded by Dept. of French Studies.

Adams-Holmes Thespian Trophy Memorial Scholarship (varies:varies) Most outstanding incoming GR in French; awarded by Dept. of French Studies.

Clara Tucker Scholarship (1:$700) Female GR in pol. sci.; awarded by Dept. of Pol. Sci.

United Services Automobile Association Scholarship (varies:varies) SOPH or JR Air Force; statement of intent, and convolutional skills; awarded by Dept. of French Studies.

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. Weil 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:varies to $1,500) GR in geog. & anth. conducting field work for 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 Book Store Award (1:varies) Outstanding UG soc. major; awarded by the Dept. of Hist.

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 Psy.; UG student with a minimum 3.5 overall GPA and 3.5 GPA in psychology; must be graduating senior in spring, or fall semester following application; awarded by the Dept. of Psy.

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.

Harvard-Mitton Bachel Bachel Mural Fund (2:$1250) GR 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 Bouscat 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.

Gannett-Channum 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 GR major in geol.; academic ability; U.S. citizen; awarded by the Dept. of Geol. & Geophysics.

*Chevron Texaco Graduate Scholarship (1:$4,000) GR major in Geol.; awarded by Dept. of Geol. & Geophysics.
Chevron Undergraduate Scholarship ($1,000) UG major in computer sci.; U.S. citizen or permanent resident; awarded by Col. of Basic Sci.

* A. R. Chappell Memorial Scholarship ($2,500) SOJR/SR in Col. of Basic Sci.; Must be planning to enroll in Col. of Basic Sci.; LA resident; former citizen of LA Boys’ or Girls’ State; awarded by Col. of Basic Sci. & Adv. Study Committee.

Johnny Dardenne, Sr. Texas Tiger Tournament Scholarship ($2,750) UG major in Col. of Basic Sci.; academic ability and financial need; awarded by Col. of Basic Sci. & Adv. Study Committee.

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

**Bettie and Robert Giles Senior Mathematics Award (varies:$250) For outstanding scholastic performance by SRS major in math; awarded by Col. of Basic Sci. & Adv. Study Committee.

**Dr. Joel Hazel Student Memorial 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 ($1,500) 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. Howard Fincher Scholarship ($2,500) GR major in geol.; academic ability; awarded by Dept. of Geol. & Geophysics.

**Branch J. Latilais Memorial Scholarship (1:$1,000) JR/SR in geol. or pet. engr.; academic ability; awarded by Col. of Basic Sci.

**Chevron ISDS Scholarships (1:varies) (5:$2,000) GR major in geol.; academic ability; nominated by Dept. of Geol. & Geophysics; awarded by the American Chemical Society (1:$500) UG majoring in Biochemistry; awarded for academic ability; awarded by the Department of Geology & Geophysics.

* Virginia R. Williams Memorial Scholarship (2:$1,000) GR 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.; academic ability; awarded by Dept. of Geol. & Geophysics.

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

* 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.

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 same semester of award; awarded by the faculty advisor of the LSU student chapter of IMA.

B.R. Board of Realtors—Ingalls, Francis R. Scholarship (1:variable:$500) JR/GR student candidate for MS in finance or MBA with career interest in public accounting; financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

L.A. Champagne Memorial Scholarship (3:$1,000) 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 SDS; 3.0 GPA; US citizen; awarded by ISDS scholarship committee.

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

**J. Clifford Dorrion Scholarship (1:varies) UG in ourso.Col. of Bus. with 3.00 GPA.

**A. R. Choppin Scholarship (2:$1,500) UG major in Accounting; 3.50 GPA; financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

Mr. and Mrs. R. Irby Didier, Sr. Endowed Memorial (1:$2,500) Outstanding SR in banking; must begin SR year in fall semester; native LA resident; financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

Auburn University Scholarships ($250) UG student in ACCT.; financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

**Clarence Dunn Accounting Dept. Recognition Awards (1:varies) ACT major in accounting; awarded by Ourso Col. of Bus. Scholarship Committee.

**El Paso Energy Scholarship (1:$2,000) JR/GR student candidate for MS in finance or MBA with career interest in public accounting; financial need; awarded by the Dept. of Accounting Scholarship Committee.

**Ernst & Young LLP (1:varies) Outstanding JR in ACCT. with interest in public accounting; must be a citizen of LA; financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

**Hamrick Holloway Finance Scholarship (1:varies) Outstanding graduate student in ACCT.; financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

**Hammons and Godfrey, Inc. Scholarship (1:varies) Outstanding female UG majoring in ACCT. with academic ability; financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

**J. Clifford Dorrion Scholarship (1:varies) UG in ourso.Col. of Bus. with 3.00 GPA.

**A. R. Choppin Scholarship (2:$1,500) UG major in Accounting; 3.50 GPA; financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

**B. R. Board of Realtors—Ingalls, Francis R. Scholarship (1:variable:$500) JR/GR student candidate for MS in finance or MBA with career interest in public accounting; financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

**L.A. Champagne Memorial Scholarship (3:$1,000) 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 SDS; 3.0 GPA; US citizen; awarded by ISDS scholarship committee.

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

**J. Clifford Dorrion Scholarship (1:varies) UG in ourso.Col. of Bus. with 3.00 GPA.

**A. R. Choppin Scholarship (2:$1,500) UG major in Accounting; 3.50 GPA; financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

**Clarence Dunn Accounting Dept. Recognition Awards (1:varies) ACT major in accounting; awarded by Ourso Col. of Bus. Scholarship Committee.

**El Paso Energy Scholarship (1:$2,000) JR/GR student candidate for MS in finance or MBA with career interest in public accounting; financial need; awarded by the Dept. of Accounting Scholarship Committee.

**Ernst & Young LLP (1:varies) Outstanding JR in ACCT. with interest in public accounting; must be a citizen of LA; financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

**Hamrick Holloway Finance Scholarship (1:varies) Outstanding graduate student in ACCT.; financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

**J. Clifford Dorrion Scholarship (1:varies) UG in ourso.Col. of Bus. with 3.00 GPA.

**A. R. Choppin Scholarship (2:$1,500) UG major in Accounting; 3.50 GPA; financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

**B. R. Board of Realtors—Ingalls, Francis R. Scholarship (1:variable:$500) JR/GR student candidate for MS in finance or MBA with career interest in public accounting; financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

**L.A. Champagne Memorial Scholarship (3:$1,000) 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 SDS; 3.0 GPA; US citizen; awarded by ISDS scholarship committee.

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

**J. Clifford Dorrion Scholarship (1:varies) UG in ourso.Col. of Bus. with 3.00 GPA.

**A. R. Choppin Scholarship (2:$1,500) UG major in Accounting; 3.50 GPA; financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

**Clarence Dunn Accounting Dept. Recognition Awards (1:varies) ACT major in accounting; awarded by Ourso Col. of Bus. Scholarship Committee.

**El Paso Energy Scholarship (1:$2,000) JR/GR student candidate for MS in finance or MBA with career interest in public accounting; financial need; awarded by the Dept. of Accounting Scholarship Committee.

**Ernst & Young LLP (1:varies) Outstanding JR in ACCT. with interest in public accounting; must be a citizen of LA; financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

**Hamrick Holloway Finance Scholarship (1:varies) Outstanding graduate student in ACCT.; financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

**J. Clifford Dorrion Scholarship (1:varies) UG in ourso.Col. of Bus. with 3.00 GPA.

**A. R. Choppin Scholarship (2:$1,500) UG major in Accounting; 3.50 GPA; financial need; awarded by Ourso Col. of Bus. Scholarship Committee.

**Clarence Dunn Accounting Dept. Recognition Awards (1:varies) ACT major in accounting; awarded by Ourso Col. of Bus. Scholarship Committee.
Committee.

JR/SR in banking or finance; min 3.00 gpa; financial need; graduate of EBR parish high school; recipient can receive scholarship for two academic years awarded by Col. of Educ.

JR/SR female in finance or banking; min 3.00 gpa; financial need; student from New Orleans area; 24 ACT; full time student; awarded by Col. of Educ.

Lilly Ollison Scholarship Full-time FR in good standing in Col. of Educ.

Jerry Owens Scholarship in Kinesiology Full-time in kinesiology; 3.00 gpa; financial need. Awarded by Col. of Educ. seeking initial certification (Holmes Program); 3.00 gpa.

Premier Scholars of Kinesiology Full-time in kinesiology; 3.00 gpa; involvement in community service leadership character, and scholarship.

Harry Rabenhorst Scholarship Full-time 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 FR in good standing in Col. of Educ.

Fred G. Thatcher Fellowship FR in physical education, coaching, or athletic administration; 3.00 gpa; awarded by Col. of Educ. seeking initial certification in physical education.

Tiger Athletic Foundation Scholarship Full-time in good standing in Col. of Educ.

COLLEGE OF ENGINEERING

Awards

American Institute of Chemists Award (1cerificate) UG in chem. engr. with outstanding leadership ability, character, and scholarship.

Carter Brown Book Award (varies:varies) FT; JR/SR in civil engr.; 3.00 gpa; financial need; awarded by Dept. of Civil & Engr. Engr.

Cajun Constructors Award for Diversity in Construction Management Full-time UG as a declared contractor major; preference 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. Eng.

Michael A. Clause Memorial Fund Award (1varies) UG in civil engr.

*Donald W. Clayton Engineering Excellence Awards-Graduate (varies:varies) FT; GR, U.S. citizen or perm. resident; good academic record and desire to enroll in grad. program at LSU.

Dow Outstanding Junior Award ($15,000) RI 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. of Bus.

Paul M. Horton Award (1$500) Outstanding LSU chem. engr. graduate who enterLSU Graduate School.

Edward McLainigh Medal for Excellence (varies:varies/medal) FT; UG; participated in Plant Design Project Contest; awarded by Dept. of Chem. Eng.

Norbert Rilleux 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 study

Anadarko Petroleum Corp School; awarded by Col. of Engr.; gpa; declared mech. engr. major; financial need considered; Ned Adler Memorial

ExxonMobil Diversity in Engineering Scholarship

Jimmy Stone Graduate Fellowship in Engineering

given to under grad students; U.S. citizen; overall 3.30 gpa.; percent in chem. engr.; 3.50 gpa in chem. engr.; awarded by Col. of Chem. Engr.

Chevron Engr. Careers Pre-Doc. Scholarships

Full-time gpa; declared mechanical engineering major; financial need considered; Southern Louisiana State University; award by LA Dept. of Engr. and Science; U.S. citizen; overall 3.0 gpa.; for all levels in LA.

Robert R. Bryan Scholarship (varies:varies) FT; UG in pet. engr.; awarded by Dept. of Pet. Engr.


Cajun Constructors Award for Diversity in Construction Industry (varies:varies) FT; UG in civil engr.; awarded by Dept. of Civ. Engr.

Department of Petroleum Engineering (varies:varies) FT; UG; CM major; financial need considered; must have been born in Louisiana or have at least one parent born in LA; priority given to student expressing interest in “alternative energy solution”;

Charles M. Carraway and Joanne M. Carraway Scholarship

Full-time gpa in pet. engr.; 3.0 gpa; financial need considered; Chemical Engineering

Celanese Chemicals Chemical Engineering Scholarship (varies:$500) FT; UG; CHE sophomore or junior, 3.0 gpa; U.S. citizen or permanent 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 gpa in educ. and commun. engr.; 3.0 gpa; financial need considered; must have been born in Louisiana or have at least one parent born in LA; priority given to student expressing interest in “alternative energy solution”;

Chemical Engineering Scholarship Fund (varies:varies)

Chevron Texaco Company Scholarships in Chemical Engineering (varies:$1,000) FT; GR; scholarship given to students whose enrollment and leadership promote diversity should also be considered; Chemical Engineering Scholarship Fund

Chevron Texaco Scholarship in Electrical Engineering (varies:varies) FT; UG in civil engr.; 3.0 gpa; preference to upperclassmen who promote leadership and diversity;

Chevron Texaco Scholarships in Petroleum Engineering (varies:varies) FT; UG in pet. engr.; U.S. citizen or permanent immigration visa; awarded by Dept. of Pet. Engr.

Chevron Texaco Scholarship in Civil Engineering (varies) FT; UG in civ. engr.; 3.0 gpa; must exhibit leadership

Class of Late 1970s Alumni Scholarship (varies:varies)

*Chevron Texaco Scholarship Fund in Mechanical Engineering (varies:$1,000) FT; UG; CM major; financial need considered; must have been born in Louisiana or have at least one parent born in LA; priority given to student expressing interest in “alternative energy solution”;

*Jesse Coates Award (varies) FT; UG in chem. engr. who shows most outstanding leadership;

COE Alumni Scholarship (varies:varies) in eng.; awarded by the Col. of Eng.

*Conoco Phillips Undergraduate Scholarship in Chemical Engineering (varies) FT; UG in chem. engr.; awarded by Dept. of Chem. Engr.

Construction Industry Advancement Fund of Lafayette and Vermilion Parishes Scholarship Fund (varies:varies) FT; UG; CM major; SO/JSR, resident of Acadiana, Evangeline, Iberia, Lafayette, St. Landry, St. Martin, St. Mary, or Vermilion parish. Selection based on leadership, need, and association with the construction industry.

Construction Management Miscellaneous Donors Scholarship (varies)$500) FT; UG in const. engr.; 3.0 gpa;

Stanley M. and Hilma R. Cothren Scholarship

Full-time gpa 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) in pet. engr.; awarded by Dept. of Pet. Engr.

Craft & Hawkins Endowed Scholarship (varies:varies)

Full-time gpa in pet. engr.; awarded by Dept. of Pet. Engr.

Devon Energy Corporation Petroleum Engineering Scholarship

Full-time gpa with declared major in pet. 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 gpa in civil, industrial, mechanical or petroleum engineering; preference to students from Istrouma Senior High School (Baton Rouge), Belaire Senior High School (Baton Rouge), or Denham Springs High School (Denham Springs, LA); or those who have a family heritage in Baton Rouge; awarded by Col. of Eng.

O. Dewitt Duncan Scholarship (varies:varies) Full-time gpa in chem. engr.; 2.50 gpa; awarded by the Dept. of Chem. Engr.
Dupont Chemical Scholarship (varies:$1500) FT; SO/IR 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. Eng.
ENG*2 Scholars for Success (varies:varies) FT; SO/IR/R in mech. engr.; academic ability & leadership; awarded by CoE Diversity Programs.
Earl and Maryanne Evans Engineering Scholarship (1(varies) FT; SO/IR/R in chem. engr.; academic ability; top 25 percent of high school classes; 26 ACT; awarded by Col of Eng.
Exxon Mobil Diversity in Engineering Scholarship (varies:varies) FT; SO/IR/R in chemical engineering; 3.00 gpa; financial need; awarded by CoE Diversity Programs.
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 in college in civil engr.; awarded by Dept. of Civil & Envir. Engr.
Robert G. Flory Scholarship Fund (varies:varies) Full-time M.S. in chem. engr.; 3.00 gpa; U.S. citizen; LA resident of Acadia, Lafayetey, or Vermillion Parish; awarded by Dept. of Elec. Engr.
Vincenl Forte Graduate Fellowship (1:$2000) GR in engr.
Don Ray George Scholarship (varies:varies) Full-time UG in high school; awarded by the owner.
Gerald Family Undergraduate Scholarship in Chemical Engineering (varies:$1,000) UG in chem. engr.; LA resident; awarded by Dept. of Chem. Eng.
Karl Germain Memorial Scholarship (varies:varies) Full-time UG in mech. engr.; enrolled in Col. of Eng.; 2.95 gpa; awarded by the owner.
Frank J. Germano Memorial Scholarship (varies:$1,000) SO/IR/GR in civil engr.; financial need; awarded by Dept. of Civil & Envir. Engr.
Henry Gilbert Scholarship (varies:varies) UG/GR in 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 & Envir. Engr.; Interfraternity Academic Council president, and Louisiana resident.
Clara and Frank Groves, Sr. Scholarship (1:$1,200) UG in chem. engr.; need and academic promise; awarded by Dept. of Chem. Engr.
Gulf South Petroleum Co. Scholarship Supplement (varies:varies) U.S. citizen, needed, FT UG in one of the following fields of engineering: ChE, CE, ECE, IE ME, or PETE; another criterion 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 Louisiana; awarded by Dept. of Chem. Engr.
Murphy J. Hebert Family Scholarship in Petroleum Engineering (varies:varies) Full-time UG in petroleum engineering; 3.00 gpa; financial need may be considered; first preference given to Louisiana citizens and U.S. citizens; second preference given to any other student who has an LSUS alumus parent or grandparent.
Baton Rouge Family Scholarship (varies:varies) UG in engr.; need and academic promise; awarded jointly by Col. of Engr. and LERS-BR. Marathon Engineering Diversity Undergraduate Scholarship (varies:varies) FT, SO/IR/R, in civil engr.; 3.00 gpa & academic excellence; awarded by CoE Diversity Programs.
Raytheon Scholarship (1:$1,000) FT; UG in pet. engr.; 2.50 gpa; preference for minority students.
Roth Family Scholarship (varies:varies) JR or SR in chem. engr., need and academic promise; awarded by the Dept. of Chem. Engr.
Hermann Schuler Family Scholarship (1:$1,000) SO or above in engr.; 3.00 gpa; awarded by Col. of Engr.
*George Raymond Scholarship (varies:varies) UG in eng.; 2.50 gpa; awarded by Dept. of Elec. Engr.
Petroleum Engineering General Scholarship—Newfield Exploration Company (2:$1250) UT; in eng. in petroleum engineering.
Petroleum Engineering Miscellaneous—API Houston Chapter (varies:$725) UT; in eng. in petroleum engineering; 2.00 gpa; academic ability and potential for success.
Petroleum Engineering Miscellaneous—SPE Dallas section (varies:$100) Pt, GR in GR in eng. or pet. engr.; 2.00 gpa; academic merit and potential for success.
*Petroleum Engineering Miscellaneous—RPSEA Section (varies: $1000) UT; in eng. or pet. engr.; 2.00 gpa; academic merit and potential for success.
Ruth Family Scholarship (varies:varies) JR or SR in chem. engr., need, and academic promise; awarded by Dept. of Chem. Engr.
Society of Petroleum Engineers, Evangeline Section, Scholarship (varies:varies) UG in chem. engr.; preference for civil & mech. engr.; awarded by the Dept. of Chem. Engr.
*Richard O’Shields Scholarship (varies:$1,000) UG in engr.; 3.00 gpa; awarded by Dept. of Pet. Engr.
*ONR/IBEC Future Engineering Faculty Award (1十三届) FT or GR in engr.; awarded by Dept. of Chem. Engr.
*Wiley D. Poole Memorial Scholarship Full-time UG, JR, SR majoring in biol. engr.; 3.00 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 eng.; 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., need, and academic promise; awarded by the Col. of Engr.
Hermann Schuler Family Scholarship (1:$1,000) SO or above in engr.; 3.00 gpa; awarded by Col. of Engr.
*Petroleum Society of Engineers, 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 & Spieler—J.R. Spieler Scholarship (varies:varies) Full-time UG in engr.; financial need; academic merit; awarded by Dept. of Pet. Engr.
Carl Stevenga Engineering Scholarship (varies:varies) Full-time UG; 2.00 gpa; St. Mary, St. Martin or Beria Parish resident; awarded by Col. of Engr.
Roberta S. Cademic Scholarship (varies:varies) Full-time UG in engr.; 2.50 gpa; financial need; awarded by Col. of Eng.
TAF Engineering Award (varies:varies) FT or PT; UG in engr.; awarded by Bes. Ag. Engr.
Patrick F. Taylor Scholarship (varies:varies$1500) FT; UG in engr.; 2.750 gpa; U.S. citizen with financial need and academic merit; awarded by Col. of Diversified Programs.
Texas Tigers Golf/Houston Scholarship (varies:varies) Full-time UG in pet. engr.; 3.50 gpa; financial need; presented by the Student Council; awarded by Dept. of Pet. Engr.
Carl H. Thomas Memorial Scholarship Full-time SO, JR, SR in biol. engr.; 3.00 gpa or above; awarded by 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-$3,500) FT; UG, sophomore-more-senior, major in ChE, ME, or CEE, 2.8 gpa, 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 to appropriate 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 finance; electrical and instrumentation, industrial automation, finely engraved; awarded by the CMIE Department.
Unrivalled Scholarship (varies:varies) JR in engr. env.; 3.00 gpa; awarded by Dept. of Civil & Envir. Engr.
Unocal Foundation Scholarship Full-time UG in pet. engr.; 3.00 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 & Envir. 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 civil engr.; major 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 W&T Offshore.
*Claire & Bobby Yeargain Scholarship (varies:varies) Full-time UG in asphalt technology in civil engr.; awarded by Dr. D. Ofly.

MANSHIP SCHOOL OF MASS COMMUNICATION

Patricia Wilson Baldrige Memorial Scholarship (1varies) 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.
Pet Beardsley Scholarship (1varies) Full-time comm. major; 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 the Manship Sch.
Albert and Virginia Bunch Scholarship (1varies) Entering FR in mass comm.; awarded by Manship Sch. of Mass Comm.
John Henderson Cademic Memorial Scholarship (1varies) Full-time print or broadcast communications major with 3.00 gpa; UG in 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 (1varies) 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 Gilkinson Falk Student Travel Grants (varies:varies) Meritorious mass comm. students; awarded by Manship Sch. of Mass Comm.
Guaranty Broadcasting Scholarship (1varies) 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 agirc. journalism; additional funding available for approved travel; awarded by the LSU Ag. Cte.
*Benjamin F. Leeper Memorial Scholarship (1varies) 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 Nolting Memorial Scholarship (1varies) Full-time mass comm. major with at least 3.00 overall gpa; may reapply for additional year.
*Philippa Pinh Outstanding Senior Award (1Certif.) SR with highest gpa; selected by Dean, Manship Sch. of Mass Comm.
Bryan Putman Memorial Scholarship (varies) SO/RJ/GR mass comm. with 3.00 gpa; awarded by Manship Sch. of Mass Comm to financially needy students.
Barbara Calvit Rogers Scholarship (1varies) Full-time JR or SR mass comm. major.
Melvin and Charlotte Schexnayder Scholarship (1varies) Entering FR with demonstrated interest in journalism; or FR full-time mass comm. major in print journalism.
*Joseph M. Silverberg Memorial Scholarship (1varies) SR in news-editorial; graduate of LA high school; 3.00 gpa; awarded by Manship Sch. of Mass Comm.
Patrick J. Sorrells Scholarship (1varies) UG/GR major with an interest in advertising sales.
Byron St. Dizier Endowed Scholarship (1varies) SR in mass. comm. 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 interest in mass comm. and/or theatre; 3.00 gpa; awarded by L’Acadie Chapt. of American Women in Radio and Television, in consultation with Theatre faculty.
WRKF Scholarship (1$500) Mass comm. major; 60 hours minimum; 2.75 gpa required.
David Yates Memorial Award (1varies) 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.
Hule-Hellman Endowed Scholarship 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 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 Lake 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 Research and Graduate Studies in the Manship School of Mass Communication.

COLLEGE OF MUSIC & DRAMATIC ARTS

Awards
Lucille J. Blum Award in Music (2varies) 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 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; academic merit.
Frances Greer Scholarship in Voice (varies) UGGR music majors in voice; awarded by the School of Music.
*Forrest F. Griffin Scholarship (varies) Outstanding UGGR tuba or low brass student(s); awarded by low brass faculty.
*Francis Taylor Kurzweg Distinguished Pianists Scholarship (2varies) GR; awarded by the dean of the School of Music.
Louisiana Music Award (varies) UGGR; renewable; based on competitive auditions and academic standing; awarded by the dean.
Baton Rouge Music Club, Marshall Peery Scholarship (1varies) GR student; by audition; awarded by Baton Rouge Music Club.
Baton Rouge Music Club, Gertrude Bott Bauzier Scholarship (1varies) JR instrumental student, by audition.
Opera Guild of Baton Rouge Scholarship (2varies) Outstanding voice student who is (or will be) enrolled in opera workshop; awarded by Sch. of Music.
*Gladys Means Loyd Scholarship (1fee waiver for two sem.) JR/GR or female GR in theatre; academic ability and talent; awarded by theatre faculty.
Suzanne Chancey-O’Quinn Travel Grant Fund for MFA Directors (varies) Meritorious director students in Theatre MFA program in need of travel funds to conferences or graduate studies or as apprentices on professional productions; awarded by Dean of Theatre.
John Patterson Scholarship (varies) Outstanding bass student(s); awarded by Sch. of Music.
Piano Pedagogy Scholarship (varies) UG/GR piano pedagogy major; gpa; awarded by the Sch. of Music.
Theodore Presser Foundation Scholarship (1varies) Outstanding UG in Sch. of Music; awarded by Sch. of Music.
Earl Redding Memorial Prize in Musical Theatre (varies) UG concentrating in voice; awarded by Sch. of Music.
*Claude L. Shaver Scholarship (1fee waiver) UG/GR in theatre; academic ability and theatre talent; awarded by theatre faculty.
Oramay Welch Young Scholarship (varies) Awarded to full-time, in need of music student.
Frank Collins Memorial Scholarship (1varies) UGGR concentrating in organ; awarded by Sch. of Music.
*Helen Libby Cordier Memorial Scholarship in Violin (1varies) UG violin student; awarded by Sch. of Music.
*Dr. Michael A. Galasso Memorial Scholarship (1varies) UG/GR incoming violin student; awarded by Sch. of Music.
Alvin Earl Hatton Memorial Scholarship (varies) Key-board students; preference to organ; awarded by Sch. of Music.
*L. Bruce Jones Memorial Scholarship (varies) UGGR concentrating in music education; excellent academic record; awarded by Sch. of Music.
*Kenneth Klaus Viola Scholarship (1varies) Student concentrating in strings in music and/or instrumental and academic ability and financial need; awarded by Sch. of Music.
*Byron Lamb Memorial Scholarship (1:varies) Out- standing UG/GR tuba or low brass student; awarded by Sch. of Music.

Charles L. Pelle Scholarship in Piano (varies) Awarded by Sch. of Music.

Richard F. Norem, Sr. Scholarship (1:varies) Awarded to outstanding student concentrating in Horn; musical and academic ability; citizenship; awarded by the Sch. of Music.

Brent Ribeaux Scholarships (1:varies) Awarded to UG studying percussion.

The Richime Fund (varies) Awarded to outstanding UG or GR student in chemical and academic ability; awarded by the Sch. of Music.

*Barrett and Mae Stout Memorial Scholarship (1:varies) One time undergraduate with at least a 3.00 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; first preference to students from St. Charles, Orleans, Jefferson, or St. John the Baptist parishes; financial need considered; non-renewable.

*Byron Lamb Memorial Scholarship (1:varies) Out-standing UG/GR tuba or low brass student; awarded by Sch. of Music.

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 Terrebonne parishes; awarded by the Sch. of Nursing.

Tiger Athletic Foundation Scholarship ($1,000) FR student with a minimum of 15 credits and at least a 3.5 gpa; must be a U.S. citizen; parent family. Preference given to student whose parent is deceased; 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 a 3.5 gpa; must be U.S. citizen and can hold no other scholarship; including TOPS; student must be enrolled full-time at LSU; non-renewable.

The Tweedy Family Scholarship ($500) 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.

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, alumni, relatives; awarded by the Sch. of Business.

*Jacob R. Bankston Scholarship (1:varies) Student must have specific documented disability. Recommended by the Office of Disability Services. Awarded by S&S Committee.

*Philip J. Barbor Memorial Scholarship (varies:varies) Awarded to undergraduate students with financial need. minimum 3.00 gpa; awarded by Office of S&S.

*Skipp Bertland Leadership Scholarship (varies:varies) Awarded to EF demonstrating academic ability; financial need may be considered; awarded by S&S Committee.

Board of Supervisors Scholarship (varies:varies) Scholarships are awarded to 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 the lsusystem.lsu.edu.

*Brooks-Lee/Continent Oil and Gas Association Energy Scholarship (1:varies) JR or SR in an energy related discipline. Selected 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 S&S Com.

*Charles F. Dohrer Memorial Scholarship (varies:varies) Entering FR; awarded by the Office of S&S.

*Charles F. Dohrer Memorial Scholarship (1:varies) Graduate of Live Oak high school; awarded by the Office of S&S.

*Christine Claire Cosby Scholarship (1:varies) Graduate of Live Oak high school; awarded by the Office of S&S.

*Dauphine/Williams Scholarship (varies:varies) FR graduate of Woodlawn High School (B.R., LA.); awarded by S&S Com. on recommendation of Woodlawn High School principal.

*Ben Meyer Scholarship (varies:varies) LA residence; demonstrated academic ability and financial need; awarded by the Office of S&S.

*FAISSA/Forrest F. Givens Scholarship (varies:varies) Graduate of a LA high school; awarded by the Office of S&S.

*Michael C. Hardin Memorial Scholarship (varies:varies) Graduate of a LA high school; awarded by the Office of S&S.

*James M. Koenig Scholarship (varies:varies) Awarded by student whose parent is deceased; student must be enrolled full-time at LSU; non-renewable.

*General Gordon Ingersoll Award (1:$500) Awarded to a student with an excellent academic record. Awarded by S&S Committee.

*Civil Engineering Scholarship (varies:varies) Awarded to a student majoring in engineering or science/mathematics; minimum 3.00 gpa and 23 ACT; preference for graduates of Amite High School. Awarded by the Office of the Dean.

*Joseph A. Kleinheister Scholarship (1:varies) LA resident in pre-law, pol. sci., or government; awarded by S&S Com.

LSU: Kiwanis Club Scholarship (2:$750) Dependent of LSU faculty/staff entering SR college in fall semester; awarded by Office of S&S.

Louisiana Boys' State (varies) Awarded by Youth Leadership Institute; awarded by S&S Com.

Captain John Adrian Martin Memorial Scholarship (1:$1,000) Entering FR; awarded by the Office of S&S.

*General Gordon Ingersoll Award (1:$500) Awarded to a student with an excellent academic record. Awarded by S&S Committee.

*Byron Lamb Memorial Scholarship (1:varies) Awarded to a student from St. Charles, Orleans, Jefferson, or St. John the Baptist parishes; financial need considered; non-renewable.

*Don Redden Scholar (varies:varies) Awarded to a student from St. Charles, Orleans, Jefferson, or St. John the Baptist parishes; financial need considered; non-renewable.

*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, alumni, relatives; awarded by the Sch. of Business.

*Jacob R. Bankston Scholarship (1:varies) Student must have specific documented disability. Recommended by the Office of Disability Services. Awarded by S&S Committee.

*Philip J. Barbor Memorial Scholarship (varies:varies) Awarded to undergraduate students with financial need. minimum 3.00 gpa; awarded by Office of S&S.

*Skipp Bertland Leadership Scholarship (varies:varies) Awarded to EF demonstrating academic ability; financial need may be considered; awarded by S&S Committee.

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 the lsusystem.lsu.edu.

*Brooks-Lee/Continent Oil and Gas Association Energy Scholarship (1:varies) JR or SR in an energy related discipline. Selected 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 S&S Com.

*Charles F. Dohrer Memorial Scholarship (varies:varies) Entering FR; awarded by the Office of S&S.

*Christine Claire Cosby Scholarship (1:varies) Graduate of Live Oak high school; awarded by the Office of S&S.

*Dauphine/Williams Scholarship (varies:varies) FR graduate of Woodlawn High School (B.R., LA.); awarded by S&S Com. on recommendation of Woodlawn High School principal.

*Ben Meyer Scholarship (varies:varies) LA residence; demonstrated academic ability and financial need; awarded by the Office of S&S.

*FAISSA/Forrest F. Givens Scholarship (varies:varies) Graduate of a LA high school; awarded by the Office of S&S.

*Michael C. Hardin Memorial Scholarship (varies:varies) Graduate of a LA high school; awarded by the Office of S&S.

*George W. Hofflin Memorial Scholarship (4:$500) UG from Arkansas Parish in agriculture, outstanding ACT scores and academic ability; awarded by the Office of S&S.

*General Gordon Ingersoll Award (1:$500) Awarded to a student with an excellent academic record. Awarded by S&S Committee.

*Henry H. and Clare Roy Thibodeaux Scholarship (varies:varies) Graduates of high schools in certain parishes; financial need may be a consideration; awarded by the Office of S&S.
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 by 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) —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.

In addition to the 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
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 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.

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.

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.
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.lsu.edu/foodplan) for information on meal plans, locations, and pricing.

APPLICATION FEES

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
- Replacement diploma fee, $30 (charged if a diploma is ordered and student does not graduate at that commencement)

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 $2,126 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 Service Fees). 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 Student Health Services 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 administered 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 1-20 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).
- Minimum 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 form 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

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 students 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 "Deferr 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.

<table>
<thead>
<tr>
<th>Semester • Summer Term</th>
<th>100% Refund</th>
<th>90% Refund</th>
<th>50% Refund</th>
<th>No Refund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall or Spring Semester</td>
<td>Before class begins</td>
<td>First 6 class days</td>
<td>7th–24th class day</td>
<td>After 24th class day</td>
</tr>
<tr>
<td>Summer Session A</td>
<td>Before class begins</td>
<td>First 3 class days</td>
<td>4th–12th class day</td>
<td>After 12th class day</td>
</tr>
<tr>
<td>Summer Session B</td>
<td>Before class begins</td>
<td>First 3 class days</td>
<td>4th–7th class day</td>
<td>After 7th class day</td>
</tr>
<tr>
<td>Intersessions</td>
<td>Before class begins</td>
<td>First class day</td>
<td>2nd–4th class day</td>
<td>After 4th class day</td>
</tr>
</tbody>
</table>
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 graduating 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 intersession are not tracked and can be used by students to complete tracking requirements that have not been met. 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 in four years, 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

Students not making minimal progress 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, the student should consult 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 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.

<table>
<thead>
<tr>
<th>Hours Earned</th>
<th>Withdrawals Allowed Since August 2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-59</td>
<td>........................................</td>
</tr>
<tr>
<td>60-119</td>
<td>........................................</td>
</tr>
<tr>
<td>&gt; 119</td>
<td>........................................</td>
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</tbody>
</table>

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.

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 indicate 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.

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 a 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.

If 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 ensure course enrollment and 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 changes 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." Many college deans do not approve a transfer course for general education credit, the student may petition the Office of Academic Affairs for a decision.

**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 awarded 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 fulfill 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 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 LSU System. If the final examination is not taken by the last day of the final examination period of a semester/summer term, the grade will be posted to the next regular semester or summer term.
- 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 course syllabus 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.

Final 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 appeals process, 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 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" is good mastery; a grade of "C" is minimal 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 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 gpa.

- "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 resigation 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 deficient work to be of failing quality, and an "F" grade may not be assigned. It is the responsibility of the student to initiate the request for the academic dean’s authorization.

An "I" grade will be converted to "F" unless it is removed during the next regular semester in which the student is enrolled 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, gpa 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, the student 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...
obtain complete transcripts of their academic former and currently enrolled students may final grades. may request, via PAWS, that the Office of the cial accounts with the Uni in their academic status, pro course, a change from pass dual enrollment courses. permitted to earn a total of no more than 12 computing the student’s gpa. Students are but the grade will not be considered in high school students whose work is below “C” quality will automatically be reflected as “AU,” or audit. Auditors will not receive 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, courses 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 midterm grades are available through PAWS. If there is a change in their academic status, provided their financial accounts with 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 Uni- Versity 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 should 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 person-“family” 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 Super- vision
  - 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 or 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 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.

Undergraduate Degree Requirements • Regulations 71

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.

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
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 by the student.

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. Warning lasts a calendar year. A notation to that effect will be recorded on their transcripts. Students 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. Probation lasts a calendar year. Students remain on University Scholastic Probation until they have cumulative averages of 2.00 or higher on all college work attempted and enrolled 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 deficiencies 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 may register for degree only during the subsequent fall semester and receive their degrees at December Commencement.

Students in University Scholastic Drop may not enroll at LSU. Students attempting to graduate with University Scholastic Drop may not graduate at the end of any fall or spring semester if their gpa is less than 2.00.

The Summer Term/Intersessions

Students cannot be placed on University Scholastic Probation or dropped from the University on this 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 re-enrollment when they have met the requirements of their academic program. Students dropped for 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 of readmission, time of application 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 reaches 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 needed. 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 by 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 elect 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 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;
- 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
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:

- 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 credit for 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

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>ENGLISH COMPOSITION</td>
</tr>
<tr>
<td>3</td>
<td>English Composition</td>
</tr>
<tr>
<td>3</td>
<td>English Composition</td>
</tr>
</tbody>
</table>

All students must complete 6 credits in English composition, one course from each group listed below.

**Group one:**

- English Composition 1001 or 1004 (for international students only)
- English Composition 2000 or 2004 (for international students only)

**Group two:**

- English Composition 1005 (for international students only)
- English Composition 2000 or 2004 (for international students only)
- English Composition 2005 (for international students only)
- English Composition 2006 (for international students only)

**II. ANALYTICAL REASONING**

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
- 2201 Introduction to Statistical Analysis
- 2202 Introduction to Contemporary Mathematics
- 1021 College Algebra
- 1022 Plane Trigonometry
- 1023 College Algebra and Trigonometry
- 1029 Introduction to Contemporary Mathematics
- 1100 The Nature of Mathematics
- 1431 Calculus with Business and Economic Applications
- 1441 Calculus with Application to Technology
### General Education Requirements

- **Classical Studies**
  - 3020 Classical Epic in Translation
  - 3032 Greek and Roman Tragedy in English Translation
  - 3040 Greek and Roman Comedy in English Translation
  - 3090 Comparative Mythology (See also REL 3090)

- **Communication Studies**
  - 1061 Fundamentals of Communication
  - 2040 Introduction to Performing Literature
  - 2060 Public Speaking

- **Comparative Literature**
  - 2201 Introduction to World Literary Traditions (see also ENGL 2201)
  - 2202 Introduction to Modern World Literature (see also ENGL 2202)

- **English**
  - 2024 (2824) Critical Strategies
  - 2025 Fiction
  - 2027 Poetry
  - 2029 Drama
  - 2123 (2823) Studies in Literary Traditions and Themes
  - 2148 Shakespeare
  - 2201 Introduction to World Literary Traditions (see also CPLT 2201)
  - 2202 Introduction to Modern World Literature (see also CPLT 2202)
  - 2220 Major British Authors
  - 2270 Major American Authors
  - 2300 Interpreting Discourse
  - 2593 Images of Women: An Introduction
  - 2675 Literature and Ethnicity
  - 2674 Introduction to African American Literature

- **French**
  - 1002 Elementary French
  - 1202 Elementary Cajun French
  - 2101 (2103) Intermediate French
  - 2102 (2104) Intermediate French
  - 2155 Readings in German Literature
  - 2201 Intermediate Cajun French I
  - 2202 Intermediate Cajun French II
  - 2801 French Classics in Translation
  - 3071 Survey of French Literature
  - 3072 Survey of French Literature
  - 3080 French Culture and Civilization

- **German**
  - 1102 Elementary German
  - 2075 German Civilization (see also HIST 2075)
  - 2101 Intermediate German
  - 2102 Intermediate German
  - 2155 Readings in German Literature
  - 3081 Survey of German Literature and Culture: Beginning to 1700
  - 3082 Survey of German Literature and Culture: 1700-1830
  - 3083 Survey of German Literature, 1830-1890
  - 3084 Survey of German Literature, 1890-Present

- **Hebrew**
  - 1002 Beginning Hebrew
  - 2003 Intermediate Hebrew
  - 2004 Intermediate Hebrew

- **History**
  - 1001 (1002) Western Civilization to 1500
  - 1003 (1004) Western Civilization Since 1500
  - 1005 World History to 1500
  - 1007 World History Since 1500
  - 2001 The Ancient Near East and Greece
  - 2002 Rome: Republic and Empire
  - 2012 Britain from 1689 to the Present
  - 2020 Medieval Europe
  - 2021 Modern Europe
  - 2022 Modern Europe
  - 2055 (2056) The United States to 1865
  - 2057 (2058) The United States from 1865 to the Present
  - 2061 African-American History
  - 2075 German Civilization (see also GERM 2075)
  - 2085 Colonial Latin America
  - 2086 Latin America Since Independence
  - 2096 East Asian Civilization Since 1800
  - 2135 Introduction to Russian Culture and Civilization (see also RUSS 2135)

- **Honors**
  - 2001 Seminar in African Western Civilization
  - 2003 Lectures in African Western Civilization
  - 2000 Critical Analysis
  - 2002 Seminar in Roman and Medieval Civilization
  - 2004 Lectures in Roman and Medieval Civilization
  - 2012 The 19th Century
  - 2013 The 20th Century
  - 3001 European Civilization from 1400 to 1789: The Old Regime
  - 3003 Western Civilization from 1789: Modern World
  - 3030 Humanities Colloquium
  - 3031 American Studies

- **Italian**
  - 1002 Elementary Italian
  - 2101 Intermediate Italian
  - 2102 Intermediate Italian
  - 2155 Readings in Italian Literature
  - 3001 Italian Culture and Civilization
  - 3071 Survey of Italian Literature
  - 3072 Survey of Italian Literature

- **Japanese**
  - 1002 Beginning Japanese
  - 2001 Intermediate Japanese
  - 2002 Intermediate Japanese

- **Landscape Architecture**
  - 1201 Introduction to Landscape Architecture

- **Music**
  - 1751(1755) Music Appreciation
  - 1799 Rudiments of Music
  - 2000 History of Jazz
  - 2053 Survey of Music History I
  - 2054 Survey of Music History II

- **Philosophy**
  - 1000 (1001) Introduction to Philosophy
  - 2020 Ethics
  - 2023 Philosophy of Art
  - 2024 Philosophy in Literature
General Education Requirements

V. NATURAL SCIENCES

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 (*).

Sequence Courses

Astronomy
1101 The Solar System

1102 Stellar Astronomy

Biological Sciences
*1001 General Biology

1002 General Biology

*1201 Biology for Science Majors I

*1202 (1503) Biology for Science Majors II

Chemistry
1001 Chemical Fundamentals

1002 Chemistry of Life and the Environment

1201 (1421) General Chemistry

1202 (1422) General Chemistry

Geography
2050 Physical Geography: The Atmosphere

2051 Physical Geography: Land and Water Surfaces, Plant and Animal Realms

Geology
1001 (1002) General Geology: Physical

1003 (1004) General Geology: Historical

Honors
*1007 Introduction to Life Sciences

*1008 Introduction to Life Sciences

Physical Science
1001 Physical Science

1002 Physical Science

Physics
1201 General Physics for Physics Majors

1202 General Physics for Physics Majors

2001 General Physics

2002 General Physics

2101 General Physics for Technical Students

2102 General Physics for Technical Students

Laboratories and Other Individual Science Courses

Agriculture
*1005 Science and Society

Agronomy
*1001 Introduction to Managed Plant Systems in the Modern World

Biological Sciences
*1011 Microorganisms and Man

Environmetal Sciences
*1206 Introduction to Environmental Sciences

Geology
1066 Dinosaurs, Catastrophes, and Extinctions

1601 Physical Geology Laboratory

1602 Historical Geology Laboratory

Honors
*1035 Life Science Seminar

1036 Physical Science Seminar

Human Ecology
*2010 Nutrition in Health

Medical Physics
2051 Radiation Science for Medical Applications

Oceanography and Coastal Sciences
1005 (1006) Introduction to Oceanography

Physics
2401 Introduction to Concepts in Physics

Renewable Natural Resources
*1001 Natural Resource Conservation

VI. SOCIAL SCIENCES

All students must take at least three hours of social sciences at the 2000-level or above.

African & African American Studies
2000 Introduction to African & African American Studies

Agricultural Economics
2003 Introduction to Agricultural Economics

Anthropology
1001 Introduction to Physical Anthropology and Prehistory

1003 Introduction to Cultural and Social Anthropology

2015 Introduction to Archaeology

2050 World Archaeology

2051 Introduction to World Ethnography

2423 Introduction to Folklore

Communication Disorders
2050 Introduction to Language

Communication Studies
2010 Interpersonal Communication

Curriculum and Instruction
2001 Education, Schooling, and Society

2500 Knowing & Learning in Mathematics and Science

Economics

2010 (2011) Principles of Macroeconomics

2030 (2031) Economic Principles

English
2423 Introduction to Folklore

Geography
1001 Human Geography: Americas and Europe

1003 Human Geography: Africa and Asia

Honors
1003 Lectures in Ancient Western Civilization

2000 Critical Analysis

2004 Lectures in Roman and Medieval Civilization

2012 The 19th Century

2013 The 20th Century

3001 European Civilization from 1400-1789: The Old Regime

3003 Western Civilization from 1789: The Modern World

3031 American Studies

3033 Social Science Colloquium

International Studies
2000 Contemporary Global Issues

Mass Communication

2025 The Business of Entertainment Media
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

Sociology

Women's & Gender Studies
2900 Gender, Race & Nation.................... 3
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

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

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 • 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.sss.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 cardiology (respiratory therapy), medical technology, opthalmic 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 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 website 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.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. 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.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. 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 Chemistry ................................ 6
- Analytical Reasoning** ............................ 6
- General Psychology ............................... 3
- General Education Art* ......................... 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 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.lsuhsc.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.lsuhsc.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 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 eligibility 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.
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

<table>
<thead>
<tr>
<th>Departments/Schools</th>
<th>Curricula</th>
<th>Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Agricultural Economics &amp; Agribusiness</td>
<td>Agricultural Business</td>
<td></td>
</tr>
<tr>
<td>Department of Biological &amp; Agricultural Engineering</td>
<td>(see College of Engineering)</td>
<td></td>
</tr>
<tr>
<td>Department of Entomology</td>
<td>Plant and Soil Systems¹</td>
<td></td>
</tr>
<tr>
<td>Department of Experimental Statistics</td>
<td>(see “Graduate School/Professional Programs” section of this catalog)</td>
<td></td>
</tr>
<tr>
<td>Department of Food Science</td>
<td>Food Science and Technology</td>
<td></td>
</tr>
<tr>
<td>Department of Plant Pathology &amp; Crop Physiology</td>
<td>Plant and Soil Systems¹</td>
<td></td>
</tr>
<tr>
<td>School of Animal Sciences</td>
<td>Animal, Dairy, and Poultry Sciences</td>
<td>Bachelor of Science</td>
</tr>
<tr>
<td>School of Human Ecology</td>
<td>Child and Family Studies</td>
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<tr>
<td></td>
<td>Nutritional Sciences</td>
<td></td>
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<tr>
<td></td>
<td>Textiles, Apparel, and Merchandising</td>
<td></td>
</tr>
<tr>
<td>School of Human Resource Education &amp; Workforce Development</td>
<td>Agricultural Education</td>
<td></td>
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<tr>
<td></td>
<td>Business Education</td>
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<td></td>
<td>Family and Consumer Science Education</td>
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<tr>
<td></td>
<td>Human Resource Education</td>
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<tr>
<td></td>
<td>Marketing Education</td>
<td></td>
</tr>
<tr>
<td>School of Plant, Environmental &amp; Soil Sciences</td>
<td>Environmental Management Systems</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plant and Soil Systems¹</td>
<td>Bachelor of Science in Forestry</td>
</tr>
<tr>
<td>School of Renewable Natural Resources</td>
<td>Forestry (Forest Management)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Natural Resource Ecology and Management</td>
<td>Bachelor of Science</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CORE COURSE</th>
<th>HOURS OF CREDIT</th>
<th>LSU COURSE EQUIVALENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture (Animal)</td>
<td>3</td>
<td>Animal Science 1011 or Dairy Science 1048 or Poultry Science 1049</td>
</tr>
<tr>
<td>Agriculture (Plant)</td>
<td>3</td>
<td>Horticulture 2050 or Agronomy 1051 or 2051</td>
</tr>
<tr>
<td>Agriculture (Electives)</td>
<td>2</td>
<td>Any 1000- or 2000-level agricultural course</td>
</tr>
<tr>
<td>Art</td>
<td>3</td>
<td>See gen. ed. requirements in this catalog.</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>8</td>
<td>Biological Sciences 1201,1202, 1208, 1209, 1402</td>
</tr>
<tr>
<td>Chemistry</td>
<td>8</td>
<td>Chemistry 1201, 1202, 1212</td>
</tr>
<tr>
<td>Communication</td>
<td>3</td>
<td>Communication Studies 2060</td>
</tr>
<tr>
<td>Computer Science</td>
<td>3</td>
<td>Experimental Statistics 2000</td>
</tr>
<tr>
<td>Economics</td>
<td>3</td>
<td>Economics 2030</td>
</tr>
<tr>
<td>English Composition</td>
<td>6</td>
<td>English 1001, 2000*</td>
</tr>
<tr>
<td>English Literature</td>
<td>3</td>
<td>English 3020 or 3022 or 2025 or 2027 or 3070 or 2148</td>
</tr>
<tr>
<td>History</td>
<td>3</td>
<td>History 1001 or 1003 or 2001 or 2002 or 2011 or 2012 or 2021 or 2022 or 2055 or 2057</td>
</tr>
<tr>
<td>Humanities Electives</td>
<td>3</td>
<td>See gen. ed. requirements in this catalog.</td>
</tr>
<tr>
<td>Mathematics</td>
<td>6</td>
<td>Mathematics 1021, 1022 or 1431</td>
</tr>
<tr>
<td>Social Sciences Electives</td>
<td>3</td>
<td>See gen. ed. requirements in this catalog.</td>
</tr>
<tr>
<td>TOTAL HOURS</td>
<td>60</td>
<td></td>
</tr>
</tbody>
</table>

* A grade of C* or higher is required in ENGL 1001 and MATH 1021 to receive a degree in Agriculture from LSU.
READEMISSION 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 in which 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:

- AGEC 1003, 3213, 3413, 4403; and EXST 2201
- at least six credit hours of approved electives chosen from AGEC 2003, 3003, 3803, 4203, 4213, 4413, 4433, 4435, 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, 4200, 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:

- AGEC 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 3 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. Students in the College of Human Resource Education and Workforce Development.

To graduate with a minor in leadership development, students must complete HRE 2001, 3018, and 3019. In addition, students must complete one of the two areas of study options listed below:
- Community Nutrition—HUEC 2000, 2110, and 3012

Nutritional Sciences

To graduate with a minor in nutritional sciences, students must complete 18 hours including HUEC 2000, 2110, and 3012. In addition, students must choose one of the two areas of study options listed below:
- Community Nutrition—HUEC 2000, 2110, and other 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 2000, 2041, 2045, 3032, and nine additional hours chosen from a list of approved courses by the departmental faculty in the School of Human Resource Education and Workforce Development.

Vocational Education

To graduate with a minor in vocational education, students must complete 18 sem. hours: HRE 2001, 3005, 3062, 3201, 4031; 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:
- Required courses—RNR 2101, 2031, 2039
- Area courses—one course selected from the following: RNR 2102, 3004, 4101, 4103, 4107 or 4900
- Plant Taxonomy—one course selected from the following: RNR 2001, 4020, BIOL 4041 or 4045
- Animal Taxonomy—one course selected from the following: RNR 3018, 4145 or BIOL 4141, 4142, 4146.
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
TELEPHONE • 225-578-3282
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 .......................... 3
Economics 2030 and Agricultural Economics 2003 or Economics 2010 and 2010 ................................. 6
Economics 2035 ............................................. 3
Experimental Statistics 2201 or Information Systems and Decision Sciences 2001 ................................. 3–4
General education humanities course .................. 3–6
College of Agriculture elective .......................... 3
Elective or ROTC ............................................. 4–0
—
31

JUNIOR YEAR SEM. HRS.
Accounting 2000 or 2001, 2101 ................................ 6
Agricultural Economics 3003, 3213, 3413, 3503 or 4613 ................................. 12
Business Law 3200 ........................................ 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 AGEC 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 4530; 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
TELEPHONE • 225-578-3153
FAX • 225-578-3492
E-MAIL • thomasd@lsu.edu
WEB SITE • www.bae.lsu.edu

CURRICULUM:

• Biological Engineering

(See the “College of Engineering” section of this catalog.)

DEPARTMENT OF ENTOLOGY

OFFICE • 404 Life Sciences Building
TELEPHONE • 225-578-1634
FAX • 225-578-2257

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, turfgrass 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
Department of Food Science and Technology

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.

Curriculum:

Food Science & Technology

Food science has been ranked as one of the most enjoyable careers available to college graduates. Food science 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 students while concentrating on specific 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 science 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, and vegetable products, snacks and convenience foods, or nutritional and medical foods to oversee production practices, maintain quality 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.

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Curriculum:

Food Science & Technology
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 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**

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<thead>
<tr>
<th>Course Code</th>
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<tr>
<td>Biological Sciences 1201, 1208, 1202, and 1209</td>
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<tr>
<td>Chemistry 1201, 1202, 1212</td>
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<td>English 1001</td>
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<td>Mathematics 1022 and 1441</td>
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**SOPHOMORE YEAR**

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<td>Biological Sciences 2051</td>
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<tr>
<td>Biological Sciences 2083 or 4087*</td>
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<tr>
<td>Chemistry 2060 or 2261*</td>
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<tr>
<td>Communication Studies 2060</td>
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**ECONOMICS 2030**  3
**ENGLISH 2000**  3
**FOOD SCIENCE 2000**  3
**HUMAN ECQNOLOGY 2010**  3
**PHYSICS 2001**  3
**Area requirements**  3-2

**JUNIOR YEAR**

<table>
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<td>Food Science 3999</td>
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<tr>
<td>General education humanities courses</td>
<td>6</td>
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<tr>
<td>General education social sciences course</td>
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<td>Area requirements</td>
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<tr>
<td>Electives</td>
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**SENIOR YEAR**

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<th>Course Code</th>
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<tr>
<td>Food Science 4005, 4040, 4070, 4076, 4095</td>
<td>16</td>
<td></td>
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<tr>
<td>Food Science 3999</td>
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<tr>
<td>General education humanities courses</td>
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<td>General education social sciences course</td>
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<td>Area requirements</td>
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<tr>
<td>Electives</td>
<td>4-0</td>
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</tbody>
</table>

**Areas of Concentration**

- **Food Business and Marketing**

**Required Courses** (18 hrs.)—choose from either (1) ACCT 2001; ECON 2035; FIN 3715; ISDS 1100; MGT 3213, 3413, 4403; or (2) ACCT 2001; ECON 2035; FIN 3715; ISDS 1100; MGT 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, turfgrass 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 regulation 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
CURRICULUM:
• Animal, Dairy, and Poultry Sciences (Animal Science Area, Dairy Production Area, Dairy Foods Technology Area, Poultry Science Area, Science and Technology Area, and Pre-veterinary 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 1202, 1209, 2051, 2083; CHEM 2261, 2262, 2264 or CHEM 2260; 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.

If 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.
**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 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).

**Preventive 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 if residence in another school begins 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 • humaneology@lsu.edu

**CURRICULUM:**

- 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 entrée 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**

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<tr>
<th>SEM. HRS.</th>
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</table>

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>COURSES</th>
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</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>COURSES</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Sciences 1201</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 1201, 1202</td>
<td>6</td>
</tr>
<tr>
<td>English 1001</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1431 or 1550</td>
<td>3-5</td>
</tr>
<tr>
<td>General education humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Area of concentration courses</td>
<td>5-7</td>
</tr>
<tr>
<td>Electives</td>
<td>5-1</td>
</tr>
<tr>
<td><strong>TOTAL SEM. HRS.</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication studies 2060 or 2010</td>
<td>3</td>
</tr>
<tr>
<td>Experimental Statistics 2201</td>
<td>4</td>
</tr>
<tr>
<td>Human Ecology 2110, 2019</td>
<td>6</td>
</tr>
<tr>
<td>General education social science course</td>
<td>3</td>
</tr>
<tr>
<td>Area of concentration requirements</td>
<td>13-12</td>
</tr>
<tr>
<td>Electives</td>
<td>0-1</td>
</tr>
<tr>
<td><strong>TOTAL SEM. HRS.</strong></td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human Ecology 3010, 3012, 3116</td>
<td>9</td>
</tr>
<tr>
<td>General education social science course</td>
<td>3</td>
</tr>
<tr>
<td>Three hours chosen from 2000-level and above</td>
<td>3</td>
</tr>
<tr>
<td>general education English courses or HNRS</td>
<td>14-12</td>
</tr>
<tr>
<td>2002, 2004, 3001, 3003</td>
<td></td>
</tr>
<tr>
<td>Area of concentration courses</td>
<td>2-4</td>
</tr>
<tr>
<td>Electives</td>
<td>31</td>
</tr>
<tr>
<td><strong>TOTAL SEM. HRS.</strong></td>
<td><strong>31</strong></td>
</tr>
</tbody>
</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human Ecology 4010, 4011, 4013, 4014, 4017, 4101, 4110</td>
<td>17</td>
</tr>
<tr>
<td>Area of concentration requirements</td>
<td>3</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>31</td>
</tr>
<tr>
<td><strong>TOTAL SEM. HRS.</strong></td>
<td><strong>31</strong></td>
</tr>
</tbody>
</table>

**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

**CURIKULUM 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Biological Sciences 1200</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 1201, 1202</td>
<td>6</td>
</tr>
<tr>
<td>English 1001</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1431 or 1550</td>
<td>3-5</td>
</tr>
<tr>
<td>General education humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Area of concentration courses</td>
<td>5-7</td>
</tr>
<tr>
<td>Electives</td>
<td>5-1</td>
</tr>
<tr>
<td><strong>TOTAL SEM. HRS.</strong></td>
<td><strong>34</strong></td>
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**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Accounting 2000 or 2001</td>
<td>3</td>
</tr>
<tr>
<td>Economics 2030</td>
<td>3</td>
</tr>
<tr>
<td>English 2000</td>
<td>3</td>
</tr>
<tr>
<td>Human Ecology 2040, 2041</td>
<td>4</td>
</tr>
<tr>
<td>Human Ecology 2045</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Area of concentration courses</td>
<td>10</td>
</tr>
<tr>
<td>Electives</td>
<td>29</td>
</tr>
<tr>
<td><strong>TOTAL SEM. HRS.</strong></td>
<td><strong>31</strong></td>
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**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Communication Studies 2060</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Area of concentration courses</td>
<td>12</td>
</tr>
<tr>
<td>Human Ecology 3032, 3045</td>
<td>6</td>
</tr>
<tr>
<td><strong>TOTAL SEM. HRS.</strong></td>
<td><strong>31</strong></td>
</tr>
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**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Management 3200</td>
<td>3</td>
</tr>
<tr>
<td>Marketing 3401</td>
<td>3</td>
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<tr>
<td><strong>TOTAL SEM. HRS.</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

**Areas of Concentration**

- Apparel Design (25 hrs.)

**Required Courses—HUEC 2037, 3037, 3230, 3252, 4037, 4045, 4047 or 4070**

- Merchandising (24 hrs.)

**Required Courses—HUEC 3042, 3043, 4046, 4070; MGT 3320 or PSYC 3050; MC 2525 or MKT 4433; 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.

**CURIKULUM IN EARLY CHILDHOOD EDUCATION: PK-3 TEACHER CERTIFICATION**

**TOTAL SEM. HRS. • 125-127**

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Sciences 1001</td>
<td>3</td>
</tr>
<tr>
<td>English 1001</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1021</td>
<td>3</td>
</tr>
<tr>
<td>Human Ecology 1000</td>
<td>3</td>
</tr>
<tr>
<td>General education social sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Area of concentration courses</td>
<td>13-12</td>
</tr>
<tr>
<td>Electives</td>
<td>31</td>
</tr>
<tr>
<td><strong>TOTAL SEM. HRS.</strong></td>
<td><strong>31</strong></td>
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**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Accounting 2000 or 2001</td>
<td>3</td>
</tr>
<tr>
<td>Economics 2030</td>
<td>3</td>
</tr>
<tr>
<td>English 2000</td>
<td>3</td>
</tr>
<tr>
<td>Geography 1001</td>
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<tr>
<td>Geology 1001</td>
<td>3</td>
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<tr>
<td>Human Ecology 1000</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1021 or 1023 or 1029</td>
<td>3-4</td>
</tr>
<tr>
<td>General education humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Area of concentration courses</td>
<td>10</td>
</tr>
<tr>
<td>Electives</td>
<td>29</td>
</tr>
<tr>
<td><strong>TOTAL SEM. HRS.</strong></td>
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**JUNIOR YEAR**

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Communication Studies 2060</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Area of concentration courses</td>
<td>12</td>
</tr>
<tr>
<td>Human Ecology 3032, 3045</td>
<td>6</td>
</tr>
<tr>
<td><strong>TOTAL SEM. HRS.</strong></td>
<td><strong>33-35</strong></td>
</tr>
</tbody>
</table>
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.

Student Teaching 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

The Public Management Program (PMP) serves as the research-to-practice affiliate for the Human Resource Education (HRE) and Workforce Development of 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; human resource development; 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. This 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 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 or EXST 2201 or SOCL 2201 and elective.............. 10

33

Junior Year SEM. HRS.
HRE 3201 or 3271 ................................................................. 3
Economics 2030 ................................................................. 3
General education humanities course ................................................................. 3
HRE 4601 or 4603 or any general education humanities course .......................... 3
Technical core courses ................................................................ 18
Electives .................................................................. 3

33

Senior Year SEM. HRS.
General education social sciences course (SOCL 2001 or ANTH 1003 or ANTH 2051 or INTL 2000) ................................................................. 3
General education humanities communication studies course or CMST 2010 or 2060 ................................................................. 3
HRE 4800 or 4025 ................................................................. 3
HRE 4301 ................................................................ 3
Technical core courses ........................................... 12
HRE 4804 ................................................................. 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:

- Mathematics 2050, 2060, 2061, 2064: 12 hours which must include three hours from economics, three hours from management, and six hours from psychology, chosen from ECON 2035, 4020, 4120, 4220, 4230; MGT 3200, 3320, 3500, 3422, 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; HUIC 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 hours 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 2.2 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 I 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, AGR 2011 (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

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 2020 and 2078 ................................................................. 6
Human Resource Education 3101 ............................................. 3
Kinesiology 2601 ................................................................. 1
Technical core courses ................................................................. 12

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 ............................................. 3
Human Resource Education 3604 ..................................................... 3
Human Resource Education 4201 ............................................. 3
Curriculum & Instruction 3136 and 4800 ..................................................... 6
Technical core courses ................................................................. 11

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

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

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

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 ............................................. 3
Human Resource Education 3604 ..................................................... 3
Human Resource Education 4201 ............................................. 3
Curriculum & Instruction 3136 and 4800 ..................................................... 6
Technical core courses ................................................................. 11

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

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 4601 ..................................................... 1
Human Resource Education 4602 ..................................................... 1
Human Resource Education 4705 ..................................................... 1
Human Resource Education 4806 ..................................................... 9
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

SOPHOMORE YEAR SEM. HRS.

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>History 2055 or 2057</td>
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<tr>
<td>Experimental Statistics 2000 or Computer</td>
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<td>Science 1100 &amp; Human Resource Education</td>
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<tr>
<td>Human Resource Education 3101</td>
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<tr>
<td>Kinesiology 2601</td>
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- Technical core courses .......................... 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 .................. 3

Human Resource Education 3604 .................. 3

Human Resource Education 3605 .................. 3

Human Resource Education 4201 .................. 3

Curriculum & Instruction 3136 and 4800 ..... 6

- Technical core courses .......................... 33

SENIOR YEAR SEM. HRS.

Human Resource Education 4200 .................. 3

Human Resource Education 4301 .................. 3

Human Resource Education 4601 .................. 3

- Technical core courses .......................... 34

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 4311; 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.

SCHOOL OF PLANT, ENVIRONMENTAL & SOIL SCIENCES

OFFICE • 104 M. B. Sturgis Hall
TELEPHONE • 225-578-2110
FAX • 225-578-1403
E-MAIL • dlabonte@agcenter.lsu.edu

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 ........... –

27

SOPHOMORE YEAR SEM. HRS.

Agronomy 2051 .................................. 4
Agricultural Economics 2003 or Economics 2030.................................. 3
Biological sciences 1202, 1209 .................. 4
Chemistry 2060 or 2261¹ ........................ 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

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; ENVIS 4101; ENVIS 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 educations, wholesale production of horticulture plants, retail managers and owners, arborists, 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

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<th>Course</th>
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<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
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<tr>
<td>English 1001</td>
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<td>General education social sciences course</td>
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<tr>
<td>General education humanities course</td>
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34-35

SOPHOMORE YEAR

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<td>Communication Studies 2060</td>
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34

JUNIOR YEAR

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<td>Biological Sciences/Plant Health 3060 or Horticulture 2860</td>
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<td>Plant Health 4000</td>
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30

SENIOR YEAR

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<tr>
<td>Agronomy 4052 or Entomology 4001 or Area of concentration courses</td>
<td>4-3</td>
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<td>Area of concentration courses</td>
<td>10-9</td>
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<td>Electives or ROTC</td>
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</tbody>
</table>

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 (32 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, 3013, 3015, 4090; Agronomy 4070

SCHOOL OF RENEWABLE NATURAL RESOURCES

OFFICE  •  227 Renewable Natural Resources Building
TELEPHONE  •  225-578-4131
FAX  •  225-578-4227
E-MAIL  •  druther@lsu.edu
WEB SITE  •  www.rnr.lsu.edu

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 specialities, 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 that focus on aquatic ecosystems or private industries 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, 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, and fisheries management.

The preveterinary-wildlife area of concentration is designed to prepare students for careers in veterinary medicine and wildlife management, focusing 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 the 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 registration. Fees for transportation during the fall and spring semesters are paid through the student billing system. Field fees vary in amount, based on the cost of transportation, and are paid at the time of registration. Fees for transportation during the fall and spring semesters are paid through the student billing system.

CURRICULUM IN FORESTRY
(FOREST MANAGEMENT)

Total: 128 semester hours

**FRESHMAN YEAR**

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**SOPHOMORE YEAR**

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<td>Renewable Natural Resources 2001 and 2101</td>
<td>5</td>
</tr>
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<td>Renewable Natural Resources 2039</td>
<td>3</td>
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<td>General education social sciences</td>
<td>3</td>
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<tr>
<td>Renewable Natural Resources 2003</td>
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**JUNIOR YEAR**

<table>
<thead>
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<th>Course</th>
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<td>Renewable Natural Resources 2102, 3002, 4900, and 3103</td>
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<tr>
<td>Area of concentration courses</td>
<td>5-10</td>
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<td>Area of concentration electives</td>
<td>11-5</td>
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<td>Electives</td>
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**SENIOR YEAR**

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<tr>
<td>Renewable Natural Resources 4101</td>
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<tr>
<td>Area of concentration electives</td>
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</tr>
<tr>
<td>Electives</td>
<td>12-6</td>
</tr>
<tr>
<td>Electives</td>
<td>5-4</td>
</tr>
</tbody>
</table>

*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
- Forest Resources Management

**REQUISITE COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Agriculture 1001</td>
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<tr>
<td>Biological Sciences 1201 and 1202</td>
<td>6</td>
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<tr>
<td>Biological Sciences 1208 and 1209 or Chemistry 1212</td>
<td>2</td>
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<tr>
<td>Chemistry 1201 and 1202</td>
<td>6</td>
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<tr>
<td>English 1001</td>
<td>3</td>
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<tr>
<td>Mathematics 1021</td>
<td>3</td>
</tr>
<tr>
<td>Renewable Natural Resources 1001 and 1002</td>
<td>3</td>
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</tbody>
</table>
General education arts course.......................... 3
Free electives ........................................... 4

SOPHOMORE YEAR SEM. HRS.
Communication Studies 2060 .......................... 3
Chemistry 20601 or 22611 or
Physics 2001 ........................................... 3
Economics 2030 or AGEC 2003 ...................... 3
English 2000 ............................................ 3
Experimental Statistics 2201 .......................... 4
Mathematics 1022 or 4311 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

JUNIOR YEAR SEM. HRS.
Renewable Natural Resources 4103 ................. 3
Renewable Natural Resources 3002 ................. 3
Renewable Natural Resources 2001 or
4020 or Biological Sciences 40411 ............... 2-4
General education humanities course .............. 3
Agronomy 20511 or Renewable Natural
Resources 4025 or 4151 ............................... 3-4
Renewable Natural Resources 2102 ............... 3
Area of concentration courses ...................... 8-6
Free electives ........................................... 7

SENIOR YEAR SEM. HRS.
Renewable Natural Resources 4101, 4900
and 4025 or 4040 ....................................... 10
Area of concentration courses ........................ 15-20
Approved electives .................................. 5-0
Free electives ........................................... 2

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/or 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 areas of
concentration must take RNR 4025.

Areas of Concentration

**Fisheries and Aquaculture**

**Required Courses** (24-26 hrs.)—BIOL 2051;
RNR 2031, 3018, and 4011; select two
courses from the following—BIOL 4141, 4142, 4146, 4145; RNR 4037, 4145; select one
course from RNR 4020 or BIOL 4041

**Natural Resource Conservation**

**Required Courses** (20-23 hrs.)—Select one
course (3-4 hrs.) from the following: RNR
2002, 2031, or EMS 3040; Select two courses
(6-8 hrs.) from the following: RNR 4011, 4022, 4023, 4033, 4036, 4038, 4040, or
AGRO 4078; Select two courses (8 hrs.) from
the following: RNR 3018, 4145, BIOL 4041, 4052, 4141, 4142, 4146, or ENTM 4005;
Select one course (3 hrs.) from the following:
AGEC 3503, 3803, 4603, EMS 3050, ECON
4070, 4320, POLI 4011 or 4015.

**Wetland Science**

**Required Courses** (21-22 hrs.)—OCS 4165,
RNR 3108, 4020, 4033
Select I course (3 hrs.)—OCS 4164, 4308,
4465, or 4560
Select I pair of courses (6-7 hrs.)—either
RNR 2031 and 4011; or RNR 2002 and 4023;
or RNR 2002 and RNR 4040

**Wildlife Ecology**

**Required Courses** (24 hrs.)—RNR 2031,
3005, 4011; ENGL 3002; ENTM 4015; select
two courses (8 hrs.)—BIOL 4141, 4142, 4146,
RNR 3018, 4145

**Wildlife Law Enforcement**

**Required courses** (23 hrs.)—RNR 2031, 3018,
4011; POLI 2051; select two courses (6 hrs.)from the following—
SOCIL 3371, 3501, 4461, or 4471; select one
course (3 hrs.) from the following—POLI
4015, 4020, 4021, 4022, or 4023

**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).
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 distinct 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 requirements 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.
• 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, 1008, 1009, 1010; ARTH 1440 or 1441; and two of the following courses: ART 1361, 1371, 1551, 1661, 1761, 1848, 1849, 2050, 2655, and 2995.

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 75 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 TΣΔ 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 professional graduate degree and a professional graduate degree, which when earned sequentially, comprise an accredited professional education. However, the professional 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' engineering 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.
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 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 intended concentration, listed below. Students who pass the portfolio review may pursue their concentration and any studio art minor listed in the LSU Catalog.

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 1761, 1762, 1848, 1849, 2050, 2655, and/or 2995

Required for the printmaking concentration.

Required for the graphic design concentration.

Required for both the ceramics and sculpture concentrations.

Required for the painting and drawing concentration.

Required for the photography concentration.

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, 2050, 2655, and/or 2995................. 24-21
Area of concentration course............................................. 0-3
English 1001 ................................................................. 3
General education analytical reasoning course (from mathematics) ................. 3

<table>
<thead>
<tr>
<th>COURSE</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>ART 1011, 1012, 1360, 1661, 1762, 1847, 1848, 2050, 2655, 2995</td>
<td>24-21</td>
</tr>
<tr>
<td>English 1001</td>
<td>3</td>
</tr>
<tr>
<td>General education analytical reasoning course (from mathematics)</td>
<td>3</td>
</tr>
</tbody>
</table>

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, 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.
### 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, 1511, 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

**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
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 semester.

**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 scholarly 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 a 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 upon entering the spring semester of first-year design.

**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**

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<thead>
<tr>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Freshman English 1440, 1441</td>
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<tr>
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<td>Interior Design 3752, 3753</td>
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<td>Interior Design 4754, 4755</td>
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<td>Interior Design 4752, 4756</td>
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<td>3782, or 3786</td>
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<td>General education humanities course</td>
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<td>General education social sciences course</td>
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**Senior Year**

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<thead>
<tr>
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<td>Architecture 3005, 3006</td>
<td>Architecture 3005, 3006</td>
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<tr>
<td>English 2000</td>
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<tr>
<td>Interior Design 2730, 2731</td>
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<td>Interior Design 2770, 2771</td>
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<td>Interior Design 2774, 2775, 2785</td>
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<td>General education English humanities course</td>
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**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.

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 102
- 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. Transfers 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.

**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.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
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<td>English 1001</td>
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<td>Mathematics 1021, 1022</td>
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<td>Geography 2050, 2051</td>
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<tr>
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<th>SOPHOMORE YEAR</th>
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<tr>
<td>Architecture 3006</td>
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<td>English 2000</td>
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<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
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<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<tr>
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<tr>
<th>FIFTH YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Landscape Architecture 5001, 5002, 5201, 5301</td>
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<tr>
<td>Natural systems elective</td>
<td>3</td>
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<tr>
<td>Approved electives</td>
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<tr>
<td>Total</td>
<td>30</td>
</tr>
</tbody>
</table>
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 full 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

<table>
<thead>
<tr>
<th>Departments/Schools</th>
<th>Curricula</th>
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<tr>
<td>Department of Communication Sciences &amp; Disorders</td>
<td>Communication Disorders</td>
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<tr>
<td>Department of Communication Studies</td>
<td>Communication Studies</td>
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<tr>
<td>Department of English</td>
<td>English</td>
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<tr>
<td>Department of Foreign Languages &amp; Literatures</td>
<td>German</td>
<td>Bachelor of Arts</td>
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<tr>
<td>Department of Foreign Languages &amp; Literatures</td>
<td>Latin</td>
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<tr>
<td>Department of Foreign Languages &amp; Literatures</td>
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<td>Department of French Studies</td>
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<td>Department of Geography &amp; Anthropology</td>
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<td>Department of Political Science</td>
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<tr>
<td>Department of Military Science</td>
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*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 skills may 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 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 approved 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, 4200, 578 (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), 3111, 3224, 3452, 3900, 3902; POLI 4038, 4039, 4078 (Non-US); SOCL 2721, 4511; WGS 2900


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 ART 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, 4600; HNRS 1101, 1103; INTL 4002/ANTH 4002/EGEO 4002/REL 4001; INTL 4100

- **Social Sciences**—EGEO 1003, 4035; HIST 2095, 2096, 3117, 4050, 4091, 4092, 4093, 4094, 4097, 4098; POLI 4067, 4079; SW/EGEO 4000


Other courses acceptable for general credit in Asian Studies, subject to the approval of the Asian Studies faculty, include ÉCON 4520; HIST 4195; REL 3300.

For additional information, contact Dr. Gail Hinich Sutherland, 122 Coates Hall, 225-578-2221, gsutherland@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: ARR: 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, ENVYS 4010, ENVYS 4101 or CHEM 4150, ENVYS 4149, ENVYS 4262, ENVYS 4264, ENVYS 4477, GEOG 4013, GEOG 4015 or 4017, GEOG 4018, GEOG 4021, GEOG 4045, GEOG 4047, GEOG 4048, HUEC 4064, INTL 3001, LA 2402, 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 2099, 2331, 4009, 4231; FREN 4031; GERM 4046; HIST 4077; MC 2700; MUS 4747; PHIIL 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—one 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
- 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 workshops, job search handbooks, 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 in the United States, Puerto Rico, and the Philippines 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 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.
For information on this department's program, see the "Reserve Officers Training Corps" section of this catalog.

Committee of Undergraduate Advisors for a waiver of the 2.50 requirement based on special circumstances.

Consult "Degree Requirements of the College" in this portion 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 2100 ......................................... 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 • 225-578-4712
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 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.
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 consult 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

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<th>SEM. HRS.</th>
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<tr>
<td>English 1001 or 1004</td>
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<tr>
<td>Foreign language courses</td>
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<tr>
<td>Communication studies 1150 and 2060</td>
</tr>
<tr>
<td>General education analytical reasoning course (from mathematics department)</td>
</tr>
<tr>
<td>General education natural science course sequence</td>
</tr>
<tr>
<td>Labs corresponding to science sequence</td>
</tr>
<tr>
<td>Library and Information Science 1001</td>
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<td>29-31</td>
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#### SOPHOMORE YEAR

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<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>English 2000</td>
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<tr>
<td>Foreign language</td>
</tr>
<tr>
<td>General education analytical reasoning course</td>
</tr>
<tr>
<td>General education natural science course*</td>
</tr>
<tr>
<td>Communication studies 2040 and either 2010 or 2064</td>
</tr>
<tr>
<td>Electives</td>
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<td>29-27</td>
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#### JUNIOR YEAR

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<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Approved departmental electives</td>
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<tr>
<td>General education humanities courses</td>
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<tr>
<td>General education social science course</td>
</tr>
<tr>
<td>General education social science course (2000 level or above)</td>
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<tr>
<td>Electives</td>
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<td>32</td>
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#### SENIOR YEAR

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<tr>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Approved departmental electives</td>
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<tr>
<td>General education arts course</td>
</tr>
<tr>
<td>General education humanities course</td>
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<tr>
<td>Electives</td>
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<td>30</td>
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</tbody>
</table>

**COMPARATIVE LITERATURE**

**OFFICE • 416 Hodges Hall**

**TELEPHONE • 225-578-6631**

**FAX • 225-578-6628**

**WEB SITE • artscl.lsu.edu/complit**

**E-MAIL • complit@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.**

**Approved economics electives**

- **ECON 4540, 4630, 4632.**
- **CPLT 7140**
- **Total**

**Approved electives**

- **History of Economic Thought—ECON 4541, 4542, 4543**
- **Modern Economic Theory—ECON 4630**
- **ECON 7020**
- **Thanksgiving Bay Program**

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<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>English 1001</td>
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<tr>
<td>Foreign language courses</td>
</tr>
<tr>
<td>Mathematics 1021</td>
</tr>
<tr>
<td>General education life or physical sciences (two semesters lecture sequence with corresponding labs)</td>
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<tr>
<td>Approved history elective</td>
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<td>31-33</td>
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#### SOPHOMORE YEAR

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<tr>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Economics 2035</td>
</tr>
<tr>
<td>English 2000</td>
</tr>
<tr>
<td>Mathematics 1431</td>
</tr>
<tr>
<td>General education life or physical sciences (one semester lecture in alternate science)**</td>
</tr>
<tr>
<td>Approved history elective</td>
</tr>
<tr>
<td>Approved literature courses</td>
</tr>
<tr>
<td>Experimental statistics 2201</td>
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<td>33-31</td>
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#### JUNIOR YEAR

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<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Economics 4710, 4720</td>
</tr>
<tr>
<td>Approved economics electives</td>
</tr>
<tr>
<td>General education humanities course</td>
</tr>
<tr>
<td>Approved foreign language course</td>
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<td>32</td>
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#### SENIOR YEAR

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<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Approved economics electives</td>
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<tr>
<td>General education humanities course</td>
</tr>
<tr>
<td>Approved social sciences courses (6 hrs. in two fields other than history or economics)</td>
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<tr>
<td>Approved electives</td>
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<tr>
<td>32</td>
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**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, 3310, 3310; 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. Graduates 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

Area of concentration requirements........................................ 3
English 1001 ................................................................. 3
General education humanities course ........................................ 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

Area of concentration requirements........................................ 9
English 2000 ........................................................................... 3
General education social sciences courses (3 hrs. at 2000 level or above) ............ 6
Approved electives (may be in area of concentration or ROTC) .................. 6

29-27

JUNIOR YEAR

Area of concentration requirements ........................................ 12
General education analytical reasoning course ........................................ 3
General education social sciences courses ........................................... 6
Approved electives (may be in area of concentration).............................. 11

32-33

SENIOR YEAR

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; six 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; nine hours from ENGL 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 2712; nine hours from ENGL 3020, 3022, 3070; three hours from ENGL 3015 or 3301; three hours from 3024, 3084, 3384; six hours from 3021, 3022, 4203, 4204; six additional hours of English courses at 4000-level; LING 4710 or 4711; EDID 3223; EDID 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, 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 4904

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 credit for 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. 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 proficiency 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, 2165, 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 3001, 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

English 1001 ................................................................. 3
German 1101, 1102......................................................... 8
General education analytical reasoning course (from mathematics dept) ............... 3
General education natural science course sequence* ........................................ 3
Approved electives or ROTC ............................................. 6

30

SOPHOMORE YEAR

English 2000 ........................................................................... 3
German 2101, 2102................................................................. 6
General education analytical reasoning course ................................................. 3
General education natural science course sequence* ........................................ 3
Approved electives or ROTC ................................................. 12

30

JUNIOR YEAR

German 2155, 3061................................................................. 6
General education analytical reasoning course ................................................. 3
General education natural science course sequence* ........................................ 3
Approved German electives ......................................................... 6
Approved electives ................................................................. 9

30
### DEPARTMENT OF FRENCH STUDIES

OFFICE • 416B Hodges Hall
TELEPHONE • 225-578-6627
FAX • 225-578-6628
WEB SITE • wwwartssci.lsu.edu/fai
E-MAIL • Ilsufren@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 electives, and foreign language requirements. Consult "General Education" section of the catalog for the general education requirements.

<table>
<thead>
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<th>Semester</th>
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<td>Approved electives or ROTC</td>
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<td>English 2000</td>
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<td>Latin 2053 and one 2000-level Latin course</td>
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#### Area of Concentration

**Secondary Education**

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<td>EDCH 2001, 3001, 3136, 4003, 4004, 4005</td>
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<tr>
<td>SPAN 3001, 3002, 4003, 4004, 4602, 4603</td>
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</tbody>
</table>

### 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.

**One of the general education humanities course must be from history.

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<tr>
<th>Semester</th>
<th>Hours</th>
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<td>English 1001</td>
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<td>Spanish 1101, 1102</td>
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<td>JUNIOR YEAR</td>
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<td>Spanish 2155, 2156, 3010, 3020</td>
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#### Secondary Education

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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.

<table>
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<th>Semester</th>
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<td>English 1001</td>
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</table>
Approved electives and/or area requirements .................................... 11

1 Students selecting the area of concentration in International Business must complete MATH 1021. Other students may complete MATH 1021 or 1029.

2 If sequence is taken in life sciences, then alternate science should be in the physical sciences category and vice versa.

3 Students selecting the area of concentration in International Business must complete MATH 1431.

4 Students 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, 4080, 4097, 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, 4051, 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 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.
- At least a 2.00 gpa in all minors.
**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.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1001</td>
<td>3</td>
</tr>
<tr>
<td>Foreign language courses</td>
<td>8-10</td>
</tr>
<tr>
<td>Geography 1001, 1003</td>
<td>6</td>
</tr>
<tr>
<td>General education analytical reasoning course (from the mathematics department)</td>
<td>3</td>
</tr>
<tr>
<td>General education natural science sequence</td>
<td>6</td>
</tr>
<tr>
<td>General education humanities course (other than foreign language)</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>29-31</strong></td>
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<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>English 2000</td>
<td>3</td>
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<tr>
<td>Foreign language courses</td>
<td>8-6</td>
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<tr>
<td>Geography 2050, 2051, 2055</td>
<td>9</td>
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<td>Geography 2010</td>
<td>3</td>
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<tr>
<td>General education natural science course</td>
<td>3</td>
</tr>
<tr>
<td>General education analytical reasoning course</td>
<td>3</td>
</tr>
<tr>
<td>Approved elective or ROTC</td>
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</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>32-30</strong></td>
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<tr>
<th>JUNIOR YEAR</th>
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<tbody>
<tr>
<td>Geography 2039, 4019, 4020, 4041, 4044, 4045, 4047 (select one)</td>
<td>6</td>
</tr>
<tr>
<td>General education arts course</td>
<td>6</td>
</tr>
<tr>
<td>Anthropology 4051, Geography 3001, 4000, 4002, 4031, 4053, 4050, 4052, 4055 or other approved regional course (select one)</td>
<td>3</td>
</tr>
<tr>
<td>Upper-division geography elective</td>
<td>3</td>
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<tr>
<td>General education humanities course (other than foreign language)</td>
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</tr>
<tr>
<td>Approved electives</td>
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<td><strong>TOTAL</strong></td>
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<table>
<thead>
<tr>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Geography 4012, 4060, 4073, 4077, 4078, 4080, 4087, 4090 or other approved systematic geography course (select two)</td>
<td>6</td>
</tr>
<tr>
<td>General education humanities course (other than foreign language)</td>
<td>3</td>
</tr>
<tr>
<td>General education social sciences courses (three hours must be 2000-level or above)</td>
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<tr>
<td>Approved electives</td>
<td>15</td>
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<td><strong>TOTAL</strong></td>
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</table>

**If sequence is taken in life sciences, then alternate sequence should be in the physical sciences category and vice versa.**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>English 1001</td>
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<tr>
<td>Foreign language courses</td>
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<td>Geography 1001</td>
<td>3</td>
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<tr>
<td>Mathematics 1021</td>
<td>3</td>
</tr>
<tr>
<td>General education natural science sequence</td>
<td>6</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>29-31</strong></td>
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<table>
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<tr>
<td>English 2000</td>
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<tr>
<td>Foreign language courses</td>
<td>8-6</td>
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<tr>
<td>Geography 2050, 2051, 2055</td>
<td>9</td>
</tr>
<tr>
<td>Mathematics 1022, 1550</td>
<td>8</td>
</tr>
<tr>
<td>Computer Science 1253 or 1250</td>
<td>3</td>
</tr>
<tr>
<td>General education natural science course**</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>34-32</strong></td>
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<thead>
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<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Geography 2019, 4019, 4020, 4041, 4044, 4045, 4047 (select three or four)**</td>
<td>9-12</td>
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<tr>
<td>Experimental Statistics 2201</td>
<td>4</td>
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<tr>
<td>General education arts course</td>
<td>3</td>
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<tr>
<td>General education humanities course (other than foreign language)</td>
<td>3</td>
</tr>
<tr>
<td>Science elective (3000+ level other than Geography)</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>28-31</strong></td>
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<table>
<thead>
<tr>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geography 4013, 4014, 4015, 4016, 4017, 4018, 4021, 4022, 4024, 4028, 4029, 4070, 4082, 4083, 4085 (select three or four)**</td>
<td>12-9</td>
</tr>
<tr>
<td>General education social science courses (other than Geography, 3 hours must be 2000-level or above)</td>
<td>6</td>
</tr>
<tr>
<td>General education humanities course (other than foreign language)</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>8</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>29-26</strong></td>
</tr>
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</table>

**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 students participating in numerous field trips.
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 2520, 3004, 3015, 4003, 4004, 4015, 4016, 4023, 4053, 4055, 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, 4099, 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 electives............. 3
General education biology or biological sciences (6 sem. hrs. lecture with 2 sem. hrs. of lab)................. 8

31-33

SOPHOMORE YEAR SEM. HRS.
English 2000 .................................. 3
Foreign language courses ................. 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

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 either History 2055 or 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 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

SOPHOMORE YEAR SEM. HRS.
Foreign language courses ................. 8-6
History 2055, 2057 .......................... 6
EDCI 3001, 3002 .......................... 6
Area requirements .......................... 6

29-31

JUNIOR YEAR SEM. HRS.
Approved history electives ................ 12
EDCI 3001, 3002 .......................... 6
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,
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 in 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 year. Students must complete all five of the prerequisites for their concentration, 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 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: 1) global concentration; 2) regional concentration; and 3) 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 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, 4560; ENV 4100; FIN 3718; INTL 4100; MC 4103, POLI 4041, 4042, 4045, 4064; REL 4031, 3000, 4032; REL/INTL 3092; SOCL 3010, 4111, 4341, 4421, 4481, 4521, 4551, 4613, 4620, 4651, 4652.

- Global Diplomacy—Six hrs. chosen from two different departments: ECON 4520, 4550, 4560; HIST 4023, 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 4456, 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 3017, 3052; SPAN 4144, 4145, 4146, 4147

2) Global Concentrations (6 hrs.):

- Latin America—Six hrs. chosen from two different departments: ANTH 4002, 4032; ECON 4031; HIST 4081, 4083, 4089; POLI 4065; SPAN 3044, 3074, 4082, 4146, 4147; THTR 4220

- Russia and Central Asia—RUSS 2002 and 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. Leonid 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 science should be in the physical sciences category and vice versa.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>ENGLISH 1001 .............................................</th>
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<tr>
<td></td>
<td>Foreign language courses ..................................</td>
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<tr>
<td></td>
<td>International Studies core courses (selected from among ANTH 1003 or 2051, ECON 2030 or 2031, GEOG 1001 or 1003, HIST 1007, and POLI 2057)</td>
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<tr>
<td></td>
<td>General education analytical reasoning ..................</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>General education life or physical science courses (two semesters lecture sequence)*</td>
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<th>SEM. HRS.</th>
<th>ENGLISH 2000 .............................................</th>
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<td>International Studies core courses .................</td>
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</tr>
<tr>
<td></td>
<td>Foreign language courses (third and fourth semesters)</td>
<td>8-6</td>
</tr>
<tr>
<td></td>
<td>General education analytical reasoning ..............</td>
<td>3</td>
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</table>
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; SOCI 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, 3201, 3801, 3802, 4200; ECON 4530; GEOG 4000, 4035; HIST 2095, 2096, 2097, 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/ANTH/GEOG 3994; ITAL 3001, 3072; PHIL 3001, 3003, 3090, 4003, 4939; POLI 4072, 4074, 4075, 4076; SPAN 3073, 4063, 4064, 4081, 4089; language component: FREN, GERMAN, 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, 4240; 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 3992; SOCI 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, 3900, 4064, 4100, 4145, 4146, 4147, 4201, 4400;
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 .................. 3
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 ................. 3
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, 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, 4032, 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 15th Century Art: ARTH 2499, 4413, 4423, 4424, 4425, 4427, 4429, 4433

15th through 21st Century: ARTH 2470, 4422, 4450, 4451, 4464, 4465, 4466, 4469, 4470, 4480, 4482, 4484

Non-Western Art: ARTH 4441, 4442, 4443, 4446, 4447

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, 4475, 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 4046, 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 4204 or 4170

Practicum/Research (Limit 6 hours in this category): DSM 4000, DSM 4990, 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 • mhugar1@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:

COMM/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/LING 4064, ANTH 4082, ANTH 4997**, ENGL 3310, 3716, ENGL/LING 4310, ENGL/LING 4719, 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 4032**

Language and Applied Linguistics: Applications of linguistics to the teaching of first/second languages and interpretation/translation studies. EDLC 4470, 4472, ENGL 3120, 3720, FREN 2057, 4014, 4015, 4065, RUSS/LING 4600, SPAN 4005, 4602, 4603

College of Arts and Sciences 125
**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 • pisir@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 language 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 1000 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

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<tr>
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<td>English 1001 or 1004</td>
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<td>3</td>
<td>General education natural science course***</td>
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<tr>
<td>3</td>
<td>General education analytical reasoning course (from Mathematics Department)</td>
</tr>
<tr>
<td>3</td>
<td>Philosophy elective</td>
</tr>
<tr>
<td>3</td>
<td>Approved elective</td>
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<td>32-30</td>
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#### SOPHOMORE YEAR

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<td>Foreign language courses*</td>
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<td>6</td>
<td>Philosophy 2010 and 2020 (or 3052)</td>
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<tr>
<td>6</td>
<td>Philosophy 2033 (or 2053) and Philosophy 2035</td>
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<td>General education humanities course</td>
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<tr>
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<td>32-30</td>
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#### JUNIOR YEAR

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<tr>
<td>3</td>
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<tr>
<td>3</td>
<td>General education social science course</td>
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<tr>
<td>3</td>
<td>General education social science course (2000 level or above)</td>
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<tr>
<td>6</td>
<td>Philosophy electives</td>
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<td>15</td>
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#### SENIOR YEAR

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<tr>
<td>23</td>
<td>Approved electives</td>
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#### 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
- Nonwestern Religions
- Theoretical Studies

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

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<tr>
<td>8-10</td>
<td>General education natural science course sequence**</td>
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<td>General education analytical reasoning course (from Mathematics Department)</td>
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<tr>
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<td>Religious Studies 2027 (2031) or 2029 (2030)</td>
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#### SOPHOMORE YEAR

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JUNIOR YEAR

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<td>Religious Studies electives</td>
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SOPHOMORE YEAR

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<td>General education humanities course*</td>
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<td>General education social sciences course</td>
<td>3</td>
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<td>6</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>6</td>
<td>Approved electives</td>
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SENIOR YEAR

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<td>Approved electives</td>
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</tbody>
</table>

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 2000 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 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 department 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 major 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 science course must be from the life sciences, and vice versa.

FRESHMAN YEAR

<table>
<thead>
<tr>
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<th>SEM. HRS.</th>
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<td>General education humanities course**</td>
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<tr>
<td>Political Science 1001 (recommended, but not required)</td>
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<td>General education natural science sequence</td>
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SOPHOMORE YEAR

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<tr>
<td>General education social sciences course</td>
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<tr>
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JUNIOR YEAR

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SENIOR YEAR

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<tr>
<td>Approved electives</td>
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</table>

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: 10 hours; two courses from core areas listed below—six hours; two courses from core areas or additional electives listed below—six hours.

- **Basis** (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 4076 or 4176
  - e. Applied/Social: PSYC 3050 or 3140 or 3083 or 4050 or 4080
  - f. Additional Electives: PSYC 2400, 3030, 3081, 3082, 4038, 4039, 4040
  - g. Excluded Electives: PSYC 2094, 2060, 2070, 2076, 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 approved 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

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>SEM. HRS.</th>
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<tr>
<td>English 100</td>
<td>3</td>
<td>General education natural science course**</td>
<td>3</td>
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<td>Foreign language courses</td>
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</tr>
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<td>General education humanities course</td>
<td>3</td>
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</tr>
<tr>
<td>General education analytical reasoning course</td>
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<tr>
<td>General education humanities course*</td>
<td>3</td>
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</tr>
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<td>General education social sciences course</td>
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SOPHOMORE YEAR

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</tr>
<tr>
<td>General education natural science course**</td>
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<tr>
<td>General education analytical reasoning course</td>
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<tr>
<td>General education humanities course**</td>
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JUNIOR YEAR

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<tbody>
<tr>
<td>General education social sciences course</td>
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<td>General education humanities course*</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities course**</td>
<td>6</td>
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SENIOR YEAR

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<tbody>
<tr>
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<td>General education humanities course**</td>
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<td>Approved electives</td>
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<td>Approved electives</td>
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</table>

College of Arts and Sciences
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

SENIOR YEAR SEM. HRS.
Approved psychology electives ........................ 12
Approved electives .................................. 19

*If sequence is taken in biological sciences, then alternative science should be in the physical sciences category and vice versa.

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 science, humanities, and social sciences requirements. A certain course may satisfy general education, college, and/or departmental requirements.

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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 science, humanities, and social sciences requirements. A certain course may satisfy general education, college, and/or departmental requirements.

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) AGEC 2003 and either AGEC 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

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 work places 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
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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)* ................................  6
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
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30

SENIOR YEAR SEM. HRS.
Women's & Gender Studies 4500....................  3
WGS-approved humanities and social sciences electives........................................  9
Approved electives ........................................  17
---
29
COLLEGE OF
Basic Sciences

KEVIN R. CARMAN,
Dean

GARY R. BYERLY, Richard F. and Betty S.
Fenton Alumni Professor
Associate Dean for Student Services

RICHARD L. KURTZ
Associate Dean for Finance and Administration

MARTHA A. CEDOTAL
Senior Assistant Dean for Student Services

SARA MARCHIAFAVA
Senior Assistant Dean for Finance and Administration

KARLA G. LEMOINE
Assistant to the Dean

ROBBY S. BOWEN
Counselor

ALLIE PREST
Counselor

JAMI CATES
Advisor

336 Hatcher Hall
225-578-4200
FAX 225-578-8826
WEB SITE • http://science.lsu.edu

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 predental 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

<table>
<thead>
<tr>
<th>Departments</th>
<th>Curricula</th>
<th>Degrees</th>
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<tbody>
<tr>
<td>Biological Sciences</td>
<td>Biochemistry</td>
<td>Bachelor of Science</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Microbiology</td>
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<tr>
<td>Computer Science</td>
<td>Computer Science</td>
<td>Bachelor of Science in Geology</td>
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<td>Geology &amp; Geophysics</td>
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</tr>
<tr>
<td>Mathematics</td>
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<td>Bachelor of Science</td>
</tr>
<tr>
<td>Physics &amp; Astronomy</td>
<td>Physics</td>
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</tbody>
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**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 science 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 mediates 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/premedical/predental.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 50 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 and 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/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 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. The 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
TELEPHONE • 225-578-2601
FAX • 225-578-2607
WEB SITE • www.biology.lsu.edu

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, 1209 .......... 8
Chemistry 1201, 1202, 1212 ..................... 8
English 1001 ........................................ 3
Mathematics 1550, 1552 .......................... 9
General education arts course ................... 3

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

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

Senior Year

SEM. HRS.
Biological Sciences 4385 ......................... 9
Approved biochemistry electives .......... 6
General education social sciences course
(sophomore level or above) ................. 3
Social science/humanities courses ........ 6
Approved electives ............................. 9

Curriculum in Biological Sciences

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

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
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
SENIOR YEAR ................................................ SEM HRS.
Approved biological sciences electives 11-14 ......... 6
Social sciences/humanities courses ....................... 6
Approved electives .......................................... 13-10
29

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, 4115, 4128, 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, 4123, 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 4066 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, 1002 ........................................... 3
Mathematics 1550, 1552 or EXST 2201 .......................... 9
General education arts course .................................. 3
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
JUNIOR YEAR .................................................. SEM. HRS.
Biological Sciences 3116, 4110 .................................. 9
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 science course (sophomore level or above) ........................................... 3
Approved electives .......................................... 3-0
SENIOR YEAR .................................................. SEM. HRS.
Biological Sciences 4246, 4125 or 4256 ......................... 6-7
Biological Sciences 4087 or 4093 and 4094 ................. 4-6
Social science/humanities courses ............................. 6
General education social science course .......... 4
Approved electives .......................................... 8-5
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, 4145, 4146, 4154, 4162, 4200, 4256, 4400.

DEPARTMENT OF CHEMISTRY

CHAIR • Maverick
OFFICE • 232 Choppin Hall
TELEPHONE • 225-578-3361
FAX • 225-578-3458
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.
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.

Recommended courses: BASC 2010, 2111; EDCI 2500, 3550, 4500, 3136, 4006; PHIL 2786; CHEM 4003, 4005; BIOL 2083; 3 hrs. of CHEM electives.

Chemistry electives: CHEM 4010, 4111, 4150, 4151, 4552, 4553, 4561, 4562, 4563, 4571, 4572, 4581, 4594, 4597

Areas of Concentration

**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

**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, 4165, ENVS 4500, 4477, GEOE 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

**Pre-professional Chemistry (21 hrs.)**

American Chemical Society electives: CHEM 4581, 4594, 4596, 4597

Physics electives: PHYS 2221, 2231, 2411, 4123, 4125, 4141, 4142, 4251, 4261

**Polymer (23 hrs.)**

Students completing this concentration will receive American Chemical Society certification.

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.)**

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

OFFICE • 298 Coates Hall
TELEPHONE • 225-578-1495
FAX • 225-578-1465
WEB SITE • www.csc.lsu.edu

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 |

1. See college list of approved general education natural sciences courses.
2. If a 10-hour foreign language sequence is taken, the extra two hours will be counted toward approved electives.
3. Students who have completed the prerequisites may substitute MATH 3355 or EE 3140 or EXST 4050.
4. The computer science senior elective (three semester hours) must be an approved 4000-level computer science course.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science 1200, 1350, 1351</td>
<td>7</td>
</tr>
<tr>
<td>English 1001</td>
<td>3</td>
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<tr>
<td>Three hrs. chosen from 2000-level or above English or Honors courses from the general education humanities list</td>
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<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Computer Science 2259, 3102, 3380</td>
<td>9</td>
</tr>
<tr>
<td>Computer science elective 2000-level or above or computer science area requirement</td>
<td>3</td>
</tr>
<tr>
<td>Three hrs. chosen from 2000-level or above English or Honors courses from the general education humanities list</td>
<td>3</td>
</tr>
<tr>
<td>English 2000</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 2000</td>
<td>4</td>
</tr>
<tr>
<td>General education biological or physical sciences sequence with lab</td>
<td>8</td>
</tr>
<tr>
<td>General education social sciences course</td>
<td>3</td>
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<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science 2262, 3501, 4101</td>
<td>9</td>
</tr>
<tr>
<td>Computer science elective 3000-level or above or computer science area requirement</td>
<td>3</td>
</tr>
<tr>
<td>Foreign language courses</td>
<td>8</td>
</tr>
<tr>
<td>Industrial Engineering 3302</td>
<td>3</td>
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<tr>
<td>General education social sciences course at the sophomore level or above</td>
<td>3</td>
</tr>
<tr>
<td>Approved elective or area requirements</td>
<td>6</td>
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<tr>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<td>Computer science elective or computer science area requirement</td>
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</tr>
<tr>
<td>Approved electives or area requirements</td>
<td>12</td>
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<tr>
<td>General education arts courses</td>
<td>5</td>
</tr>
<tr>
<td>Social sciences/humanities course</td>
<td>3</td>
</tr>
</tbody>
</table>

### Areas of Concentration

1. **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 12 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.

2. **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

3. **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, 4390; 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

- **OFFICE** • E235 Howe-Russell Geoscience Complex
- **TELEPHONE** • 225-578-3353
- **FAX** • 225-578-2302
- **WEB SITE** • www.geol.lsu.edu
- **E-MAIL** • geology@lsu.edu

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 concentration 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.
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

OFFICE • 301 Lockett Hall
TELEPHONE • 225-578-1665
FAX • 225-578-4276
WEB SITE • www.math.lsu.edu
E-MAIL • department@math.lsu.edu

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), 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 courses numbered below 1550 (except MATH 1550) ........ 3
- Select two courses from Mathematics 2020, 2025, and 2030............. 6
Mathematics 2057, 2060, 2085 ...................................... 7
General education natural science course sequence with lab(s).................. 8
- 28-30

SOPHOMORE YEAR • SEM. HRS.

English 2000 ......................................................... 3
Social science or humanities course ........................................ 3
- Select two courses from Social Science 1000, 1001, 1002, and 1003......... 6
Mathematics 1551/1553, and 1552/1553 .................................. 9
General education natural science course sequence ......................... 8
- 28-30

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 as follows: MATH 1665, 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 courses numbered below 1550 (except MATH 1550) ........ 3
- Select two courses from Mathematics 2020, 2025, and 2030............. 6
Mathematics 2057, 2060, 2085 ...................................... 7
General education natural science course sequence with lab(s).................. 8
- 28-30

SOPHOMORE YEAR • SEM. HRS.

English 2000 ......................................................... 3
Social science or humanities course ........................................ 3
- Select two courses from Social Science 1000, 1001, 1002, and 1003......... 6
Mathematics 1551/1553, and 1552/1553 .................................. 9
General education natural science course sequence ......................... 8
- 28-30

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 as follows: MATH 1665, 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 courses numbered below 1550 (except MATH 1550) ........ 3
- Select two courses from Mathematics 2020, 2025, and 2030............. 6
Mathematics 2057, 2060, 2085 ...................................... 7
General education natural science course sequence with lab(s).................. 8
- 28-30

SOPHOMORE YEAR • SEM. HRS.

English 2000 ......................................................... 3
Social science or humanities course ........................................ 3
- Select two courses from Social Science 1000, 1001, 1002, and 1003......... 6
Mathematics 1551/1553, and 1552/1553 .................................. 9
General education natural science course sequence ......................... 8
- 28-30

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 as follows: MATH 1665, 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.
DEPARTMENT OF PHYSICS & ASTRONOMY

OFFICE • 202 Nicholson Hall
TELEPHONE • 225-578-2261
FAX • 225-578-5855
WEB SITE • www.phys.lsu.edu

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.

FRESHERM 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
Approved electives or area requirements.................. 31

SOPHOMORE YEAR SEM. HRS.

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 or 1002 or 1201 and 1202............... 6
Computer science programming course.... 3
General education humanities course.............. 3
Approved electives or area requirements............. 4

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........ 34

SENIOR YEAR SEM. HRS.

Physics 4125...................................................... 3
General education social sciences/humanities course................ 3
Approved electives or area requirements........ 26

Areas of Concentration

- Astronomy (28 hrs.)
- Medical Physics (34 hrs.)
- Physics (28 hrs.)

Required Courses (28 hrs.) • ASTR 1101, 1102, 4221, 4222, 4261; MATH 2090; PHYS 4123, 4135, 4141
- Physics (28 hrs.)

Required Courses (28 hrs.) • CHEM 1201, 1202, 1212, 2060; MATH 2090; BIOL 2160; MEDP 2051, 4111, 4331, 4332, 4351; KIN 2500.

- Physics (28 hrs.)

Required Courses (28 hrs.) • CHEM 1201, 1202, 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 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/CHM/PHYS 4005 (42 hrs.)

Select three hrs. from MATH 4200, 4023, 4181. Select three hrs. from MATH 4024, 4027, 4032, 4036, 4039, 4056, 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).
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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

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<tr>
<th>Departments</th>
<th>Curricula</th>
<th>Degree</th>
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<tbody>
<tr>
<td>Accounting</td>
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<td>Bachelor of Science</td>
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<td>Economics</td>
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<td>International Trade &amp; Finance</td>
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<td>Information Systems &amp; Decision Sciences</td>
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<td>William W. &amp; Catherine M. Rucks Department of Management</td>
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<td>Marketing</td>
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<tr>
<td>Interdepartmental Program</td>
<td>General Business Administration</td>
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- Complete the Pre-Business Core classes (Economics 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 3.0 at the end of any academic semester.
  - The student's business gpa falls below a 3.0 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 who are not removed from college probation after one probationary semester will have a college hold placed on their registration which will require them to schedule an appointment with a college academic advisor.

**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 college 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 credit from other colleges and 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.

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. 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 75 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:

**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 to 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.”

**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

**DEPARTMENTAL REQUIREMENTS AND ELECTIVES**

<table>
<thead>
<tr>
<th>Department</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
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</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>1</td>
<td>2</td>
<td>3</td>
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<tr>
<td>Economics</td>
<td>1</td>
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<td>3</td>
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<tr>
<td>Marketing</td>
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<td>Information Systems</td>
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**FRESHMAN YEAR**

**SEM. HRS.**

<table>
<thead>
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<th>Course</th>
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<tr>
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<tr>
<td>Mathematics 1021, 1431</td>
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<tr>
<td>ISDS 1101, 1102</td>
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</tr>
<tr>
<td>General education natural sciences sequence</td>
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<tr>
<td>Accounting 2001, 2002</td>
<td>1</td>
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<tr>
<td>Approved communication studies</td>
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<td>Elective I (choose from CMST 2060, 2061, and 2064)</td>
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**General education humanities course** | 3 |

**JAMES C. & CHERIE H. FLORES DEPARTMENTAL REQUIREMENTS AND ELECTIVES**

<table>
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<tr>
<th>Department</th>
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**FRESHMAN YEAR**

**SEM. HRS.**

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<td>Economics 2000</td>
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<tr>
<td>English 1001</td>
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<tr>
<td>Mathematics 1021, 1431</td>
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<tr>
<td>ISDS 1101, 1102</td>
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<tr>
<td>General education natural sciences sequence</td>
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<tr>
<td>Accounting 2001, 2002</td>
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<tr>
<td>Approved communication studies</td>
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<td>Elective I (choose from CMST 2060, 2061, and 2064)</td>
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**General education humanities course** | 3 |
SOPHOMORE YEAR

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<tr>
<th>SEM. HRS.</th>
<th>ACCOUNTING 2101 or 2120 or 3001 or 3002</th>
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<td>Accounts 2000 or 2002</td>
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<td>Approved communication studies</td>
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Economics 2010 or 2020, 2060, 2061, and 4113 | 6 |
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 |

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 |

JUNIOR YEAR

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>Accounting 3101 or 3002, 3021</th>
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<td>SEM. HRS.</td>
<td>ISDS 3115 or 3117</td>
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<td>SEM. HRS.</td>
<td>Accounting 4212</td>
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<td>SEM. HRS.</td>
<td>Business law 3201</td>
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<td>SEM. HRS.</td>
<td>Finance 4116</td>
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<td>SEM. HRS.</td>
<td>Management 3202</td>
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<td>SEM. HRS.</td>
<td>Marketing 3401 or 3402</td>
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<td>ISDS 4101 or 4102</td>
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<td>Business elective (3000/4000 level)</td>
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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 |

SENIOR YEAR

<table>
<thead>
<tr>
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<td>SEM. HRS.</td>
<td>Business elective (3000/4000 level)</td>
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</table>

DEPARTMENT OF ECONOMICS

OFFICE - 3101 Patrick F. Taylor Hall
TELEPHONE - 225-578-2251
FAX - 225-578-3843
WEB SITE - www.bus.lsu.edu/economics

CUMULATIVE 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 2055, be taken.

*See “Electives” under “Degree Requirements of the College.”

FRESHMAN YEAR

<table>
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<tr>
<th>SEM. HRS.</th>
<th>BADM 1000</th>
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<td>SEM. HRS.</td>
<td>Mathematics 1021, 1431</td>
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<td>ISDS 1101 or 1102</td>
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Elective 1 (choose from CMST 2060, 2061, and 2064) | 3 |
ISDS 1101 or 1102 | 3 |
General education arts course | 3 |

FRESHMAN YEAR

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<th>SEM. HRS.</th>
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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 |

JUNIOR YEAR

<table>
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<th>SEM. HRS.</th>
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<td>BLAW 3101</td>
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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 |

SENIOR YEAR

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SENIOR YEAR

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<td>Business electives (3000/4000 level)</td>
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Area of Concentration

* Empirical Economic Analysis

Required (9 hrs)—ECON 4540, 4630, 4632

CURRICULUM IN INTERNATIONAL TRADE AND FINANCE

TOTAL SEM. HRS. - 121

E. J. Ourso College of Business
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

Economics 2000 or 2001 3

Approved Economics electives 6

Approved General education humanities course 3

**TOTAL SEM. HRS. • 15**

**SOPHOMORE YEAR**

SEM. HRS.

Accounting 2101 or 2102 3

English 2000 3

Approved General education humanities course 3

Approved communication studies 3

Approved General education natural sciences sequence 6

General education humanities courses 3

**TOTAL SEM. HRS. • 30**

**JUNIOR YEAR**

SEM. HRS.

Business elective (3000/4000 level) 3

Elective* 3

**TOTAL SEM. HRS. • 6**

**SENIOR YEAR**

SEM. HRS.

Management 3830 or 3831 3

Elective* 3

Approved ISDS electives 6

**TOTAL SEM. HRS. • 30**

**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

Economics 2000 or 2001 3

Approved ISDS electives 6

Approved communication studies 3

General education humanities course 3

**TOTAL SEM. HRS. • 15**

**SOPHOMORE YEAR**

SEM. HRS.

Approved ISDS electives 6

Approved SUNY electives 3

General education humanities course 3

**TOTAL SEM. HRS. • 15**

**JUNIOR YEAR**

SEM. HRS.

Economics 2010 or 2011 3

Approved communication studies 3

Elective (choose from CMST 2060, 2061, and 2064) 3

General education humanities courses 3

Approved ISDS electives 3

**TOTAL SEM. HRS. • 30**

**SENIOR YEAR**

SEM. HRS.

Approved ISDS electives 6

**TOTAL SEM. HRS. • 30**

**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 of the College."

**FRESHMAN YEAR**

SEM. HRS.

Accounting 2001 or 2002 3

Economics 2000 or 2001 3

Approved Communication studies 3

Approved General education humanities course 3

**TOTAL SEM. HRS. • 15**

**SOPHOMORE YEAR**

SEM. HRS.

Approved Communication studies 3

Approved General education humanities course 3

**TOTAL SEM. HRS. • 15**

**JUNIOR YEAR**

SEM. HRS.

Approved Communication studies 3

Elective (choose from CMST 2060, 2061, and 2064) 3

General education humanities course 3

Approved General education humanities course 3

**TOTAL SEM. HRS. • 30**

**SENIOR YEAR**

SEM. HRS.

Approved Communication studies 3

**TOTAL SEM. HRS. • 30**

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.

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Note: Finance 3716 is the prerequisite to most upper level finance courses and should be scheduled in the junior year.
### Marketing elective (approved by dept)

**Marketing electives**
- EISDS 3115 or 3117
- Marketing 3401 or 3402, 3411
- Management 3200
- Finance 371
- Business Law 3201

### Junior Year

**General education natural sciences course**
**General education humanities course**
**General education arts course**
- ISDS 2000 or 2010, 2001 or 2011

**Approved communication studies**
- English 2000
- Economics 2010 or 2011, 2035 or 2036

### Sophomore Year

**General education humanities course**
**General education natural sciences sequence**
- Mathematics 1021, 1431
- ISDS 1101 or 1102
- English 1001
- Economics 2000 or 2001

**Approved communication studies**
- BADM 1000
- Accounting 2001 or 2002
- English 2000
- Approved communication studies

### Freshman Year

**FRESHMAN YEAR**
- Accounting 2001 or 2002
- BADM 1000
- Approved communication studies
- Economics 2000 or 2001
- English 1001
- ISDS 1101 or 1102
- Mathematics 1021, 1431
- General education natural sciences course
- General education humanities course

**TOTAL SEM. HRS.** 121

*See "Electives" under Degree Requirements of the College.*

### 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.
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 Remediate 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

<table>
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<tr>
<th>Department</th>
<th>Curricula</th>
<th>Degree</th>
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<td>Environmental Sciences</td>
<td>Coastal Environmental Science</td>
<td>Bachelor of Science in Coastal Environmental Science</td>
</tr>
<tr>
<td>Oceanography and Coastal Sciences</td>
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</tr>
</tbody>
</table>

**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/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. 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.

**DEPARTMENT OF ENVIRONMENTAL SCIENCES**

OFFICE • 1273 Energy, Cost & 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**

<table>
<thead>
<tr>
<th>TOTAL SEM. HRS.</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>FRESHMAN YEAR</td>
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<tr>
<td>Biological Sciences 1201, 1208, 1202.</td>
<td>8</td>
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<tr>
<td>Chemistry 1201, 1202, 1212.</td>
<td>8</td>
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<tr>
<td>Mathematics 1550.</td>
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<tr>
<td>Environmental Science 1126.</td>
<td>3</td>
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<tr>
<td>English 1001.</td>
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<tr>
<td>General education arts course.</td>
<td>3</td>
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<tr>
<td>SOPHOMORE YEAR</td>
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<tr>
<td>Chemistry 2261, 2262, 2364.</td>
<td>8</td>
</tr>
<tr>
<td>Mathematics 1552.</td>
<td>4</td>
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<tr>
<td>Experimental Statistics 2201 or Mathematics 2057.</td>
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<tr>
<td>English 2000.</td>
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<tr>
<td>Oceanography 2008, 2009.</td>
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<tr>
<td>General education social science course.</td>
<td>3</td>
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<tr>
<td>JUNIOR YEAR</td>
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<tr>
<td>Biological Science 2051 or 2153.</td>
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</tr>
<tr>
<td>Oceanography 3103.</td>
<td>3</td>
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<tr>
<td>Physics 2101, 2108, 2102, 2109.</td>
<td>8</td>
</tr>
<tr>
<td>Environmental Sciences 3102 or Mathematics 2065.</td>
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<tr>
<td>Environmental Sciences 3999 or Oceanography 4001.</td>
<td>2</td>
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<tr>
<td>Approved coastal environmental science electives.</td>
<td>4</td>
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<tr>
<td>Approved electives.</td>
<td>3</td>
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<tr>
<td>General education humanities course.</td>
<td>3</td>
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</tbody>
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Total: 120

WEB SITE: ENVIRONMENTAL SCIENCE CURRICULUM IN COASTAL ENVIRONMENTAL SCIENCE
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 programs 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, the Department of Biological Sciences, and the Department of Chemistry.

### 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 course ............................. 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/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 4465, OCS 4560, RNR 4023, EMS 3040, EMS 3050, EMS 4020.
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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

236 Peabody Hall
225-578-2331
FAX • 225-578-3613
WEB SITE • www.ednet.lsu.edu
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, PRAKIS 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:

- Successfully complete an approved program of study that is 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 Counseling.

**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 honor 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. 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.

In 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 EDCl 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 in 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.
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 grades 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

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Sciences 1001</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 1000</td>
<td>3</td>
</tr>
<tr>
<td>English 1001 or 1004</td>
<td>3</td>
</tr>
<tr>
<td>Geography 1001 or 1003</td>
<td>3</td>
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<tr>
<td>Geology 1001</td>
<td>3</td>
</tr>
<tr>
<td>Human Ecology 1000</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1021 or 1023 and 1100</td>
<td>6-8</td>
</tr>
<tr>
<td>Select 3 hrs. from ART 1001 or 1011 or ARTH 1440 or 2470 or Music 1751 or 1755 or 1799 or 2000</td>
<td>3</td>
</tr>
</tbody>
</table>

SECOND YEAR

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th></th>
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<tbody>
<tr>
<td>English 2003</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1022, 1023, 1101, 1102</td>
<td>6</td>
</tr>
<tr>
<td>Physical Education 1045, 1046, 1047, 1048</td>
<td>12</td>
</tr>
<tr>
<td>Select 6 hrs. from General Education electives</td>
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</table>

THIRD YEAR

<table>
<thead>
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<th>SEM. HRS.</th>
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<tr>
<td>English 2006</td>
<td>3</td>
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<tr>
<td>Mathematics 2021</td>
<td>3</td>
</tr>
<tr>
<td>Science 2004</td>
<td>3</td>
</tr>
<tr>
<td>Select 6 hrs. from General Education electives</td>
<td>6</td>
</tr>
</tbody>
</table>

FOURTH YEAR

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
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<tr>
<td>Social Science 2007</td>
<td>3</td>
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<tr>
<td>Physical Education 4000</td>
<td>3</td>
</tr>
<tr>
<td>Science 2005</td>
<td>3</td>
</tr>
<tr>
<td>Select 6 hrs. from General Education electives</td>
<td>6</td>
</tr>
</tbody>
</table>

FIFTH YEAR

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Education 5000</td>
<td>6</td>
</tr>
<tr>
<td>Education 5010</td>
<td>3</td>
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<tr>
<td>Education 5011</td>
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<tr>
<td>Education 5012</td>
<td>3</td>
</tr>
<tr>
<td>Science 5000</td>
<td>3</td>
</tr>
<tr>
<td>Science 5010</td>
<td>3</td>
</tr>
<tr>
<td>Select 6 hrs. from General Education electives</td>
<td>6</td>
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</table>

SIXTH YEAR

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Education 5020</td>
<td>6</td>
</tr>
<tr>
<td>Education 5021</td>
<td>3</td>
</tr>
<tr>
<td>Education 5022</td>
<td>3</td>
</tr>
<tr>
<td>Science 5020</td>
<td>3</td>
</tr>
<tr>
<td>Science 5021</td>
<td>3</td>
</tr>
<tr>
<td>Select 6 hrs. from General Education electives</td>
<td>6</td>
</tr>
</tbody>
</table>

APPENDIX A

THE UNIVERSITY OF LOUISIANA AT LAFAYETTE

COLLEGE OF EDUCATION • UNDERGRADUATE DEGREES

<table>
<thead>
<tr>
<th>Departments</th>
<th>Curricula</th>
<th>Degrees</th>
</tr>
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<tbody>
<tr>
<td>Department of Educational Theory, Policy, and Practice</td>
<td>Early Childhood Education: PK-3 Teacher Certification</td>
<td>Bachelor of Science</td>
</tr>
<tr>
<td></td>
<td>Elementary Grades Education</td>
<td></td>
</tr>
<tr>
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<td>Secondary Education</td>
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<td></td>
<td>Kinesiology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sport Administration</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Degrees</strong></th>
<th><strong>Curricula</strong></th>
<th><strong>Departments</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Science</td>
<td>Early Childhood Education: PK-3 Teacher Certification</td>
<td>Department of Educational Theory, Policy, and Practice</td>
</tr>
<tr>
<td></td>
<td>Elementary Grades Education</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Secondary Education</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kinesiology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sport Administration</td>
<td></td>
</tr>
</tbody>
</table>
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

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

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

34-37

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

Homes 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 ............................................ 3
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 4466 or 4272 or 4472** ................................. 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 3655*** ........................................... 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;
Students should apply for admission to the elementary education graduate year program 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 fifth-year cohorts.

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, 1022, and 1023;
- 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

<table>
<thead>
<tr>
<th>Total SEM. HRS.</th>
<th>Freshman Year</th>
<th>Sophomore Year</th>
<th>Junior Year</th>
<th>Senior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Sciences 1201, 1208, 1202, 1209</td>
<td>32-34</td>
<td>9</td>
<td>23-24</td>
<td>13-23</td>
</tr>
<tr>
<td>English 1000</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>9</td>
</tr>
<tr>
<td>Kinesiology 2500</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>9</td>
</tr>
<tr>
<td>Kinesiology activity course(s)</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education Certification</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Total SEM. HRS.</td>
<td>121-131</td>
<td>9</td>
<td>23-24</td>
<td>13-23</td>
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</tbody>
</table>

Aeros 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.

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 TO THE LSU GRADUATE SCHOOL

Completed materials for application to the LSU Graduate School must be submitted to the Office of Student Services on or before March 15. Students must take all required parts of PRAXIS II by March of the senior year for timely receipt of scores.

CURRICULUM IN KINESIOLOGY
• 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 LSU Student Health Center, Room Policies & Procedures Manual, and current policies in the 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.)—KIN 3525, 3534, 3535, 4512, 4538, 4606
Twelve hours from: KIN 3517, 3605, 3608, 3609, 4513, 4525, 4601, 4602, 4605; 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 (55 hrs.)

Required Courses (47 hrs.)—KIN 1803, 1804, 1600, 2512, 2540, 2501, 3510, 3516, 3518, 3609, 4512, 4575; PSYC 4070; EDCL 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, 1215, 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 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 humanities courses ............. 3

General education social sciences courses (3 hrs. Economics) ............ 6

General education natural science course ........ 3

Kinesiology 2510 .................................. 3

SOPHOMORE YEAR

SEM. HRS.

General education natural science courses ........................................ 6

Communication Studies 2000 .................................. 3

Kinesiology 2501, 2502, 2530 ......................... 9

Accounting 2000 .................................. 3

Area of concentration courses .......................... 3

Free electives ........................................ 3

JUNIOR YEAR

SEM. HRS.

Kinesiology 3800, 3801, 3802 ..................... 9

Area of concentration courses .......................... 12

Free electives ........................................ 3

SENIOR YEAR

SEM. HRS.

Kinesiology 3804, 4513, 4517, 4835 ............... 15

Area of concentration courses .......................... 9

Free electives ........................................ 6
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.
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
225-578-5731
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

<table>
<thead>
<tr>
<th>Departments</th>
<th>Curricula</th>
<th>Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological &amp; Agricultural Engineering</td>
<td>Biological Engineering</td>
<td>Bachelor of Science in Biological Engineering</td>
</tr>
<tr>
<td>Gordon A. and Mary Cain Department of</td>
<td>Chemical Engineering</td>
<td>Bachelor of Science in Chemical Engineering</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>Civil Engineering</td>
<td>Bachelor of Science in Civil Engineering</td>
</tr>
<tr>
<td></td>
<td>Environmental</td>
<td>Bachelor of Science in Environmental</td>
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<tr>
<td>Engineering</td>
<td>Engineering</td>
<td>Engineering</td>
</tr>
<tr>
<td>Construction Management &amp; Industrial</td>
<td>Construction</td>
<td>Bachelor of Science in Construction</td>
</tr>
<tr>
<td>Engineering</td>
<td>Management</td>
<td>Management</td>
</tr>
<tr>
<td></td>
<td>Industrial Engineering</td>
<td>Industrial Engineering</td>
</tr>
<tr>
<td>Electrical &amp; Computer Engineering</td>
<td>Electrical Engineering</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td></td>
<td>Computer Engineering</td>
<td>Computer Engineering</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>Mechanical Engineering</td>
<td>Bachelor of Science in Mechanical Engineering</td>
</tr>
<tr>
<td>Craft &amp; Hawkins Department of Petroleum Engineering</td>
<td>Petroleum Engineering</td>
<td>Bachelor of Science in Petroleum Engineering</td>
</tr>
</tbody>
</table>

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 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 2.00 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 Engineering. 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.
- Completing one of the established curricula
- Correspondence courses for degree credit. 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.

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 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: 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 EIEG 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, 4362, 4433, and 4540 and two courses from the following: IE 4485, 4490, 4785, 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.

- 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.

- 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 (4) 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 3203, IE 3201 or PETE 3025, MG 3200, MKT 4101, PHYS 1202, 2102, or 2002, and CMST 1061, 2060 or 2061.

- 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, 4760, 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 the 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, 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 creator 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

OFFICE • 149 E. B. Doran Building
TELEPHONE • 225-578-3153
FAX • 225-578-3492
E-MAIL • thomasad@lsu.edu
WEB SITE • www.baec.lsu.edu

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 Biomedical 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

College of Engineering
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**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Biological Sciences 1201, 1208</td>
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<tr>
<td>Biological Sciences 1202, 1209</td>
<td>4</td>
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<tr>
<td>Biological Engineering 1250, 1252</td>
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</tr>
<tr>
<td>Chemistry 1201, 1202</td>
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<tr>
<td>English 1001</td>
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<tr>
<td>Mathematics 1550, 1552</td>
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</tr>
<tr>
<td>Physics 2101</td>
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**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Biological Engineering 2350, 2352</td>
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<tr>
<td>Biological Sciences 2051</td>
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<tr>
<td>Civil Engineering 2450, 3400</td>
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<td>Chemistry 1212</td>
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<td>Chemistry 2261</td>
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<td>English 2000</td>
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<tr>
<td>Electrical Engineering 2950</td>
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<tr>
<td>Mathematics 2065</td>
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<td>Physics 2102</td>
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**JUNIOR YEAR**

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<tr>
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<tr>
<td>Biological Engineering 4352</td>
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<td>Biological Engineering 3290</td>
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<td>Biological Sciences 2083</td>
<td>3</td>
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<tr>
<td>Civil Engineering 2200</td>
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<tr>
<td>Civil Engineering 2460 or Mechanical Engineering 3133</td>
<td>3</td>
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</tbody>
</table>

**Agricultural Economics 2003 or Economics 2030**

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Mechanical Engineering 3333</td>
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</tbody>
</table>

**ENGINEERING DESIGN ELECTIVES**

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Economics 2003 or Economics 2030</td>
<td>3</td>
</tr>
</tbody>
</table>

**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. Louisiania 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 staff 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 work. 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: biomass, environmental, or materials studies. Also, all chemical engineering 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 will 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 status, 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 less than three animals through the use of computers, which will 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.

**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.

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- 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 status, 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 less than a 2.00 shall be placed on departmental academic probation. Students will remain on departmental academic 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 (*).

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>C</th>
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<tbody>
<tr>
<td>Biology 1201*</td>
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<tr>
<td>Chemistry 1201*</td>
<td>1212</td>
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<td>English 1001*</td>
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<tr>
<td>Mathematics 1550*</td>
<td>1552*</td>
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<td></td>
<td></td>
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<tr>
<td>Physics 1201 or 2101*</td>
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<td>Chemistry 2261, 2262, 2364</td>
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<td>Civil Engineering 2450</td>
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<tr>
<td>Economics 2030*</td>
<td>3</td>
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<td>English 2000</td>
<td>3</td>
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<tr>
<td>Mathematics 2090</td>
<td>4</td>
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<tr>
<td>Physics 1202 or 2102</td>
<td>3-4</td>
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<tr>
<td>Chemistry 3491</td>
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<td>Mechanical Engineering 2733</td>
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<th>C</th>
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<tbody>
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<td>Chemical Engineering 4151, 4162, 4172, 4190, 4198</td>
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<tr>
<td>Approved electives or area of concentration courses</td>
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</table>

**Areas of Concentration**

Lists of approved area electives 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**

OFFICE • 3418 Patrick F. Taylor Hall
TELEPHONE • 225-578-8442
FAX • 225-578-4945
E-MAIL • voydagis@eng.lsu.edu
WEB SITE • www.cce.lsu.edu

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-economic, 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 outcomes 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 hydraulic 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 air, water, and land systems and associated 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 101, 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**

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
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<td>CHEM 1201, * 1202*</td>
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<tr>
<td>2</td>
<td>Civil Engineering 2700</td>
<td>Introduction to Civil Engineering 1</td>
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<tr>
<td>2</td>
<td>Construction Management 1030</td>
<td>Introduction to Construction Management 1</td>
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<tr>
<td>3</td>
<td>English 1001*</td>
<td>English Composition 1</td>
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<td>3</td>
<td>Geology 1001</td>
<td>Introduction to Geology 1</td>
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<td>9</td>
<td>Mathematics 1550,* 1552*</td>
<td>Calculus 1, Calculus 2</td>
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<td>3</td>
<td>Physics 2101*</td>
<td>Physics 1, Physics 2</td>
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<tr>
<td>1</td>
<td>Basic sciences lab elective</td>
<td>Basic sciences lab elective 1</td>
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<td>3</td>
<td>General education arts, humanities, social sciences course*</td>
<td>General education arts, humanities, social sciences course 1</td>
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<tr>
<td>3</td>
<td>General education life science course*</td>
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<td><strong>35</strong></td>
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**SOPHOMORE YEAR**

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<td>Civil Engineering 2200, 2450, 2460</td>
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<tr>
<td>4</td>
<td>Experimental Statistics 2201</td>
<td>Statistics 1</td>
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<td>6</td>
<td>Mathematics 2057, 2065</td>
<td>Linear Algebra 1, Linear Algebra 2</td>
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<td>3</td>
<td>Physics 2102</td>
<td>Physics 3</td>
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**JUNIOR YEAR**

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<th>SEM. HRS.</th>
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<td>Civil Engineering 2250, 3300, 3350, 3410, 3415, 3600, 4410</td>
<td>Civil Engineering 2250, 3300, 3350, 3410, 3415, 3600, 4410</td>
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<td>6</td>
<td>Environmental Engineering 3110, 3200</td>
<td>Environmental Engineering 3110, 3200</td>
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<td>3</td>
<td>English 2000*</td>
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<td>Economics 2030*</td>
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<td>Mechanical Engineering 3333 or Electrical Engineering 2950</td>
<td>Mechanical Engineering 3333 or Electrical Engineering 2950</td>
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<td>General education arts, humanities, social sciences course*</td>
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**SENIOR YEAR**

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<td>Civil engineering design electives</td>
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<td>3</td>
<td>Civil engineering project elective</td>
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<td>3</td>
<td>Civil engineering technical elective or ROTC</td>
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<td>Civil engineering technical elective</td>
<td>Civil engineering technical elective 2</td>
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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, humanities, social sciences course* .................................. 3
Approved elective ......................... 3
Mathematics 1550* ............................. 5

SOPHOMORE 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

JUNIOR YEAR SEM. HRS.
Construction Management 3000, 3100, 3121, 3131, 3141, 3303, 3400, 3505 ............ 24

SENIOR YEAR SEM. HRS.
Construction Management 3506, 4200, 4201, 4202 ........................ 12
Approved business/management electives ... 9
Approved electives .......................... 6
Industrial Engineering 3201 ................. 3

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 working 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 lifelong learning such as conferences,
professional development courses, certifications and licensing, and advanced professional training.
- 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

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 ................................................ 3
General education arts, humanities, social sciences course* ...................................................... 3

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 course* ...................................................... 3

SENIOR YEAR SEM. HRS.
Industrial Engineering 4461, 4516, 4530, 4599 ........................................ 12
Approved industrial engineering electives .................. 9
General education arts, humanities, social sciences course* ...................................................... 9

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING

OFFICE • 102 Electrical Engineering Building
TELEPHONE • 225-578-5241
FAX • 225-578-5200
WEB SITE • www.ece.lsu.edu

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.

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 department 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
ROTC .......................................................... 3

SOPHOMORE YEAR SEM. HRS.
Computer Science 1253, 1254 .................................. 6
Electrical Engineering 2120, 2130, 2230, 2231, 2270, 2730, ........................................ 15
Mathematics 2057, 2090 ........................................ 7
Physics 2102* ..................................................... 3
English 2000 ..................................................... 3

JUNIOR YEAR SEM. HRS.
Approved electrical engineering electives ........... 12
Mathematics 3140, 3220, 3221, 3320, 3410, 3530, 3610, 3750, 3751 ........................................ 26
General education arts/humanities/social sciences courses* ...................................................... 3

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.

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- 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 department 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
ROTC .......................................................... 3

SOPHOMORE YEAR SEM. HRS.
Computer Science 1253, 1254 .................................. 6
Electrical Engineering 2120, 2130, 2230, 2231, 2270, 2730, ........................................ 15
Mathematics 2057, 2090 ........................................ 7
Physics 2102* ..................................................... 3
English 2000 ..................................................... 3

JUNIOR YEAR SEM. HRS.
Approved electrical engineering electives ........... 12
Mathematics 3140, 3220, 3221, 3320, 3410, 3530, 3610, 3750, 3751 ........................................ 26
General education arts/humanities/social sciences courses* ...................................................... 3
### DEPARTMENT OF MECHANICAL ENGINEERING

**OFFICE** • 2508 Patrick F. Taylor Hall  
**TELEPHONE** • 225-578-5792  
**FAX** • 225-578-5924

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 (*).
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 must 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
Geology 1001, 1003, 1601 ...................... 7
Mathematics 1550,* 1552* ....................... 9
Petroleum Engineering 1010 or ROTC ....... 2
Construction Management 1030 or ROTC ... 2
Physics 2101* .................................. 3

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

JUNIOR YEAR

SEM. HRS.

Civil Engineering 2200, 3400 .................. 6
Mechanical Engineering 3333 .................. 3
Life science elective* ........................... 3
Petroleum Engineering 3025, 3036, 3037, 3053, 4050, 4060 ...................... 14
Approved geology elective .................... 3

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

CRAFT & HAWKINS
DEPARTMENT OF PETROLEUM ENGINEERING

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.
Honors College

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

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 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.
<table>
<thead>
<tr>
<th>General Education Honors Courses (HNRS)</th>
<th>General Education Area</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>HNRS 1001</td>
<td>Humanities</td>
<td>Seminar</td>
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<tr>
<td>HNRS 1003</td>
<td>Humanities; Social Sciences</td>
<td>Lecture</td>
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<tr>
<td>HNRS 1007</td>
<td>Natural Sciences (Life)</td>
<td>Lecture/Lab</td>
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<tr>
<td>HNRS 1008</td>
<td>Natural Sciences (Life)</td>
<td>Lecture/Lab</td>
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<tr>
<td>HNRS 1035</td>
<td>Natural Sciences (Life)</td>
<td>Seminar</td>
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<tr>
<td>HNRS 1036</td>
<td>Natural Sciences (Physical)</td>
<td>Seminar</td>
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<tr>
<td>HNRS 2000</td>
<td>English Composition; Humanities; Social Sciences</td>
<td>Seminar/Lecture</td>
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<td>HNRS 2002</td>
<td>English Composition; Humanities</td>
<td>Seminar</td>
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<tr>
<td>HNRS 2004</td>
<td>Humanities; Social Sciences</td>
<td>Lecture</td>
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<tr>
<td>HNRS 2012</td>
<td>English Composition; Humanities; Social Sciences</td>
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<td>HNRS 2013</td>
<td>English Composition; Humanities; Social Sciences</td>
<td>Seminar</td>
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<tr>
<td>HNRS 2021</td>
<td>English Composition; Arts</td>
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<td>HNRS 3001</td>
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<td>HNRS 3033</td>
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<table>
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<th>Other Honors Courses (HNRS)</th>
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<tbody>
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<td>HNRS 1101</td>
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<td>Seminar</td>
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<td>HNRS 3991</td>
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<td>HNRS 3992</td>
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<td>Departmental Honors</td>
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</tbody>
</table>

*General education courses are marked with stars (★)*
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.
MANSHP SCHOOL OF MASS COMMUNICATION
• UNDERGRADUATE DEGREE

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.

- 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.

- 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.

- 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.

- 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 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 3040, 3050, 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 hours in mass communication: MC 2010, 4090, and 12 hrs. from one of the following sequence of courses: print journalism: MC 3065, 3101, 3103, and 4101; 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 3000, 3010, 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.***

**MC 2000 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

<table>
<thead>
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<td>History 1001, 1003 or Geography 1001, 1003</td>
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<td>6</td>
<td>Mathematics 1201 or 1202</td>
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<td>3</td>
<td>General education science</td>
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<td>Library and Information Science 1001</td>
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SOPHOMORE YEAR

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<td>Economics 2000 and 2010 or 2030</td>
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<td>General education analytical reasoning</td>
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<td>3</td>
<td>General education science*</td>
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<td>3</td>
<td>History 2055, 2057</td>
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<td>Mass Communication 2015, 2525</td>
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<td>Approved area of concentration elective</td>
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<td>3</td>
<td>Social sciences general education course</td>
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JUNIOR YEAR

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<td>3</td>
<td>Approved electives</td>
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<td>9</td>
<td>Approved social sciences or humanities courses</td>
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<td>Approved elective</td>
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SENIOR YEAR

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<td>Area of concentration courses</td>
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<td>3</td>
<td>General education arts course</td>
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<tr>
<td>6</td>
<td>Approved social sciences or humanities electives</td>
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<td>11-3</td>
<td>Approved electives</td>
</tr>
<tr>
<td>29-27</td>
<td>Areas of Concentration</td>
</tr>
</tbody>
</table>

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 3031, 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, 3102, 4001, or MC 4515; mass communication electives (6 hrs.); other requirements (9 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.
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 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

<table>
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<tr>
<th>School/Department</th>
<th>Curricula</th>
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</thead>
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<td>School of Music</td>
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<td>Bachelor of Music</td>
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<tr>
<td></td>
<td>Music Education</td>
<td>Bachelor of Arts</td>
</tr>
<tr>
<td></td>
<td>Theatre</td>
<td>Bachelor of Music Education</td>
</tr>
<tr>
<td>Department of Theatre</td>
<td>Theatre</td>
<td>Bachelor of Arts</td>
</tr>
</tbody>
</table>

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 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
d- theatre electives—at least nine additional hours of theatre at an advanced (3000/4000) level.

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.

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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**

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**Sophomore Year**

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<th>Course Code</th>
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<tr>
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<td>General education humanities course</td>
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**Junior Year**

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**Senior Year**

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<tr>
<td>Electives or area of concentration courses</td>
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**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, 4716, 4719, 4720, 4721, or 4723; Approved Electives (12 hrs.): A minimum of 12 hrs. chosen from MUS 2131, 3131, 2751, 2752, 3722, 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** (19 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 four 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 MUS 4215, 4216, and MUED 3171, 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 MUS 3771, 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 4749 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, 4226, 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 2.2 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; and
- 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 unless 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 English
- 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
- Proficiency in written English

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 advisor for certification requirements and priorities. 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**

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<th>SEM. HRS.</th>
<th>SEM. HRS.</th>
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**SOPHOMORE YEAR**

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**JUNIOR YEAR**

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**SENIOR YEAR**

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**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**

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<th>SEM. HRS.</th>
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<td>English 1001 or 1004</td>
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<td>Mathematics 1020/1021 or 1029</td>
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**JUNIOR YEAR**

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<td>Music 2053, 2054</td>
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**SENIOR YEAR**

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<td>Music 1700 (2 semesters)</td>
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<td>Approved electives</td>
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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 Journalism may select MUS 4253 Jazz Ensemble for all four required ensemble hours; BA in Music with a 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.ls.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 Place, our students support Louisiana’s burgeoning film industry.

**CURRICULUM IN THEATRE**

**TOTAL SEM. HRS. • 128**

*Mayors in the Department of Theatre must complete a minimum of 39 semester hours of THTR 1000 (8 semesters), 1001, 1025, 2020, 2022, 2024, 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 arts course (*required courses*).

Areas of Concentration

#### Arts Administration

**Required 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

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<table>
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<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
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<tr>
<td>English 1001 or 1004</td>
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<tr>
<td>Mathematics 1021 or 1029</td>
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<td>Foreign language courses*</td>
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<td>General education natural science courses</td>
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<td>Electives or area of concentration courses (entry level foreign language course, if needed)</td>
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<td>English 2148</td>
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</table>
The Graduate School • PROFESSIONAL PROGRAMS

> 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 based on 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.
<table>
<thead>
<tr>
<th>Department</th>
<th>Major</th>
<th>Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>Accounting</td>
<td>MS, PhD</td>
</tr>
<tr>
<td>Agricultural Economics &amp; Agribusiness</td>
<td>Agricultural Economics</td>
<td>MS, PhD</td>
</tr>
<tr>
<td>Animal Sciences, School of</td>
<td>Animal, Dairy &amp; Poultry Sciences*</td>
<td>MS</td>
</tr>
<tr>
<td>Animal Sciences, School of</td>
<td>Animal &amp; Dairy Sciences</td>
<td>PhD</td>
</tr>
<tr>
<td>Architecture, School of</td>
<td>Architecture</td>
<td>MArch</td>
</tr>
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<td>Art, School of</td>
<td>Art History</td>
<td>MA</td>
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<tr>
<td>Art, School of</td>
<td>Studio Art</td>
<td>MFA</td>
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<td>Biochemistry</td>
<td>MS, PhD</td>
</tr>
<tr>
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<td>Biological Sciences</td>
<td>MS, PhD</td>
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<tr>
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<td>MS in Biol. &amp; Ag. E.</td>
</tr>
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<td>Business Administration</td>
<td>Business Administration*</td>
<td>MBA</td>
</tr>
<tr>
<td>Business Administration</td>
<td>Business Administration (Finance)*</td>
<td>PhD**</td>
</tr>
<tr>
<td>Business Administration</td>
<td>Business Administration (Information Systems and Decision Sciences)*</td>
<td>PhD**</td>
</tr>
<tr>
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<td>Business Administration (Management)*</td>
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<td>Business Administration (Marketing)*</td>
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<td>Chemical Engineering</td>
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</tr>
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<td>MS in IE</td>
</tr>
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<td>Curriculum and Instruction</td>
<td>MEd, PhD</td>
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<td></td>
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<tr>
<td>Educational Leadership and Research</td>
<td>PhD</td>
<td></td>
</tr>
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<td>MEd</td>
<td></td>
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<td></td>
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<td>MEd</td>
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<td>Applied Statistics</td>
<td>MApStat</td>
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<td>MS</td>
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<td>MS, PhD</td>
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<td>Hispanic Studies</td>
<td>MA</td>
</tr>
<tr>
<td>French Studies</td>
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<td>MA, PhD</td>
</tr>
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<td>Anthropology</td>
<td>MA</td>
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<td>MA, MS, PhD</td>
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<td>Geology</td>
<td>MS, PhD</td>
</tr>
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<td>MA, PhD</td>
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<td>Human Ecology</td>
<td>MS, PhD</td>
</tr>
<tr>
<td>Human Resource Education &amp; Workforce Development, School of</td>
<td>Human Resource Education</td>
<td>MS, PhD</td>
</tr>
<tr>
<td>Information Systems &amp; Decision Sciences</td>
<td>Information Systems &amp; Decision Sciences</td>
<td>MS</td>
</tr>
<tr>
<td>Kinesiology</td>
<td>Kinesiology</td>
<td>MS, PhD</td>
</tr>
<tr>
<td>Landscape Architecture, School of</td>
<td>Landscape Architecture</td>
<td>MLA</td>
</tr>
<tr>
<td>Liberal Arts</td>
<td>Liberal Arts*</td>
<td>MALA</td>
</tr>
<tr>
<td>Library &amp; Information Science</td>
<td>Library and Information Science</td>
<td>MLIS</td>
</tr>
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<td>Mass Communication, Manship School of</td>
<td>Mass Communication</td>
<td>MMC</td>
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<td></td>
<td>Mass Communication &amp; Public Affairs</td>
<td>PhD</td>
</tr>
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<td>Mathematics</td>
<td>Mathematics</td>
<td>MS, PhD</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
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</table>
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.

### GRADUATE AND PROFESSIONAL DEGREES

<table>
<thead>
<tr>
<th>Department</th>
<th>Major</th>
<th>Degree</th>
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</thead>
<tbody>
<tr>
<td>Music, School of</td>
<td>Music</td>
<td>MM, DMA, PhD</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Natural Sciences*</td>
<td>MNS</td>
</tr>
<tr>
<td>Oceanography &amp; Coastal Sciences</td>
<td>Oceanography and Coastal Sciences</td>
<td>MS, PhD</td>
</tr>
<tr>
<td>Petroleum Engineering, Craft &amp; Hawkins Department of</td>
<td>Petroleum Engineering</td>
<td>MS in PETE, PhD</td>
</tr>
<tr>
<td>Philosophy &amp; Religious Studies</td>
<td>Philosophy</td>
<td>MA</td>
</tr>
<tr>
<td>Physics &amp; Astronomy</td>
<td>Medical Physics and Health Physics</td>
<td>MS</td>
</tr>
<tr>
<td>Plant Pathology &amp; Crop Physiology</td>
<td>Plant Health</td>
<td>MS, PhD</td>
</tr>
<tr>
<td>Plant, Environmental, and Soil Sciences, School of</td>
<td>Agronomy</td>
<td>MS, PhD</td>
</tr>
<tr>
<td>Political Science</td>
<td>Political Science</td>
<td>MA, PhD</td>
</tr>
<tr>
<td>Psychology</td>
<td>Psychology</td>
<td>MA, PhD</td>
</tr>
<tr>
<td>Public Administration Institute</td>
<td>Public Administration*</td>
<td>MPA</td>
</tr>
<tr>
<td>Renewable Natural Resources, School of</td>
<td>Forestry</td>
<td>MS, PhD</td>
</tr>
<tr>
<td>Veterinary Medicine</td>
<td>Veterinary Medical Sciences*</td>
<td>MS, PhD</td>
</tr>
<tr>
<td>Social Work, School of</td>
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<td>MSW, PhD</td>
</tr>
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<td>Sociology</td>
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<td>MA, PhD</td>
</tr>
<tr>
<td>Theatre</td>
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<td>MFA, PhD</td>
</tr>
<tr>
<td>Veterinary Medicine</td>
<td>Veterinary Medicine</td>
<td>DVM</td>
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</table>

*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 (**).
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. Paralysts 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, mark sheets, certificates of degree—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) 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 the Educational Testing 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 admission 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 enrollment 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, and $75 application fee 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: December 1 for the fall semester, 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 School at the address above. Transcripts from LSU-BR

Graduate • Professional Programs 191
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 scoring 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:**

- Admission is for the semester requested. Those admitted who do not register must make a written request to be reconsidered for admission for the 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 governing 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 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 “auditor only” form from the Office of the University Registrar.

**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.
Students, section, by mail. the University is not responsible for cash sent. Bank drafts are not accepted as payment and also applies to applications for readmission application deadlines. The late application fee (check or money order made payable to Louisiana State University) must be accompanied by a nonrefundable late fee, where applicable, and 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.bgtplan.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.bgtplan.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 nonresident 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, room and board, 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. Superiors 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 Supplemental Fellowships • Graduate assistantships awarded to graduate students are subject to the same requirements and restrictions as are graduate assistantships in these fields. Students who fail to meet the requirements of grants funded by the Board of Regents, the Louisiana Board of Regents 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 nonresident tuition (if applicable) are waived. Recipients are responsible for paying any fees required by the university. Recipients may request an exemption from either or both resident and nonresident tuition in the case of financial hardship. 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 GRE scores if applicable), an official transcript of all gpa's 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 1 of each year.

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 assistantships 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/lass/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 department chair and the dean of the Graduate School, in each department, and at www.gradschool.lsu.edu.

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 apportioned toward a previous master’s degree may be applied towards 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. The student 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 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 on all undergraduate 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 grades earned in a single semester.

• “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 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. 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 this responsibility for changing an “I” grade liesboth 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 who can 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 may 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 graduate 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 during 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 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 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
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 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 craftsmanship. 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 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 member, 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 as a result it may 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. Approval examination may be waived by the dean of the Graduate School for failure to submit the approved thesis in a timely manner 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 formal study in the 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. Admission to the 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 marked ability in each of a broad major area of study or 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,” “NS,” 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-tenured 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 all 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) 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 not approved in advance by the dean of the Graduate School, 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 graduate study under the direct supervision of a major professor and an advisory committee.

General Examination

It is in the interest of students for those with high probability of continuing successfully toward a doctoral degree to 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 cannot be more than one disapproval in the examination:

(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 summer) 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.

<table>
<thead>
<tr>
<th>FULFILLING DOCTORAL DEGREE REQUIREMENTS</th>
<th>PROCEDURE</th>
<th>TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submit Program of Study</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Satisfy Full-Time Residence Requirement</td>
<td>After submission of “Program of Study.” One full academic year of continuous full-time enrollment.</td>
<td></td>
</tr>
<tr>
<td>Request General Examination</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Request Final Examination</td>
<td>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.</td>
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</table>
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
TELEPHONE • 225-578-3158
FAX • 225-578-4581

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
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
- Trauma 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.

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:
  - 90 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 • 225-578-9898
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 must 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 subject examinations 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 application materials, and letters of recommendation. 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 evaluates 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 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 pre-veterinary 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, 8 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, 8 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 2160.**

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 pre-veterinary requirements over a longer period.

- Although the primary objective of the applicant may be to complete the pre-veterinary 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 particular curriculum 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.
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 languages. 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 Building
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 focus, 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.engr.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...
The Minerals Processing Research Division, supported by major industrial 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 proposals involving 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 agreements 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 development to support a broad range of radiation applications.
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.

The 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** • chsophe@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 licenses 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 Chopin Hall
**TELEPHONE** • 225-578-6759
**FAX** • 225-578-0276
**WEB SITE** • www.iec.lsu.edu
**E-MAIL** • eo-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** • 6900 Jefferson Hwy
**TELEPHONE** • 225-578-8887
**FAX** • 225-578-6954
**WEB SITE** • www.camd.lsu.edu
**E-MAIL** • rkurtz@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** • pskate@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, mentor 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 partnership 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 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-, 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 • 225-578-8663  
FAX • 225-578-5980  
WEB SITE • aaweb.lsu.edu  
E-MAIL • aac@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 community, 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, 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 • 225-578-6840
WEB SITE • www.lsu.edu/its
E-MAIL • itsinfo@lsu.edu

LOUIS: The Louisiana Library Network

EXECUTIVE DIRECTOR • Boé
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 listser 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 30 Gigabits per second. LSU is a member of Internet2, SURAgid, 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 web services. 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/uis

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 Programs, Enterprise Systems, HR/Financial Applications; Student and Research Applications; and Portals of Business Intelligence.

User Support and Student IT Enablement

EXECUTIVE DIRECTOR/DEPUTY CIO • Chids
OFFICE • Frey Computing Services Center
TELEPHONE • 225-578-3700
FAX • 225-578-6400
WEB SITE • www.lsu.edu/us

User Support and Student IT Enablement (USIS) 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. UIS 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. UIS 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 • Wischhusen
CO-DIRECTORS • Kirshner, Madden, McAnelly, Neubrander, Wischhusen
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 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 • Eabanks
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. These positions, called 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 Orry 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 is closed. 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 includes 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 nonprofit current 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-elephant 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 clearance 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 Prodrates, 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 quantitative 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.


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, technical rescue courses, and lab, while the clinical component requires

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.ncbtr.lsu.edu
E-MAIL • info@ncbtr.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 • southerntreview@lsu.edu

The Southern Review, now in its second series, is a literary journal published quarterly under the editorship of Professor Jeane 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 (accompanying 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 • 225-578-1843
WEB SITE • www.entomology.lsu.edu/lsam
E-MAIL • ecarth@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 non-elected officials.

**COLLEGE OF ART & DESIGN**

DEAN • Cronnath
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 (CAGIS) 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.

CAGIS 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 • occdd@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 these 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 College 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 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 2 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@lslu.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 courses 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 • locs@lslu.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.lapopp.lsu.edu
E-MAIL • joachim@lslu.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 national 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 • 225-578-4756
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, in 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.

Myological Herbarium

The Bernard Lowy Myological 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: dferguson1@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 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 archaeological 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 NRLA—Mobile Classroom.

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 Department of 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 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 • rss@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  •  225-578-6366
FAX  •  225-578-6366
WEB SITE  •  www.bus.lsu.edu/eri

The Louisiana Real Estate Research Institute was established in 1985 with funding from the Oursou 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 Oursou College of Business, the Commercial Investment Divi-ision 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  •  sdm@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, 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 to develop an understanding of the structure and function of coastal ecosystems. They are conducting research on the biogeochemistry of coastal ecosystems, the ecology of wetlands, and the role of coastal ecosystems in the global carbon cycle.

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 duration of existing fisheries and fish populations; and to assist in providing 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, genetics, mollusk, and crustacean biology, oceanography, modeling, and statistics to address relevant issues, such as overfishing, pollution, habitat loss, sustainability, and resource utilization. The group focuses on the threats to 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 fishes and fish species to environmental stressors such as anaerobic soil conditions and salinity, factors affecting their biodegradation of petroleum hydrocarbons.

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.
and toxic synthetic organic compounds in wetlands, and physical chemical 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 coastal 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 CAE 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
OFFICE • 1419B Patrick F. Taylor Hall
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 magnet 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 specialty 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 • 225-578-5940
WEB SITE • www.hsrs-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 Gourier 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 DOT 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 • Pardee
OFFICE • 3221 Patrick Taylor Hall
TELEPHONE • 225-578-6027
FAX • 225-578-5043
WEB SITE • www.lwwri.lsu.edu

The Louisiana Water Resources Research Institute funds research concerned with water resource 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 and workshops, and 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.

ARCUS 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 • Dagg
TELEPHONE • 985-581-4629
WEB SITE • www.auduboninstitute.org

The Audubon Center for Research of Endangered Species (ACRES), opened in 1996, is an ambitious 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 (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,
222 Research/Faculty Resources

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 consortium 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

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 • Ledet
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. 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 • isosgrad@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 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.
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 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

DOUGLAS P. WEIMER
Executive Director

JOSEPH GREENBERG
Associate Executive Director

WENDY OVERTON
Assistant Executive Director

KATHRYN E. CARROLL
Director

GAIL R. HAWKES
Associate Director

DOREEN O. MAXCY
Manager

JOHN N. RIALS
Manager

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.

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 • services@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 • wwww.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 for 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 in 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 (Franklin). 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 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 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 Johnson
OFFICE • 1196 Pleasant Hall
TELEPHONE • 225-578-4316
FAX • 225-578-6324
WEB SITE • www.outreach.lsu.edu

**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 Coleman
OFFICE • 1200 Pleasant Hall
TELEPHONE • 225-578-6324
FAX • 225-578-6324
WEB SITE • www.outreach.lsu.edu

**Pre-college Programs**

ASSOCIATE DIRECTOR • Hawkes DesHotels
OFFICE • 2165 Pleasant Hall
TELEPHONE • 225-578-3198

**Pre-college & Youth Non-credit Programs**

COORDINATOR • Carlson Johnson
OFFICE • 2167 Pleasant Hall
TELEPHONE • 225-578-1067
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 Carlson
OFFICE • 2165 Pleasant Hall
TELEPHONE • 225-578-1067
FAX • 225-578-4800
WEB SITE • www.outreach.lsu.edu/isf

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 problem; and effectively present their works to society.

**High School Credit Programs**

PROGRAM MANAGER • Coleman Carlson
OFFICE • 1225 Pleasant Hall
TELEPHONE • 225-578-4316; 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 or 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 Colombia. 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.
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 of 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.
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 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.
<table>
<thead>
<tr>
<th>DESIGNATION</th>
<th>RUBRIC</th>
<th>DEPARTMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>ACCT</td>
<td>Accounting</td>
</tr>
<tr>
<td>Aerospace Studies</td>
<td>ASST</td>
<td>Aerospace Studies</td>
</tr>
<tr>
<td>African &amp; African American Studies</td>
<td>AAAS</td>
<td>Arts &amp; Sciences (College of)</td>
</tr>
<tr>
<td>Agricultural Economics</td>
<td>AGEC</td>
<td>Agricultural Economics &amp; Agribusiness</td>
</tr>
<tr>
<td>Agriculture</td>
<td>AGRI</td>
<td>Agriculture (College of)</td>
</tr>
<tr>
<td>Agronomy</td>
<td>AGRO</td>
<td>Agronomy</td>
</tr>
<tr>
<td>Animal Science</td>
<td>ANSC</td>
<td>Animal Science (School of)</td>
</tr>
<tr>
<td>Anthropology</td>
<td>ANTH</td>
<td>Geography &amp; Anthropology</td>
</tr>
<tr>
<td>Arabic</td>
<td>ARAB</td>
<td>Foreign Languages &amp; Literatures</td>
</tr>
<tr>
<td>Architecture</td>
<td>ARCH</td>
<td>Architecture (School of)</td>
</tr>
<tr>
<td>Art</td>
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<td>Art (School of)</td>
</tr>
<tr>
<td>Art History</td>
<td>ARTH</td>
<td>Art (School of)</td>
</tr>
<tr>
<td>Astronomy</td>
<td>ASTR</td>
<td>Physics &amp; Astronomy</td>
</tr>
<tr>
<td>Basic Sciences</td>
<td>BASC</td>
<td>Basic Sciences (College of)</td>
</tr>
<tr>
<td>Biological Engineering</td>
<td>BE</td>
<td>Biological &amp; Agricultural Engineering</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>BIOL</td>
<td>Biological Sciences</td>
</tr>
<tr>
<td>Business Administration</td>
<td>BADM</td>
<td>Business Administration (E. J. Ourso College of)</td>
</tr>
<tr>
<td>Business Communication</td>
<td>BCOM</td>
<td>Management (Rucks Department of)</td>
</tr>
<tr>
<td>Business Law</td>
<td>BLAW</td>
<td>Finance</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>CHE</td>
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</tr>
<tr>
<td>Chemistry</td>
<td>CHEM</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Chinese</td>
<td>CHIN</td>
<td>Foreign Languages &amp; Literatures</td>
</tr>
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<td>CE</td>
<td>Civil &amp; Environmental Engineering</td>
</tr>
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<td>CLST</td>
<td>Foreign Languages &amp; Literatures</td>
</tr>
<tr>
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<td>COMD</td>
<td>Communication Sciences &amp; Disorders</td>
</tr>
<tr>
<td>Communication Studies</td>
<td>CMST</td>
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</tr>
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<td>Comparative Biomedical Sciences</td>
<td>CBS</td>
<td>Comparative Biomedical Sciences</td>
</tr>
<tr>
<td>Comparative Literature</td>
<td>CPLT</td>
<td>Comparative Literature (Interdepartmental Program in)</td>
</tr>
<tr>
<td>Computer Science</td>
<td>CSC</td>
<td>Computer Science</td>
</tr>
<tr>
<td>Construction Management</td>
<td>CMST</td>
<td>Construction Management &amp; Industrial Engineering</td>
</tr>
<tr>
<td>Curriculum &amp; Instruction</td>
<td>EDCI</td>
<td>Educational Theory, Policy &amp; Practice</td>
</tr>
<tr>
<td>Dairy Science</td>
<td>DARY</td>
<td>Dairy Science</td>
</tr>
<tr>
<td>Disaster Science and Management</td>
<td>DSM</td>
<td>Arts &amp; Sciences (College of)</td>
</tr>
<tr>
<td>Economics</td>
<td>ECON</td>
<td>Economics</td>
</tr>
<tr>
<td>Education</td>
<td>EDUC</td>
<td>Education (College of)</td>
</tr>
<tr>
<td>Educational Leadership, Research &amp; Counseling</td>
<td>ELRC</td>
<td>Educational Theory, Policy &amp; Practice</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>EE</td>
<td>Electrical &amp; Computer Engineering</td>
</tr>
<tr>
<td>Engineering</td>
<td>ENGR</td>
<td>Engineering (College of)</td>
</tr>
<tr>
<td>English</td>
<td>ENGL</td>
<td>English</td>
</tr>
<tr>
<td>Entomology</td>
<td>ENTM</td>
<td>Entomology</td>
</tr>
<tr>
<td>DESIGNATION</td>
<td>RUBRIC</td>
<td>DEPARTMENT</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>--------</td>
<td>------------------------------------------------</td>
</tr>
<tr>
<td>Environmental Engineering</td>
<td>EVEG</td>
<td>Civil &amp; Environmental Engineering</td>
</tr>
<tr>
<td>Environmental Management</td>
<td>EMS</td>
<td>Agronomy</td>
</tr>
<tr>
<td>Systems</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental Sciences</td>
<td>ENVS</td>
<td>Environmental Sciences</td>
</tr>
<tr>
<td>Experimental Statistics</td>
<td>EXST</td>
<td>Experimental Statistics</td>
</tr>
<tr>
<td>Film &amp; Media Arts</td>
<td>FMA</td>
<td>Arts &amp; Sciences (College of)</td>
</tr>
<tr>
<td>Finance</td>
<td>FIN</td>
<td>Finance</td>
</tr>
<tr>
<td>Food Science</td>
<td>FDSC</td>
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</tr>
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<td>French</td>
<td>FREN</td>
<td>French Studies</td>
</tr>
<tr>
<td>Geography</td>
<td>GEOG</td>
<td>Geography &amp; Anthropology</td>
</tr>
<tr>
<td>Geology</td>
<td>GEOL</td>
<td>Geology &amp; Geophysics</td>
</tr>
<tr>
<td>German</td>
<td>GERM</td>
<td>Foreign Languages &amp; Literature</td>
</tr>
<tr>
<td>Greek</td>
<td>GREK</td>
<td>Foreign Languages &amp; Literature</td>
</tr>
<tr>
<td>Hebrew</td>
<td>HEBR</td>
<td>Foreign Languages &amp; Literature</td>
</tr>
<tr>
<td>History</td>
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<td>History</td>
</tr>
<tr>
<td>Honors</td>
<td>HNRS</td>
<td>Honors College</td>
</tr>
<tr>
<td>Horticulture</td>
<td>HORT</td>
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</tr>
<tr>
<td>Human Ecology</td>
<td>HUEC</td>
<td>Human Ecology (School of)</td>
</tr>
<tr>
<td>Human Resource Education</td>
<td>HRE</td>
<td>Human Resource Education &amp; Workforce Development (School of)</td>
</tr>
<tr>
<td>Industrial Engineering</td>
<td>IE</td>
<td>Construction Management &amp; Industrial Engineering</td>
</tr>
<tr>
<td>Information Systems &amp; Decision Sciences</td>
<td>ISDS</td>
<td>Information Systems &amp; Decision Sciences</td>
</tr>
<tr>
<td>Interior Design</td>
<td>ID</td>
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</tr>
<tr>
<td>International Studies</td>
<td>INTL</td>
<td>Arts &amp; Sciences (College of)</td>
</tr>
<tr>
<td>Italian</td>
<td>ITAL</td>
<td>Foreign Languages &amp; Literature</td>
</tr>
<tr>
<td>Japanese</td>
<td>JAPN</td>
<td>Foreign Languages &amp; Literature</td>
</tr>
<tr>
<td>Kinesiology</td>
<td>KIN</td>
<td>Kinesiology</td>
</tr>
<tr>
<td>Landscape Architecture</td>
<td>LA</td>
<td>Landscape Architecture (School of)</td>
</tr>
<tr>
<td>Latin</td>
<td>LATN</td>
<td>Foreign Languages &amp; Literature</td>
</tr>
<tr>
<td>Liberal Arts</td>
<td>LIBA</td>
<td>Arts &amp; Sciences (College of)</td>
</tr>
<tr>
<td>Library &amp; Information Science</td>
<td>LIS</td>
<td>Library &amp; Information Science (School of)</td>
</tr>
<tr>
<td>Life Course and Aging</td>
<td>LCA</td>
<td>Arts &amp; Sciences (College of)</td>
</tr>
<tr>
<td>Linguistics</td>
<td>LING</td>
<td>Linguistics (Interdepartmental Program in)</td>
</tr>
<tr>
<td>Management</td>
<td>MGT</td>
<td>Management (Rucks Department of)</td>
</tr>
<tr>
<td>Marketing</td>
<td>MKT</td>
<td>Marketing</td>
</tr>
<tr>
<td>Mass Communication</td>
<td>MC</td>
<td>Mass Communication (Manship School of)</td>
</tr>
<tr>
<td>Mathematics</td>
<td>MATH</td>
<td>Mathematics</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>ME</td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>Medical Physics</td>
<td>MEDP</td>
<td>Physics &amp; Astronomy</td>
</tr>
<tr>
<td>Military Science</td>
<td>MILS</td>
<td>Military Science</td>
</tr>
<tr>
<td>Music</td>
<td>MUS</td>
<td>Music (School of)</td>
</tr>
<tr>
<td>DESIGNATION</td>
<td>RUBRIC</td>
<td>DEPARTMENT</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>---------</td>
<td>-----------------------------------------</td>
</tr>
<tr>
<td>Music Education</td>
<td>MUED</td>
<td>Music (School of)</td>
</tr>
<tr>
<td>Nuclear Science</td>
<td>NS</td>
<td>Physics &amp; Astronomy</td>
</tr>
<tr>
<td>Oceanography &amp; Coastal Sciences</td>
<td>OCS</td>
<td>Oceanography &amp; Coastal Sciences</td>
</tr>
<tr>
<td>Pathobiological Sciences</td>
<td>PBS</td>
<td>Pathobiological Sciences</td>
</tr>
<tr>
<td>Petroleum Engineering</td>
<td>PETE</td>
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</tr>
<tr>
<td>Philosophy</td>
<td>PHIL</td>
<td>Philosophy &amp; Religious Studies</td>
</tr>
<tr>
<td>Physical Science</td>
<td>PHSC</td>
<td>Physics &amp; Astronomy</td>
</tr>
<tr>
<td>Physics</td>
<td>PHYS</td>
<td>Physics &amp; Astronomy</td>
</tr>
<tr>
<td>Plant Health</td>
<td>PLHL</td>
<td>Plant Pathology &amp; Crop Physiology</td>
</tr>
<tr>
<td>Political Science</td>
<td>POLI</td>
<td>Political Science</td>
</tr>
<tr>
<td>Portuguese</td>
<td>PORT</td>
<td>Foreign Languages &amp; Literature</td>
</tr>
<tr>
<td>Poultry Science</td>
<td>PLSC</td>
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<td>Psychology</td>
<td>PSYC</td>
<td>Psychology</td>
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<td>Public Administration</td>
<td>PADM</td>
<td>Public Administration (Institute)</td>
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<tr>
<td>Religious Studies</td>
<td>REL</td>
<td>Philosophy &amp; Religious Studies</td>
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<tr>
<td>Renewable Natural Resources</td>
<td>RNR</td>
<td>Renewable Natural Resources (School of)</td>
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<tr>
<td>Russian</td>
<td>RUSS</td>
<td>Foreign Languages &amp; Literatures</td>
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<tr>
<td>Social Work</td>
<td>SW</td>
<td>Social Work (School of)</td>
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<tr>
<td>Sociology</td>
<td>SOCL</td>
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<tr>
<td>Spanish</td>
<td>SPAN</td>
<td>Foreign Languages &amp; Literatures</td>
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<td>Swahili</td>
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<td>Foreign Languages &amp; Literatures</td>
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<td>Systems Science</td>
<td>SYSC</td>
<td>Computer Science</td>
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<td>Theatre</td>
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<td>University</td>
<td>UNIV</td>
<td>Academic Affairs (Office of)</td>
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<td>University College</td>
<td>UC</td>
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<td>University Studies</td>
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<td>Arts &amp; Sciences (College of)</td>
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<td>Veterinary Clinical Sciences</td>
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<td>Veterinary Medicine</td>
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<td>Veterinary Medicine (School of)</td>
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<td>Veterinary Science</td>
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<td>Veterinary Science</td>
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<td>Women's &amp; Gender Studies</td>
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**KEY TO COURSE INFORMATION**

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<td>★</td>
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4021 Cases in Accounting Policy (3) Prereq.: accounting major with senior standing. Case approach; integrates financial accounting, cost accounting, 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 3221. Core financial reporting concepts; core forms of 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 3211. 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, corporations, and shareholders.

4225 Research in Federal Income Taxation (3) Prereq.: registration in or grade of C or above in ACCT 3231; MS in accounting students or permission of department. Credit will not be given for this course and ACCT 7210. Techniques and procedures for research in federal income taxation, with respect to partners, corporations, and shareholders.

4231 Internship in Accounting (3) Prereq.: permission of instructor and department chair required. Grade of C or above in ACCT 3221 or 3233; MS in accounting students or permission of department. Independent audit of a faculty member and direct supervision of a professional in accounting. Grading based on the faculty member’s evaluation, a written report to the supervising professor, and a written report by the student.

4232 Advanced Auditing (3) Prereq.: grade of C or above in ACCT 3222 or 3232; 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.


4236 Environmental and Safety Auditing (3) Prereq.: grade of C or above in ACCT 3225. Study of “the green” audit and legal issues relative to environmental laws and safety regulations; emphasis on current laws and compliance auditing methodology; audit applications.

4244 EDP Auditing (3) Prereq.: grade of C or above in ACCT 3222 or 3232; 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 (3 credits) of learning experience in internal auditing 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.

4421 Government Not-for-Profit Accounting (3) Prereq.: grade of C or above in ACCT 3001. Credit will not be given for this course and ACCT 7210. Auditing not-for-profit organizations. Auditing governmental accounting systems, organizations, and budgetary concept.

5010 Petrochemical 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; establishment of reserves; exploration costs, undeveloped properties, drilling and development operations, production, and oil and gas revenues.

7021 Advanced Theory of Accounting (3) Prereq.: ACCT 3021 and consent of instructor; or ACCT 4022. MS in accounting students or permission of department. 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; cost-volume-profit analysis; control of funds and master budgets; distribution of costs; budgets and budgetary control; comparison of costs of business alternatives.

7201 Tax Aspects of Business Entities (3) Prereq.: ACCT 3021 or equivalent. Basic concepts of business entities, pass through entities, partnerships, corporations, tax consequences of the formation and operation of a business entity, and distributions to the owners.

7203 Federal Taxation of Estates, Trusts, and Gifts and Estates and Gifts (3) Prereq.: ACCT 7201. Income tax consequences of the sales and exchanges of equity interests, the redeemptions of equity interests, and business divisions and liquidations.

7204 Taxation of Corporations and Shareholders (3) Prereq.: ACCT 3021 or equivalent. Credit will not be given for both this course and ACCT 4221. Basic concepts of corporations, including creation, operation, ownership changes, acquisitions, liquidations, reorganizations, and consolidations; tax returns.

7210 Tax Research, Planning and Business Decision Making (3) Prereq.: ACCT 3021 or equivalent. Credit will not be given for both this course and ACCT 4221. Basic concepts of corporations, including creation, operation, ownership changes, acquisitions, liquidations, reorganizations, and consolidations; tax returns.

7224 Systems Auditing (3) Prereq.: ACCT 1122, 1131, 2222 or 3232, or permission of instructor. Credit will not be given for this course and ACCT 4224 or ISDS 4244. Selected topics in the control and audit of computer systems.

7232 Graduate Internal Auditing (3) Prereq.: consent of instructor. Primarily for MBA and MS students. Theory of internal auditing, efficiency, effectiveness, and economy audits.

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; class presentations.

7270 Statement and Report Presentation and Analysis (3) MS in accounting students or permission of department. Financial information systems, with emphasis on the role of financial information as it relates to other types of financial and nonfinancial information. Use of external accounting systems for decision making; cost-volume-profit analysis; control of funds and master budgets; distribution of costs; budgets and budgetary control; comparison of costs of business alternatives.
Leadership Lab (0) F,S

profession/officership and the military justice system of national security; evolution of strategy; management of Coreq.: ASST 4011, 4012.

Active Duty (3,3) F,S

opportunities; and the life and work of an Air Force junior behavior

leadership training through drill and ceremony, physical ASST 2001, 2002. 2 hrs. lab. Pass

Accounting Research I (3,3) F,S

accounting: Critical analysis of major figures and texts above in ACCT 2000 or 2001

Agricultural Policy (3) F

appraisal applied to rural property; tr

Agricultural Finance (3) F

treatment of management concepts for successful operation applied to a farm business; comprehensive and integrated implementation of marketing plans for agricultural economic principles are applied to the formulation and implementation of marketing plans for agricultural

Agricultural Price Analysis (3) S

Microeconomic analysis to problems in the marketing of food and agricultural products.

Agricultural Business Planning, Management, and economic principles applied to agricultural production, marketing, consumption, and policy problems.

Agricultural Economics (3) F

applying for credit. Farm and Rural Land Appraisal (3) F

and ECON 2000 and ECON 2010 or equivalent; treatment of management concepts for successful operation applied to a farm business; comprehensive and integrated consumption, and policy problems.

Agricultural Business Planning, Management, and Policy (3) S

Prereq.: degree of “C” or above in AGEC 2003 and ECON 2030 or ECON 2000 and ECON 2010 or equivalent; MATH 1431; 2 hrs. lecture; 2 hrs. lab. Applications of graduate mathematical, and advanced microeconomic analysis to problems in the production and marketing of food and agricultural products.

Agricultural Business Planning, Management, and Policy (3) F

Prereq.: degree of “C” or above in AGEC 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 strategies for agricultural commodities and branded food products; futures market trading principles.

Agricultural Business Planning, Management, and Policy (3) S

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AGRICULTURE & AGRI

General education courses are marked with stars (★).

1001 Introduction to Agriculture (1) F
- Course is limited to freshmen in the College of Agriculture or by permission of the instructor.
- Course includes lectures, discussions, and lab assignments.

2010 Land Use Planning and Management (1) S
- Prereq.: AGRO 2051 or equivalent. 3 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, and treatment, disposal, and disposal of disturbed lands.

2078 Environmental Soil Physics (3) Prereq.: AGRO 2051. Also offered as EMS 4077. The physical soil system; the soil components and their physical interactions; soil moisture, and water and air movement; effects of soil type and management on water quality.

2080 Advanced Crop Production and Management (3) S-AO. Prereq.: AGRO 2051 and BIOL 3060 or equivalent. Effect of cultural practices on 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.: writ- ten 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 Soils Science for Teachers (3) See EMS 6011.

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; development of plants; ecosystem structure, sustainable agriculture and animal/plant systems; plant nutrition, food additives, and food safety; plant breeding for immunity and fiber; biotechnology and its role in modern agriculture.

2011 Analysis of Environmental Issues (3) See EMS 2111.

3000 Principles of Crop Production (3) Prereq.: BIOL 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.

2090 Agronomy Seminar (1)
- Final project directed by professor.
- May be taken for a max. of 6 hrs. 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 1051 or equivalent. Field and 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 the practices involved in the production of corn, soybeans, and sugarcane.

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 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 Foreage Ecology and Management (3) S Prereq.: AGRO 2051. Focuses on the interaction of animal and plant systems in the production of forage crops, including soybeans, cotton, and sugarcane.

4022 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 plant nutrient uptake; diagnosis of deficiencies; use of lime and fertilizers; potential nutrient losses.

4025 Chemical and Mineral Properties of Soils (4) F Prereq.: AGRO 2051. 3 hrs. lecture; 2 hrs. lab. Also offered as EMS 4055. Chemical and mineralogical properties of soils; their effect on nutrient availability, soil structure, and soil quality.

4056 Microbial Ecology and Nutrient Cycling in Soils (4) S Prereq.: AGRO 2051. 3 hrs. lecture; 2 hrs. lab. Also offered as BIOL 4256 and EMS 4056. Microorganisms in terrestrial environments and biogeochemical 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.

2060 Plant 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.: AGRO 2051 or equivalent. 3 hrs. lecture; 2 hrs. lab. Also offered as HORT 4046. Methods of plant genetic improvement: hybridization, genetic manipulation, and variety development; selection for improved resistance, stress resistance; genetic engineering and biotechnology.

4070 Weed Science and the Environment (3) Prereq.: BIOL 1001, 1002, CHEM 1001, 1002. 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 herbicide action, fate of herbicides in the environment, and pesticide application, legal and regulatory issues.

4071 Weed Biology and Ecology (3) F Prereq.: BIOL 1001, 1002, or equivalent. 2 hrs. lecture; 2 hrs. lab. Study of general plant ecological principles, reproduction, dormancy and persistence, interference, allelopathy, herbicide resistance, and the impact of weed control mechanisms on weed and crop community structures.

4077 Environmental Soil Physics (3) Prereq.: AGRO 2051. Also offered as EMS 4077. The physical soil system; the soil components and their physical interactions; soil moisture, and water and air movement; effects of soil type and management on water quality.

4080 Advanced Crop Production and Management (3) S-AO. Prereq.: AGRO 2051 and BIOL 3060 or equivalent. Effect of cultural practices on 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.: writ- ten 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 Soils Science for Teachers (3) See EMS 6011.

AGRONOMY Seminar (1) May be repeated for credit. 1 hr. seminar; reports.

7040 Research Methods in Plant Science (3) S-E Prereq.: EKST 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 reporting; computer assisted manuscript preparation.

7041 Plant-Herbicide Physiology (3) F-E Prereq.: also for equivalent. 2 hrs. lecture; 2 hrs. lab. Lab project includes several techniques used in plant-herbicide physiology research. Physiological and physical interactions of herbicides with plant systems; 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 processes in the transformation of pesticides 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
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sem. hrs. of credit involved in evaluation of meat animals and their carcasses.

sheep, swine, and horses.

ment, and composition; patterns of tissue deposition in emphasis on dogs and cats; opportunities in the pet breeding, behavior, and management of companion animals; and consent of department head. 3 hrs. work experi

1011 Introduction to Animal Science (3) F S

4064 and EXST 7014; or equivalent. 3 hrs.

1027 Derby 2072 or BIOL 2153 and EXST 2201; or equivalent. 3 hrs.

lecture; 2 hrs. lab. Concept of animal breeding and genetics as they relate to farm animal homestay and their interaction with production; current laboratory techniques.

3050 Meats (4) F S

window. 4 hrs. lab. Directed individual study of a problem in biotechnology, nutrition, meats, reproduction, breeding and genetics, herd health, or marketing of farm animals.

3051 Meats (3-4) F S

Livestock and meat industry relationship; live animal and carcass compar-ison, slaughtering, processing, identification, and utilization of meat and by-products. 3 hrs. lecture; 2 hrs. lab.

3060 Companion Animal Health Maintenance and Disease (3) F Prereq.: ANSC 2060, BIOL 1201 and 1202, VET Med 1000. Diagnostic approaches to common diseases, diagnostic tests and tools used in animal health professions, etiology, clinical findings, diagnosis, prevention and treatment of specific diseases, and losses caused by disease and disorder.


4001 Parasite Effects on Animal Performance (2) F Prereq.: ANSC 2060; 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. Concept of animal breeding and genetics as they relate to farm animal homestay and their interaction with production; current laboratory techniques.

4040 Quality Assurance in the Food Industry (4) S Prereq.: DARY 4045.

4054 Reproductive Physiology of Farm Animals (3) S Prereq.: DARY 4045.

4050 Animal Biotechnology (3) F Prereq.: at least 8 hrs. of biophysical sciences or equivalent. Origin and technolo-phy; development of methods to increase the effi-ciency of growth, reproduction, and lactation; improvement of resistance to infectious disease; and regulation of animal reproduction.

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 regis-tration in ANSC 4009 or DARY 3010 or equivalent. 2 hrs.

lecture; 2 hrs. lab. General swine husbandry, and poultry sciences as animal or 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.

4086 Small Ruminant Production (3) S-E 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 small ruminants, reproduction, feeding, marketing, herd health, and other aspects of production.

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.

4002 Animal Science Proseminar (1) F 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 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.

3050 Meats (4) F S

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 physiology and endocrine control of mammalian gametes, with emphasis on breeding management.

7001 Experimental Methods (2) F Prereq.: credit or registration in ANSC 4009 or DARY 3010. Design and use of specific methods applied to animal science.

7006 Advanced Animal Genetics (3) F-O Prereq.: DARY 4045 or equivalent. 3 hrs. lecture; 2 hrs. lab. Advanced principles and techniques of genetic analysis and statistical methods applied to animal science.

7008 Advanced Animal Physiology and Laboratory Techniques (4) F-E Prereq.: credit or registration in ANSC 2060 or equivalent. 3 hrs. lecture; 2 hrs. lab. Physiological processes relating to domestic animal homestay and their interaction with production; current laboratory techniques.

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. 12 per sem.)

★ 1002 Introduction to Cultural and Social Anthropology (3) Origins and development of human culture through the rise of civilization.

★ 1003 Introduction to Cultural and Social Anthropology (3) Origins and development of human culture through the rise of civilization.

★ 1505 Introduction to Archaeology (3) Archaeological goals, methods, techniques, and interpretations; particular phenomena of cultural social organization; evolution; relationships of archaeology with other social, life, and earth sciences.

16 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 human-ity 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.

★ 3011 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.

3010 Introduction to Anthropological Linguistics (3) Cultural variation in language including classification of language and spread of language; historical linguistics; practice in phonemic and morphemic analysis of nonwestern languages.

3041 The Study of Folklore (3) Also offered as ENGL 3401. History of the study of folklore; methods of collec-tion, interpretation, and analysis of folklore materials; myth, folklore, 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 INDI 4002.

4003 Indian Civilization of the Middle and South America (3) Ancient Maya, Aztec, and Inca civilizations; modern Indian groups in Latin America. 4004 The North American Indians (3) Origin, distribu-tion, language, and culture of the aboriginal population.
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 organization of spaces, form and process, and development of skills in architectural design drawing and modeling.

1012 HONORS: Architectural Design II (6) Prereq.: ARCH 1001. 12 hrs. studio. Same as ARCH 1002, with special emphasis for qualified Honors students.

2001 Architectural Design IV (6) Prereq.: ARCH 2011; coreq.: ARCH 2021. 12 hrs. studio. An Honors course, ARCH 2102 is also available. Required field trip. Students are responsible for travel expenses associated with the course.


2102 HONORS: Architectural Design IV (6) Prereq.: ARCH 2003 or 2101; coreq.: ARCH 2006. 12 hrs. studio. An Honors course, ARCH 2102 is also available. Required field trip. Students are responsible for travel expenses associated with the course.

2145 Louisiana and Gulf Coast Building Culture (3) Prereq.: ARCH 1102 or 2101; coreq.: ARCH 2101. Emphasis on architectural and theoretical organization of space, form, function, and resolution of materials and structural systems.


2200 Architectural Design III (6) Prereq.: ARCH 2003; coreq.: ARCH 2002. Use of case studies to contrast the meanings of buildings designed in urban or rural environments.

2401 Appreciation of Architecture (3) Prereq.: ARCH 2001. 3 hrs. lecture, 6 hrs. studio. An Honors course, ARCH 2401 is also available. Required field trip. Students are responsible for travel expenses associated with the course.

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.

2402 Independent Study and Research (1-3) Prereq.: consent of instructor. May be taken for a max. of 9 sem. hrs. credit with consent of school director. Investigation of areas of interest not covered in other departmental courses.

2401 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 concerns in the design of buildings.

2402 Architectural Design V (6) Prereq.: ARCH 3001 or ARCH 3101, 3007. 12 hrs. studio. An Honors course, ARCH 3102 is also available. Required field trip. Students are responsible for paying travel expenses associated with the course.


Architectural History I (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 prehistoric to the 13th century.

Architectural History II (3) Prereq.: ARCH 3005. Selected topics in architectural history. May be taken for a max. of 6 hrs. of credit. Selected readings and/or research under the supervision of graduate faculty.

Theorization (3) 1st-12 per sem.: 3”*” grading. Credit will not be given for both this course and ARCH 7006.

ART • ART
Registration for all multiple-credit courses taken for over 9 credits in any one semester will require the prior permission of the instructor. Multiple credit courses are designated with an asterisk (*) following the course numbers.

General Education courses are marked with stars (★). GENERAL COURSES

1001 Introduction to Fine Arts (3) Fundamental problems of art in the 20th century. Multi-credit courses are designated with an asterisk (*) following the course numbers.

1012 Three dimensional Composition (3) 6 hrs. credit. Credit will not be given for both this course and ART 1011. An introduction to two-dimensional art and design skills using various drawing materials and techniques. Selected 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 means 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.

1013 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, shape, spatial organization, surface, and volume; using a variety of materials and techniques.

1012 Studio Art A broad (3) 6 hrs. studio. Studio art fundamentals within the specific medium of faculty members participating in Academic Programs Abroad.

1013 Special Topics in Studio Art Prereq.: 1 yr. of studio art department. May be taken for a max. of 6 hrs. of credit when topics vary. 6 hrs. studio. Directed studies with a visiting artist.

1030 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.

444 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.

4800 Performance Art (3) Prereq.: completion of studio art fundamental courses and permission of instructor. 6 hrs. studio. Multi-disciplinary “live” art studio projects 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 artists, composition, critique, and group projects.

8000 Thesis Research (1 per sem.): 3”*” grading. Credit will not be given for both this course and ARCH 7006.
4526 PressP Production Techniques (3) Prereq.: consent of instructor. 6 hrs. studio. Studio techniques related to production work in art media. Problems in graphic design: typsetting methods; primary printing processes, mechanical and digital systems.

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 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 2531 or equivalent. 2 hrs. lecture; 2 hrs. lab. Basic exploration of digital photographic technology and its application in communities; topics include: scanning, image processing and manipulation, digital filtering, and image 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. Professional use of visual communication through graphic design; problems in design theory and application.

4650 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 communcations, real time, virtual reality; sound and visual synchronization, communications standards, emerging technologies, and multimedia; special focus on the study and application of interactive multimedia theory.

4651 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 communication.

4654 Senior Graphic Design (3) Prereq.: consent of instructor. 6 hrs. studio. May not be taken concurrently with ART 4561. This course is not offered during the summer term. Design projects investigating problems of visual communication; individual and group projects with professional-level presentations.

4657 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, virtual reality, sound and visual synchronization, communications standards, emerging technologies, and multimedia; emphasis on study and application of multimedia design theory.

4674 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 hrs. of credit. Project or internship approved by graphic design faculty committee.

4745 Digital Imaging Techniques (3) Prereq.: consent of instructor. 6 hrs. studio. May be taken for a max. of 6 hrs. of credit. Digital imaging technology and its application in art and design areas: scanning, image processing, and manipulation, digital filtering, and image 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. May be taken for a max. of 36 hrs. of credit. 7553, 7554, 7555, 7556 Graduate Research in Design (3 each) Prereq.: consent of instructor. 6 hrs. studio each.

JEWELRY/METALSMITHING

2653 Basic Jewelry/Metalsmithing (3) 6 hrs. studio. Discussion of basic jewelry/metalworking techniques. Problems in jewelry/metalworking involving model making and the casting process.

4655* Advanced Jewelry/Metalsmithing (3) Prereq.: consent of instructor based on review of student's portfolio. 6 hrs. studio. May be taken for a max. of 18 hrs. of credit. Advanced studio work in one specific process such as: forging, forming, reproduction processes, advanced construction methods, advanced materials, construction techniques, clasp, chain construction. Emphasis on historical and contemporary aesthetic in art jewelry and metalsmithing.
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 photographic techniques, materials, and equipment; photographic practice; and introduction to basic photographic principles, utilizing special subject areas drawn from major themes in visual art.

2996 Intermediate Photography (3) Prereq.: ART 2995 and permission of instructor. 6 hrs. studio. An Honors course, ART 2996, will continue investigation of basic photographic principles, utilizing specific subject areas drawn from major themes in visual art.

2997 Honors 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.

2995 Introduction to Digital Art (3) Prereq.: ART 2996, 3996, and permission of instructor. 6 hrs. studio. Introduction to digital photographic tools and techniques.

2996 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.

4391 Special Studies in Photography (3) Prereq.: ART 3992, or 3993, 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.


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 Digital Photography (3) Prereq.: ART 3992, or 3993, 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. of credit. Advanced concepts, materials, and techniques used in contemporary sculpture. Students will study the development of current sculptural works; and make contemporary contributions to Western art.

1360 Introduction to Printmaking (3) Prereq.: ART 1011 and 1847. 6 hrs. studio. Basic printmaking concepts, materials, and processes in printmaking.

2332 Silkscreen Printing (3) Prereq.: ART 1506, 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 taken for a max. of 12 sem. hrs. of credit. An Honors course, ART 2361, is also available. Comprehensive investigation of printmaking concepts, materials, and processes in the direction of a major professor. Same as ART 2360, with special emphasis for Honors qualified students.

2363 Intaglio (3) Prereq.: ART 1506, 6 hrs. studio. Intaglio printmaking, including etching, 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 Books and Prints (3) Prereq.: ART 1506, 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 photographic application for contemporary printmaking.

3360 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 sem. hrs. of credit. This course is not offered for a max. of 6 sem. hrs. of credit. Advanced studies in printmaking, with a focus on developing an individual project.

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 printmaking, with a focus on developing an individual project.

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 techniques used in contemporary sculpture. Students will study the development of current sculptural works; and make contemporary contributions to Western art.

1440 History of Prints (3) Prereq. of prints from the 15th century to the present.

2470 Survey of 20th Century Art (3) Prereq. of painting from the 19th century to the present.

3411 Survey of Asian Art (3) Prereq. of painting from the 19th century to the present.

4401 History of Prints (3) Prereq. of prints from the 15th century to the present.

4413 Early Netherlandish and German Painting (3) Prereq. of painting from the 15th and 16th centuries.

4420 Studies in Art History (3) May be repeated for credit for a max. of 12 sem. hrs. of credit. Advanced work in a predetermined area of specialization.

4432 History of Modern Design (3) Aesthetic theory and stylistic evolution of decorative arts and crafts from the Industrial Revolution 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.

443 Early Renaissance Painting in Italy (3) The origins of early development of Italian Renaissance painting in Florence and Siena.

4424 High Renaissance and Mannerist Painting in Italy (3) The origins and development of Italian Renaissance painting, with a focus on the 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.

4441 8th Century European Art (3) An introduction to the art of the 8th century.

444 Japanese Art (3) History of Japanese painting, sculpture, architecture, and ceramics from prehistoric times through the early 20th century.

445 Indian Art (3) History of Indian painting, sculpture, and architecture from prehistoric times through the 10th century.

4444 Southeast Asian Art (3) History of architecture, sculpture, ceramics, and painting in Burma, Thailand, Cambodia, Indonesia, Vietnam, and Laos from the prehistoric period to 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, realismo; impressionism, post-impressionism, and symbolism.

4451 Early 20th Century European Art (3) History of painting and sculpture in European countries from 1900 to 1920; emphasis on Fauvism, Cubism, abstract expressionism, Surrealism, Futurism, Dada and Surrealism, German Expressionism, British figurative art, and the School of Paris.

446 American Art to 1900 (3) North American painting, architecture, and sculpture; and its relation to the development of the Impressionists to the Abstract Expressionists; emphasis on
the artists’ connections to social, political, and cultural developments.

4466 Introduction to 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 art; emphasis on indigenous, sculpture, and related arts throughout Latin America.

4488 Issues in Contemporary Art (3) Principal issues confronting contemporary artists and the sources and theories behind the issues.

4490 Art of the American South: 1560–1861 (3) History of architecture and the 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 other traditional media.

4880 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.

4882 Digital Art History (3) Survey of art and technology focusing on the use of computer art and digital, interactive, and network-based art forms from the 1970s to the present.

4844 New Media Art Theory (3) A reading intensive course that introduces students to theories and new forms of 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. Advanced topics in art history.

4499 Internship/Dissertation Seminar (3) Prereq.: ARTH 4440, 1441, and any 4 additional art history courses; open only 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) Critic; building of art criticism; concepts and methods of art criticism.

7410 Colloquium in Art Historical Methods (1) An introduction to the historical development of the discipline of art historical research and 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.

7411, 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.

7700 Methods of Instruction in College Life Science Laboratories (1) F Pass-fail grading. Philosophy and expected components and skills in life science laboratory education at the college level.

7741, 7742 Stellar Astrophysics (3,3) F,S ASTR 7741 is prerequisite for 7742. Also offered as PHYS 7741, 7742. Application of basic principles to study of stars; spectroscopy, stellar atmospheres, stellar structure, and stellar evolution.

7752, 7752 Galactic Astrophysics (3,3) F,S ASTR 7751 is prerequisite for ASTR 7752. Also offered as PHYS 7751, 7752. Application of basic principles to study of galaxies; interstellar media, galaxy structure and stellar motions in galaxies, and cosmology.

7777 Seminar in Astronomy and Astrophysics (1-6) V May be taken for a max. of 6 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) Prereq. ARTH 1440, 1441, and any 3 additional math or science courses. General inquiry-based math and science instruction; design and execution of lesson plans in elementary school under guidance of course instructor. May be taken for a max. of 3 hrs. of credit.

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.

3133 Mechanical Design for Biological Engineering (3) Prereq.: Grad of CE 2200 and credit or registration in ME 3333. 2 hrs. lecture; 3 hrs. lab. Design and analysis of systems for processing biological materials, with an emphasis on batch and continuous operation; application of computer-aided drafting.

3150 Biomedical Engineering (2) Prereq.: BASC 2010. Design and analysis of systems for processing biological materials, with an emphasis on batch and continuous operation; application of computer-aided drafting.

3152 Biological Engineering (2) Prereq.: consent 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 drawing and presentation; laboratory demonstration of biological engineering analysis.

2307 Elements of Landscape Construction (3) F,S Prereq.: MATH 1133, 1143, or BIOL 1113, 1123; 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 description, and boundary mapping.

2350 Experimental Methods for Engineers (3) Prereq.: BE 2352, 2 hrs. lecture; 3 hrs. lab. Introduction to experimental design; application of computer-aided drafting; 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 2352. 3 hrs. lab. Application of computer-aided drafting; laboratory demonstration 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) Prereq.: On-campus program only. Certification for 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) Prereq.: On-campus program only. Certification for six weeks full-time employment in an industry participating in the summer program. Selected engineering problems in an industrial environment.

3259 Professional Practice for Biological Engineers (2) Prereq.: Grad of C- or better in CE 2450. Ethical standards, technical communication, goal setting, problem solving and professional conduct, safety and risk, team dynamics, and proposal preparation.

3320 Mechanical Design for Biological Engineering (3) Prereq.: BIOL 2065, 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.

3343 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 degree requirements; transferred to other colleges as agriculture, and other horticultural applications of irrigation; design of irrigation systems from water source to application and uptake by plants; covers techniques from sprinkler to micro; friction loss in system components; irrigation scheduling; and auditing/monitoring system performance.

3381 Nonpoint Source Pollution Engineering (3) Prereq.: BE 2352 and EYEG 3110, 2 hrs. lecture; 5 hrs. lab. Water quality criteria and regulations for the agricultural community: production, treatment, and disposal of agricultural and food processing wastes; management of agricultural pollution; run-off; bi-product utilization; land application; wetland restoration; stream sampling and analysis; re-vegetation of disturbed sites.

3989 Special Projects in Biological Engineering (1-4) F,S Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit. Research projects, 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 project 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 completing 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 submit in BE 4290; design project completion.

4303 Engineering Properties of Biological Materials (3) V Prereq.: MATH 2065, 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 Biomaterials 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.: MATH 2065; BE 2350, and credit or registration in BE 4403. 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 an emphasis on small-scale processes; include biotechnology, fluid flow, thermodynamics, and transport phenomena in food and bioprocessing; unit operations, including free moisture, evaporation, drying, and aseptic processing.

4341 Biological Reactor Systems Design (3) S Prereq.: BIO 2065 and BE 4403, 6 hrs. lab. Fundamental principles 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 proearyotic cells.

4342 Sugar Processing (3) Prereq.: CE 2925; CE 2290 or CE 2290E or CE 3290 or CE 3290E or CE 3172. Processes used in the manufacture of raw and refined sugar; application of engineering principles to unit operations of evaporation, crystallization, extraction, solids handling and drying, centrifugation, clarification, and steam and power systems. 2 hrs. lecture; 3 hrs. lab.

4347 Sugar Factory Design (3) Prereq.: credit or registration in BE 4342. 2 hrs. lecture; 3 hrs. lab. P and diagrams for process control, instrumentation, control strategies; detailed process design of heat transfer equipment, fluid flow systems including non-Newtonian flow, prime mover requirements for steam and power use, and reticulation, materials handling systems, utility systems, and materials of construction.

4352 Transport Phenomena in Biological Engineering (3) S Prereq.: CE 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 analyses; 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; components; power transmission, hydrostatic transmissions, electrohydraulic servovalves, manual and automatic control applications.

4362 Agricultural Fluid Power Systems Design (2) 2 hrs. lecture; 3 hrs. lab. Principles and applications of geospatial technologies supporting precision agriculture/farming and planning for future management and monitoring.

4380 Aquacultural Engineering (3) Prereq.: senior standing. Engineering principles applied to aquatic systems; water chemistry; aquatic transportation; pumping plants; fish pond design; recirculating aquatic systems; water filtration; disinfection; aerating and deaerating.

4383 Natural Resource Engineering (3) Prereq.: CE 2200. Engineering analysis and design of natural resource control systems; water quality; aquatic plants; aquatic animals; food processing; and insect and wildlife relations.

4399 Advanced Instrumentation and Control (4-1) F,S,Su Prereq.: senior standing. Writing. The course report must be submitted by May 15. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Biological engineering practice and research.

4703 Agricultural Hydrology (3) V Prereq.: BE 2150 and MATH 2065. 2 hrs. lecture; 3 hrs. lab. Theory of measurement and feedback integration with applied design work with biological systems; focus areas include: agriculture; precision farming, environmental applications, biosensors, and biomedical measurement and control concepts.

4752 Advanced Transport Phenomena in Biological Engineering (2) S Prereq.: BIOL 2051. 2 hrs. lecture; 2 hrs. lab. Transport heat and mass transfer in biological materials and systems; mathematical description of active and passive cellular transport; engineering principles of chemical and biological reaction kinetics; energy balance and principles of conduction, convection, and radiation including 3-D diffusion, transient heat transfer, and convection analyses; energy transfer in engineering design and analysis; principle of mass transfer.

4989 Independent Study in Biological Engineering (1-3) Prereq.: BE 2352. Five weeks at Louisiana Universities Marine Center (LUMCON). For degrees in bioengineering 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.

4991 Introduction to Marine Zoology (4) S Prereq.: BIOL 2052 and 2059; permission of department. 2 hrs. lecture; 6 hrs. lab. Benthic life of the Louisiana continental shelf. Emphasis on selected topics in ecology, taxonomy, feeding habits, and reproduction of major groups.
4005 Science Research Methods (3) Prereq.: credit for EDCI 2500 and credit or registration in EDCI 3550. Also offered as OCS 4005. Biologically oriented. See ENTM 0155.

40105 Parasitology (3) F S Prereq.: BIOL 2153. Biology of animal parasites; emphasis on important human parasites. 4hrs. lab. Field and laboratory investigations in parasitology.

4105 Microbiological Laboratory (2) Prereq.: credit or registration in BIOL 4110. 6 hrs. lab. Laboratory techniques in growth, metabolism, and cellular control of microorganisms.

4123 Immunology (3) F Prereq.: BIOL 2051; BIOL 3909, or either 3909 or 4087. Survey of pathogenic organisms including bacteria, viruses, fungi, and parasites; host responses to pathogens.

4124 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) Prereq.: BIOL 4125 and concurrent enrollment or credit in BIOL 4124. Laboratory methods of immunology and microbial pathogenic biology.

4132 Eukaryotic Molecular Genetics (3) Prereq.: BIOL 2153 or equivalent. 3 hrs. lab. Introduction to molecular genetics, primers, and higher eukaryotes; gene structure and packaging in chromosomes; gene transcription and mRNA processing; transgenic mice; biomedical and genetic engineering; 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; organs, adaptive radiations, and ecology.

4142 Ornithology (4) S Prereq.: BIOL 2153 or RNR 4110. 3 hrs. lecture; 3 hrs. lab and field work. Procedure of department. Field service fee. Biology of birds; emphasis on ecology. Comprehensive studies of living birds.

4147 Animal Physiology (4) F Prereq.: BIOL 1202 and 1209; 2 hrs. lecture; 6 hrs. lab. Field service fee. Biology of fishes; evolution, classification, and ecology.

4148 Herpetology (4) S Prereq.: BIOL 1202 and 1209; 2 hrs. lecture; 6 hrs. lab and field work. Field service fee. Also offered as RNR 4145. Laboratory exercises in digestive physiology, natural history of amphibians and reptiles.

4149 Biology of Eukaryotic Microorganisms (4) Prereq.: BIOL 2051, 2 hrs. lecture; 4 hrs. lab. Molecular biology, physiology, genetics, morphogenetic and evolutionary development of the yeasts, molds, slime molds, algae, and protozoa.

4154 Invertebrate Zoology (4) Prereq.: BIOL 2153 or RNR 4110. 3 hrs. lecture; 3 hrs. lab and field work. Field service fee. Biology of the invertebrates; emphasis on ecological and evolutionary adaptations as they relate to the feeding habits and life cycles of these animals.

4155 Environmental Physiology (3) Prereq.: BIOL 2153. Physiological adaptations of animals to physical and chemical conditions of the environments.

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 3909 or 4087 or 4093. Physiology of neural and hormonal regulation in vertebrates.

4159 Human Disease (3) Prereq.: BIOL 3909 or 4087 or 4093. Not for graduate credit. Molecular cell biology of the pathogens, etiology, treatment and various human diseases.

4162 Food Microbiology (4) S Prereq.: BIOL 3909 or 4087 or 4093. Credit or concurrent enrollment in BIOL 4160 or equivalent and EXST 2201. 3 hrs. lab. Laboratory exercises in systems physiology.

4163 Industrial Microbiology (4) Prereq.: BIOL 4110; or equivalent. 3 hrs. lecture; 4 hrs. lab. Microbes used in industrial processes such as production of chemicals, antibiotics, and vitamins.

4164 Environmental Microbiology (3) Prereq.: BIOL 2153. Biochemical and physiological mechanisms adapting organisms to environmental factors; emphasis on the evolution of pathways 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 physiological levels are evaluated across many animal phyla. The ways in which diverse organisms perform similar functions are explained, revealing unifying themes among diverse systems. This course is only illuminated with a comparative perspective.

4172 Plant Microtechnique (3) Prereq.: BIOL 4024 or equivalent. 3 hrs. lab. Technique and practice in making permanent slides.

4177 Neurobiology (3) Prereq.: BIOL 3909 or 4160, and CHEM 2262 or BIOL 4160. Structure and function in nervous systems; molecular basis of behavior.

4190 Introductory Virology (3) V Prereq.: BIOL 2051. Viruses and their role in fields of biochemistry and molecular biology of viral infections.

4194 History of Biology (2) Prereq.: senior standing or equivalent. Historical perspective of applications and developments in biological sciences.

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.: BIOL 2051 or equivalent. 3 hrs. lecture; 2 hrs. lab. Modeling of biological systems; design and analysis of biological experiments; presentation of experimental data.

4246 Microbial Genetics (3) Prereq.: BIOL 2051 and 2153. BIOL 4087 or 4093 recommended. Microbial genetic principles: mutation, catabolism, recombinant, transduction, gene expression; molecular biology of bacteriophage and plasmids; recombinant DNA techniques.

4253 Principles of Ecology (3) F Prereq.: BIOL 1209 and MATH 1552 or EXST 2201. Fundamental parameters, processes, and interactions 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 (3) See AGRO/EMS 4056.

4261 Microbiology of Water, Sewage, and Industrial Wastes (4) Prereq.: BIOL 2051. 3 hrs. lecture; 3 hrs. lab. Field service fee. Microbiology of natural and modified environments.

4262 Marine Communities (3) Prereq.: BIOL 2153. Marine biology; ecology of benthic, planktonic, nektonic, estuarine, oceanic, 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 exercises 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 behavioral biology; 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 2051 or equivalent. 3 hrs. lecture; 4 hrs. lab. Consideration of the discovery, molecular and theoretical development, and future uses of the science of genetics. Critical analysis of the evolution of species and populations.

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; purifications, immunology, kinetics of enzymes; protein biosynthesis; nucleic acid chemistry; properties and restriction mapping of plasmids and recombinant DNA; spectrophotometry, chromatography, electrophoresis, centrifugation, and radioisotopes.

4389 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 or EXST 2201. Also offered as RNR 4145. Techniques used to genetically engineer microorganisms; study gene expression and DNA modification, and identify organisms by specific genetic alleles. Laboratory exercises in the analysis of DNA and protein sequences.

4444 Seed Physiology (3) S Prereq. PH 4444.

4450 Molecular Regulation of Cell Function (3) F Prereq.: BIOL 4087 or 4093. CHEM 2262 or 2462. BIOL 3909 recommended. Molecular organization of eukaryotic cells; structure and function of proteins; molecular regulation of signal transduction and cell cycle.

4596 Biopolymers of Macromolecules (3) Prereq.: BIOL 4093 or BIOL 4024 or both. 3 hrs. lecture; 6 hrs. lab. Structure and function of biological macromolecules; mechanisms of protein expression; secondary and tertiary structure of proteins; computer analysis of DNA and protein sequences.
7270 Seminar in New Developments in Business

7420 Financing and Legal Issues for New Ventures (3)
Insight into financing new ventures and investing in companies in the early stages of qualifying, and analyzing deals; negotiating, structuring, and pricing; creating value; realizing value through various kinds of exit from business. Focus on current projects taken from new actual financing situations; structuring of venture capital; the process of making investments in emerging companies.

7470 Family Business Management (3)
Key issues and conflicts facing individuals and families involved in business relationships; factors in the family; personal and business management; career planning; professional support; survival skills as a son or daughter in a family business.

7480 Franchise Development (3) Important factors in starting and managing a new franchise; characteristics of franchisor and franchisee; evaluation of franchising opportunities; legal aspects of franchising; development of appropriate strategies. Development of franchising business plan to include marketing, management, financial planning, and operations manual outline.

3104 Engineering Management and Entrepreneurship Laboratory (3) F
Projects on cases and projects taken from actual financing situations; structuring of venture capital; the process of making investments in emerging companies.

3105 Consulting Field Project (3) E
Emphasis on experiential approaches that provide a plan to include marketing, management, financial planning, and operations manual outline.

3106 Independent Study in Entrepreneurship (1.5) S
Prereq.: departmental approval. May be repeated for a max. of 6 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-business ventures.

3107 Thesis Research (1-2 per sem.) A
May be taken for a max. of 12 per sem. Credit will not be given for this dissertation Research.

3108 Dissertation Research (1-2 per sem.) A
May be taken for a max. of 12 per sem. Credit will not be given for a dissertation.

3120 Operations Management (3) E
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.

3121 Process Dynamics (3) S

3122 Mathematical Modeling of Chemical Engineering Systems (3) F,S
Prereq.: MATH 1550 or 2090. Detailed study of a model system that illustrates as applications of chemical engineering modeling equations.

3125 Process Design (4) S
Prereq.: CHEM 2060; EVEG 2500. Detailed study of a model system that illustrates as applications of chemical engineering modeling equations. Also offered as CHEM 3210. Introductory chemical thermodynamic concepts extended to heterogeneous systems and applications of these concepts to real world problems.

3127 Chemical Engineering Thermodynamics (3) F
Prereq.: CHEM 2171. Basic concepts and chemical engineering applications of thermodynamics; emphasis on flow processes and real gas thermodynamics.

3128 Beyond Homogeneous Equilibrium (3) S
Prereq.: CHEM 3101 and 3173. Application of optimization techniques to the design of chemical processes.

3132 Unit Operations Laboratory (3) S
Prereq.: CHEM 3104 and credit or registration in CHEM 4151. 1 hr. lecture; 3 hrs. lab. Unit operations analyzed as applications of chemical engineering fundamentals and transport sciences; use of these principles in design calculations.

3135 Process Design (4) S
Prereq.: CHEM 3101 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.

3190 Chemical Reaction Engineering (3) F
Prereq.: CHEM 3102 and 3173, or equivalent. Credit will not be given for both CHEM 3100 and 4190. Basic principles of reactor design; selection of best design alternatives; achievement of optimum reactor operation.

3198 Process Dynamics Laboratory (3) S
Prereq.: CHEM 4151 and credit or registration in CHEM 4151. Principles and practices of process dynamics and automatic control; mathematical modeling of process dynamics, feedback control, and feed forward control.

4120 Computer Technology for Chemical Engineering Systems (3) F
Prereq.: CHEM 1550. Introduction to operating systems, programming techniques, and software packages used in the solution of chemical engineering problems.

4172 Process Design (4) S
Prereq.: CHEM 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.: CHEM 3102 and 3173, or equivalent. Credit will not be given for both CHEM 3100 and 4190. Basic principles of reactor design; selection of best design alternatives; achievement of optimum reactor operation.
scientific and engineering principles in processes such as catalytic cracking, reforming, coking, alkylation, isomerization, and polymerization on applied catalysis and its impact on engineering design.

4205 Technology of Petrochemical Industry (3) Prereg.: CHE 4151 or credit in CHEM 4172. Principles of petroleum- and coal-based chemicals; application of scientific and engineering principles involved in the production of hydrogen, alcohols, olefins, ketones, polyolefins, rubber, and other polymers; emphasis on catalysis by transition-metal complexes.

4210 Introduction to Industrial Pollution Control (3) Prereg.: credit or registration in CHE 4190. Principles of the industrial utilization of heterogeneous catalysis; topics include absorption phenomena, methodological aspects, characterization, and evaluation of catalysts, diffusion and reaction in porous catalysts, and a survey of major industrial processes.

4221, 4222 Senior Research (1-2) Prereg.: credit or registration in 3102, 3104, and 5173, in a max. of 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).

4233 Introduction to Digital Control of Processes (3) Prereg.: CHE 3102 or equivalent introductory course in transport science. Quantitative application of chemical engineering principles to optimization of control systems from effluents, with emphasis on industrial process effluents; currently available techniques for controlling air and water emissions; concept of pollution control through basic process alterations developed by specific examples.

4260 Chemical Engineering (3) Prereg.: credit in CHE 4190 or equivalent. Application of chemical engineering fundamentals to microbiological and biochemical processes. Problems peculiar to industrial operations involving microbial processes; growth conditions and requirements, metabolisms, product separations, enzyme catalysis, immobilization, and aseptic operations.

4263 Environmental Chemodynamics (3) Prereg.: CHE 3102 or equivalent introductory course in transport science. Environmental chemodynamics: basic equilibrium, reactions, transport processes and related models for anthropogenic substances across natural interfaces (air-water, land-water), and from contaminated boundary regions.

4270 Processing of Advanced Materials (3) Prereg.: CHE 3102 or equivalent introductory course in transport science. Treatment of coupled chemical reactor 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) Prereg.: CHE 3102 or equivalent introductory course in transport science. Chemical engineering principles applied to processing, handling, and applications of nanomaterials. Emphasis is given to the methodological and practical solutions of the problems in the area of nanotechnology.

4274 Environmental Engineering (3) Prereg.: CHE 3102 or equivalent introductory course in transport science. Principles of environmental engineering applied to wastewater, air pollution, solid waste management, and water resource systems.

4275 Chemical Engineering (3) Prereg.: CHE 3172 and CHEM 3491. Solution and solid-state properties of high polymers; microstructure of polymer chains and effects on macroscopic physical properties of the final plastics.

4296 Development of Mathematical Models (3) Prereg.: ACT mathematics score of at least 21 or eligibility for MATH 1021. For those students whose curricula require only one introductory course in mathematical methods, this course may be taken as a preparatory course for CHEM 1201. A survey of chemical theory and principles with emphasis on the role of mathematics in the field.

4297 Computer Aided Process Control (3) Prereg.: credit in CHEM 1202, or CHEM 1201 with consent of instructor. May be taken for a max. of 6 hrs. of credit with consent of instructor. One or more phases of advanced chemical engineering principles may be taken for a max. of 6 hrs. of credit with consent of department.

4300 Technology of Petrochemical Industry (3) Prereg.: credit in CHE 4151 or credit in CHE 4172. Development of Mathematical Models (3) Prereg.: ACT mathematics score of at least 21 or eligibility for MATH 1021. For those students whose curricula require only one introductory course in mathematical methods, this course may be taken as a preparatory course for CHEM 1201. A survey of chemical theory and principles with emphasis on the role of mathematics in the field.

4302 Technology of Petrochemical Industry (3) Prereg.: credit in CHE 4151 or credit in CHEM 4172. The 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 non-steady-state catalytic processes.

4304 Process Synthesis (3) Techniques of optimization including analytical methods, linear and nonlinear programming, geometric and dynamic programming, and variational methods; application of methods to problems of interest to chemical engineers.

4305 Distillation and Other Separation Processes (3) Mathematical models, phase equilibrium, and calculation procedures related to design and behavior of distillation columns, absorbers, extractor-settlers, etc.; emphasis on computer techniques.

4312 Advanced Chemical Engineering Analysis (3) Prereg.: CHEM 7110 or equivalent. May be taken for a max. of 6 hrs. of credit with consent of department. Chemical engineering analysis, such as perturbation methods, matched asymptotic expansions, vector and tensor calculus, and numerical techniques, will be treated in the course.

4313 Advanced Chemical Engineering Thermodynamics (3) Prereg.: CHEM 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.

4332 Advanced Chemical Engineering Fluid Mechanics (3) Prereg.: CHEM 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.

4334 Advanced Chemical Engineering Heat Transfer (3) Prereg.: CHEM 7140 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 mass transfer.

4336 Advanced Chemical Engineering Mass Transfer (3) Prereg.: CHEM 7140 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 rotating systems.

4724 Catalysis (3) Prereg.: CHEM 7140 or equivalent. Heterogeneous catalysis; adsorption phenomena, physical methods, solid state spectroscopies, and reaction mechanisms as applicable to fundamental and industrially significant processes.

4747 Chemical Kinetics and Reaction Mechanisms (3) Prereg.: CHEM 7140 or equivalent. Gas-phase reactions and modern approach to deduction of reaction mechanism; chemical process heat transfer; phase change and moving boundary problems; heat transfer mechanisms, natural and forced convection, radiation, and mass transfer.

4753 Advanced Chemical Engineering (3) Prereg.: CHEM 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 rotating systems.

7542 Catalysis (3) Prereg.: CHEM 7140 or equivalent. Heterogeneous catalysis; adsorption phenomena, physical methods, solid state spectroscopies, and reaction mechanisms as applicable to fundamental and industrially significant processes.
2262 Organic Chemistry (3) Prereq.: CHEM 2661, Continuation of CHEM 2661. Credit will not be given for this course and CHEM 2662.

2364 Organic Chemistry Laboratory (2) Prereq.: CHEM 2661 and CHEM 2662 or credit or registration in CHEM 2662 or 2664. 4 hrs. lab. Same as CHEM 2664. 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 1201 or CHEM 1422. Credit is not given to students who have received credit for CHEM 2461. This course should be taken by well-prepared students with a special interest in chemistry. Credit will not be given for this course and CHEM 2006 or CHEM 2008.

Prereq. of structural analysis and synthesis in organic chemistry.

2462 HONORS: Organic Chemistry II (3) S Prereq.: Prereq.: CHEM 2461. Credit will not be given for both this course and CHEM 2462.

Continuation of CHEM 2461.

2463 HONORS: Organic Chemistry Laboratory (2) S Same as CHEM 2664; primarily for chemistry majors. Laboratory usage deposit.

2900 Research Internship (1-2) Prereq.: CHEM 1201 or 1431; 4 hrs. lab. Credit for this course; 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.


3491 Physical Chemistry I (3) Prereq.: MATH 2057 or PHYS 2012 or 2090; PHYS 2012 or 2012; and CHEM 2007 or 1242; all three courses with a grade of "C" or better. Principles of physics with emphasis including quantum mechanics, kinetics, and thermodynamics.

3492 Physical Chemistry II (3) Prereq.: CHEM 3491. Continuation of CHEM 3491.

3493 Physical Chemistry Laboratory (3) Prereq.: PHYS 2012 or 2090; CHEM 1212 or 1431; and credit or registration in PHYS 2012 or 2090. 5 hrs. lab. Laboratory usage deposit. Selected experiments to accompany physical chemistry.

3900 Chemical Problems -I (3, C) Coreq: CHEM 3942. May be taken for a total 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.


4004 Seminars in Teaching Secondary School Science (3) See BIOL 4004.

4005 Science Research Methods (3) See BIOL 4005.

4010 Macromolecular Systems I (4) Prereq.: CHEM 2662 and 3001; 4 hrs. lab. Principles of large molecules and polymeric materials: physical states, morphology, strength, processing; synthesis and biochemistry of modern and classical methods for molecular characterization.

4510 Environmental Chemistry (3) F Prereq.: CHEM 2001 and 2002 or credit in 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) Prereq.: CHEM 2292 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, 2003 or 2006 and credit or registration in CHEM 2492. Molecular analysis, NMR, IR, and UV spectroscopy, chromatography, thermal analysis, and combination of techniques.

4553 Instrumental Characterization of Organic Compounds II (3) Prereq.: CHEM 2492 or 2003, and 4552. 6 hrs. lab. Laboratory usage deposit. Applications of molecular analysis.

4562 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.

4565 Advanced Organic and Inorganic Laboratory (3) Prereq.: CHEM 2900 or equivalent. 1 hr. lecture; 6 hrs. lab. Laboratory usage deposit. Organic and inorganic syntheses and applications of modern techniques and modern characterization techniques.

4770 Advanced General Inorganic Chemistry (3) Prereq.: credit in CHEM 3492 or BIOL 4001. Concepts of coordination chemistry, biochemistry, and physical methods used in bioinorganic chemistry, and concepts of quantum chemistry, molecular orbitals, and applications in bioinorganic chemistry.

4771 Foundations of Inorganic Chemistry (3) Prereq.: CHEM 3492 or BIOL 4001. Concepts of coordination chemistry, biochemistry, and physical methods used in bioinorganic chemistry, and concepts of quantum chemistry, molecular orbitals, and applications in bioinorganic chemistry.

4772 Introduction to Mathematical Chemistry (3) F Prereq.: MATH 2057 and credit or registration in CHEM 3492. Mathematical methods of chemistry, with application to selected chemical problems.

4925 Introduction to Quantum Chemistry (3) V Prereq.: CHEM 3492 and MATH 2057. Basic ideas of quantum mechanics; application to atomic and molecular structure.

4926 Chemical Thermodynamics (3) V Prereq.: CHEM 2262 or 2462 and 3492. Principles of macroscopic thermodynamics and application to systems of chemical relevance.

4929 Introduction to Statistical Thermodynamics (3) V Prereq.: CHEM 3492 and MATH 2057. Introductory quantum and classical statistical thermodynamics of some simple systems at the atomic and molecular level.

6001 Chemistry Instruction Through Demonstration and Experience (5) Prereq.: one year of college chemistry, 2 hrs. lecture. Coreqs: 5 hrs. lecture; 12 hrs. of credit will be given in this course.

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-Y for elementary and middle school teachers. An introduction to laboratory research methods in modern chemistry.

6011 Seminar in Current Developments in Chemistry (1-3) Su only. Prereq.: CHEM 2007 or 1242 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 taken 4 times.

7010 Macromolecular Systems III (3) F Prereq.: CHEM 4010. Introduction to representative classes of macromolecules, methods of physical characterization 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, block copolymers, and polymeric membranes; quantum chemistry of critical micelle formation; polymer nanocomposites and nanotechnology related materials.

7251 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 mechanism studies; modern experimental techniques.

7252 Elemental Analysis (2) V Modern analytical methods, ultraviolet, visible, infrared, mass spectrometry, NMR spectroscopy, and computer use in chemical analysis. 7253 Instrumental Analysis (3) V Modern analytical methods, ultraviolet, visible, infrared, mass spectrometry, NMR spectroscopy, and computer use in chemical analysis. 7254 Analytical Methods (3) V Modern analytical methods, ultraviolet, visible, infrared, mass spectrometry, NMR spectroscopy, and computer use in chemical analysis. 7255 Analytical Methods (3) V Modern analytical methods, ultraviolet, visible, infrared, mass spectrometry, NMR spectroscopy, and computer use in chemical analysis.
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.

3201 Traditional East Asian Literature (3) Taught in English; knowledge of East Asian languages not required. Also offered as JAPN 3001. Introduction to the genres, themes, and representative works of traditional Chinese and Japanese literature; emphasis on critical reading.
3209 Modern East Asian Literature (3) Taught in English; knowledge of East Asian languages not required. Also offered as JAPN 3002. 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. credit when topics vary. Interdisciplinary study of Chinese literary texts, covering such fields as literature, the arts, politics, religion, and society. All reading in English.
4915 Independent Work (1-3) May be taken for a max. of 6 sem. hrs. of credit. Permission of department required. Directed individual work on a topic chosen by student and instructor.
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), 8000, 9000; 1 (environmental); 2 (geotechnical); 3 ( mechanical); 4 (structural); 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 similarity; applications to pipe flows.
2250 Fluid Mechanics Laboratory (1) Prereq.: CE 2200 and CE 2720 or 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 pipes; viscosity; discharge coefficients.
2450 Statics (3) Prereq.: grade of "C" or better in MATH 1550, 1552 and PHYS 2101 required in CE 2200). 3 hrs. lab. Fundamentals of geotechnical and structural mechanics; force, movement, velocity, acceleration; Mekahn's law; friction, PH-redox, and conductivity measurements.
3400 Mechanics of Materials (3) Prereq.: Grade of "C" or better in CE 2250 or equivalent. Stress and strain, tension, 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 2200). 3 hrs. lab. Laboratory measurement of properties and strength of engineering materials and structural and machine elements.
3415 Mechanics of Materials Analysis (3) Prereq.: MATH 2055 and CE 2450 (for CE majors, a grade of "C" or better is required in CE 2400). 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 2250. Analysis of traffic characteristics; roadway capacity; design of highways; route location, traffic operations, and signalized intersections.
3700 Engineering Materials Laboratory (1) Prereq.: credit or registration in CE 3400 or equivalent. 3 hrs. lab. Design and properties of concrete and asphalt materials; cement chemistry; hydration; strength; durability; concrete testing.
3740 Independent Studies in Civil Engineering (3) Prereq.: senior standing, English proficiency, and ENG 2000 (unless RITC-English is equivalent 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 ECECE majors, a grade of "C" or better is required in CE 2200). Water movement from arrival on land surface until it reaches the ocean and the sea; the analysis of the hydrologic cycle; runoff of rainfall, mass curves, and other statistical methods of hydrologic engineering.
4250 Ground Water (3) Prereq.: CE 2200 (for CE and EGECE 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 Hydraulic Structures (3) Prereq.: EGECE 2052, Farm Planning 500, or equivalent. Design of hydraulic structures; flood control and stormwater systems; wave action, currents, sediment movement; environmental forces due to waves, currents, and winds; offshore or coastal geotechnical properties, vertical and lateral pile capacity; design principles for offshore pipelines and offshore platforms; engineering case studies.
4300 Geotechnical Engineering I (3) Prereq.: CE 2250, and an equivalent surveying course. 2 hrs. lecture; 3 hrs. lab. Understanding the fundamentals of geotechnical engineering; design and analysis of foundations; retaining structures, and slopes; selected topics on soil improvement and vibration; emphasis on computer utilization.
4310 Geotechnical Engineering II: 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 or coastal geotechnical properties, vertical and lateral pile capacity; design principles for offshore pipelines and offshore platforms; engineering case studies.
4400 Principles of Steel Design (3) Prereq.: CE 3415, Principles of reinforced concrete, and plastic and elastic design, critical comparison of specifications with actual practice.
4410 Principles of Reinforced Concrete (3) Prereq.: CE 3415. Working stress and ultimate strength theories as applied to concrete beams (reinforced and prestressed), column; slabs, and footings; experimental data and current design specifications.
4420 Principles of Prestressed Concrete (3) Prereq.: CE 4410. Analysis of prestressed concrete structural elements; full and partial prestressing; service ability and strength requirements; code criteria for bridges, buildings, and other structural applications.
4450 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; design methods and specifications governing the design of sawn lumber, plywood, and glulam timber structures and structural components.
4470 Geotechnical Engineering (3) Prereq.: CE 4450, 4440 and 4410, or equivalent. Fundamental principles applied to foundation design, analysis, and design of foundations; introduction to advanced design procedures for geotechnical engineering problems using mainframe and microcomputer software.
4475 Indeterminate Structural Analysis (3) Prereq.: CE 3415. Analysis of statically indeterminate structures; methods of consistent deformations, elastic energy, virtual work, force method; distribution, moment distribution, and matrix formulations.
4480 Advanced Mechanics of Materials (3) Prereq.: CE 3400 and 3415 or equivalent. Methods of consistent deformations for beams and columns; statically indeterminate problems; design strategies for life safety and damage mitigation.
4485 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 specific classes of physical problems; matrix representation of stress, strain, and material relations; principle of virtual work, discrete finite element models of continuum; finite element formulations of basic finite element algorithms, and solutions of physical problems by using existing finite element computer programs.
4486 Design of Bridges (3) Prereq.: CE 4410, CE 4470, 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 AASHTO; bridge rating; load rating of bridges, and on-bridge design engineering 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. Surveying, simultaneous conveyances, subsurface surveys, flood plain management, state plane coordinates, solar azimuths, horizontal and vertical curvature; surveying laws and grids.
4530 Control Surveying with GPS (3) Prereq.: CE 3500 or equivalent surveying course. 2 hrs. lecture; 3 hrs. lab. Introduction to surveying and computer applications; capability of using satellite positioning system (GPS) receivers to calculate positions and to evaluate results; topics include: calculation of horizontal and vertical coordinates, 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 requirement in Louisiana. Procedures and laws governing surveying of boundaries; emphasis on U. S. Land Survey System and the boundaries of states and counties.
4560 Engineering Applications of Remote Sensing (3) Prereq.: consent of instructor. 2 hrs. lecture; 3 hrs. lab. Photographic and digital techniques 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 3500 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 complex design problems; design of horizontal and vertical alignment, intersections, interchanges, and other transportation facilities; design of the design of horizontal and vertical alignment, intersection, interchanges, and other computer applications to design problems.
4605 Geometric Design of Highways and Airports (3) Prereq.: CE 3500 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 complex design problems; design of horizontal and vertical alignment, intersections, interchanges, and other computer applications to design problems.
and applications of Intelligent Transportation Systems (ITS). 7615 Advanced Highway Design and Traffic Safety (3) S/E Preqe.: permission of department. 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 subjects 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 civil engineering areas.

8000 Thesis Research (1-12 per sem.) 5’/4’/4. 9000 Dissertation Research (1-12 per sem.) 5’/4’/4. CLASSICAL STUDIES ▲ CLST

General education courses are marked with stars (★). All courses are 3 credits unless otherwise noted.

2070 Ancient World in the Cinema (3) An examination of how the cinema has interpreted the history and myths of Greece and Rome.

2800 Women and 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 of Alexander. 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 or Latin required. Credit will 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 origins to the death of Marcus Aurelius.

2015 The Archaeology of Ancient Greece (3) Also offered as ANTH 3015. Maternal culture of the great civilization of ancient Greece; includes Neolithic Age, Bronze Age (Mycenaean-Minoan), Classical Age, and the Age of Alexander the Great.

2030 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 readers.

3032 Greek and Roman Tragedy in English Transla- tion (3) Taught in English; knowledge of Greek and Latin languages not required. Origins and growth of tragedy as an art form; problems in staging; social nature of comedy in the ancient world. 2040 Greek and Latin Drama in English Transla- tion (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.

4000 Comparative Mythology (3) prep.: 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 (★). All courses are 3 credits unless otherwise noted.

1080 Survey of Communication Science and Disorders (3) For students interested in the study of language, Anatomical, physiological, and behavioral bases of normal and disordered verbal behavior.

2050 Introduction to Language (3) Linguistic study of the principal interrelated levels of language structure: phonetics, phonology, morphology, syntax, semantics; related topics such as writing systems and dialects.

2051 Introduction to Manual Communication (4) Three hrs. lecture; 2 hrs. lab. Both theory and research in sign language. Can also be completed as ENLG 2051. 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 professions, 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 Audiology (4) prep.: COMD 2050, 3 hrs. lecture; 1 hr. lab. Also offered as LING 4150. Principles of audiology; description and classification of sounds; transcription at different levels of detail; production and perception.

4153 Audiology and Speech and Hearing (3) prep.: COMD 2050 or equivalent. Also offered as LING 4153. Production, transmission, and perception of speech acoustics in communication disorders; acoustics of speech and psychoacoustics.

4190 Introduction to Audiology (3) prep.: COMD 2081; 4151. Interaction of hearing and speech, effects of hearing loss on speech, and development, types of hearing loss and evaluation processes.

4250 Anatomy and Physiology of Speech and Hearing (3) prep.: COMD 2050. Functional anatomy of structures beginning with the ear and related systems.

4380 Speech and Language Development (4) Also offered as LING 4380. 3 hrs. lecture; 1 hr. lab. Language acquisition and behavior, language development, verbal learning, and structural properties of speech; theories of language development in the normal child.

4381 Basic Audition Disorders (3) prep.: COMD 2081, 4151. Introduction to audiological assessment, evaluation, and treatment of disorders.


4383 Basic Voice Disorders (3) prep.: COMD 4381 or equivalent. For clinical practice take COMD 4683, 4684, or 4685. Stuttering and allied disorders; emphasis on systematic evaluation and treatment.

4384 Basic Voice Disorders (3) Introduction to the physiology, dynamic characteristics and measurement of fundamental frequency, and diagnostic and differential diagnosis of voice disorders of functional and abusive etiologies.

4490 Audiologic Assessment (3) prep.: COMD 4250, 4150. Practice and application in pure-tone and speech audiometry; middle-ear measurements, differential diagnostic; physiological tests including auditory evoked potential.

4590 Audiology Rehabilitation in Children (3) prep.: COMD 4153, 4190. Methods of management including medical, social, and educational rehabilitation. Hearing training, amplification issues, early identification and intervention, and educational placement.

4591 Clinical Practice: Therapeutic Tech- niques (1-6 each) prep.: COMD 4682 and credit in core course related to practicum-specific speech, language and hearing disorders. May be taken for a max. of 8 sem. hrs. of credit each. On- and off-campus practica in speech, language, and hearing disorders.

4594 Clinical Practicum in a Medical Environment (1-4) prep.: consent of instructor. Speech and/or audiology practicum in a hospital or medical practitioner’s office.

4750 Independent Research in Speech Science or Lin- guistics (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 3 hrs. undergraduates or graduate credit when topics vary.

4752 Survey of Adult Neurogenic Communication Disorders (3) prep.: COMD 2081, 3 hrs. lecture; 2 hrs. lab. Both theory, educational and cultural aspects, and reading and transmitting messages in communication disorders. American Sign Language as well as English-based systems.

4753 Research Design in Communication Science and Disorders (3) prep.: EXST 4001, 4002 or equivalent. Empirical research design problems in speech and hearing; emphasis on basic measurement, and statistical analysis.

4791 Hearing Science (3) prep.: COMD 4250. Auditory transmission and processing from the outer ear to the cortex; including psychophysical phenomena germane to human audition.

4792 Hearing Aids: Electroeacoustics and Fitting (3) prep.: CD 7119, 7409. Basic principles of hearing aids, earmold acoustics, selection and evaluation procedures, special devices, and problems in communica- tion and speech processing.

7280 Neuroanatomical Bases of Speech and Hearing (3) prep.: BIOL 2190 and COMD 4250 or equivalent. Study of the neuroanatomy and physiology of the central nervous system as it relates to sensory/motor and cognitive processes underlying speech and hearing.

7361 Language and Learning Disorders (3) prep.: COMD 4382. Language disorders and the communicative
aspect of language; current research and treatment models for language intervention; relationship between language and learning disabilities, childhood and adult disorders, assessment and intervention strategies for spoken language; discourse analysis, theoretical foundations, second language acquisition, and development of a teaching syllabus; work with international students.

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 repeated for credit when topics vary. Selected topics in communicative disorders.

7757 Independent Research: Speech Science (1-3 Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. of credit. 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.

7758 Independent 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.

7759 Audiology (3) Prereq.: COMD 7490. Pathology of the Auditory System (3) Prereq.: COMD 7385 or 7684 or 7685. 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.

7771 Clinical Practice (1-6) 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 acade- dic 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 rehabilita- tion, early intervention, diagnostic audiology, oral-facial anomalies, neurological disorders).

7780 Experimental Phonetics (3) Prereq.: COMD 7191. Experimental Phonetics (3) Prereq.: COMD 7191. 3 hrs. lecture; 3 hrs. lab. Admission to PhD program required. Classic and contemporary readings about perception of sound. Acoustic and physiological speech models, signal detection theory, frequency processing, pitch perception, intensity processing, binaural hearing and temporal acuity. Communication Disorders (3) Prereq.: COMD 7191 and admission to doctoral program. Auditory system structure and function; physiological acoustics and psychoacoustic correlates.

7781 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.

7782 Advanced 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. For advanced graduate students who wish to pursue research on special topics exclusive of thesis or dissertation.

8000 Thesis Research (1-12 per sem.) $77U grading. 9000 Dissertation Research (1-12 per sem.) $77U 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, general aims and subfields of study in the human communication.

1010 Interpersonal Communication (3) Theories and research of human communication; one-to-one interactions.

1202 Introduction to Film (3) 4 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 Performance Literature (3) The study of literary techniques in reading, analysis, and performance of prose, poetry, and drama.

2060 Public Speaking (3) Theory and skills needed by the communication major in specific communication contexts, including various sign and symbol systems. Persuasive strategies employed in film industry; selected films screened and studied.
COMPARATIVE BIOMEDICAL SCIENCES

CBS

7001 Seminar: Comparative Biomedical Sciences (1-4) 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) Prereq.: consent of instructor. 2 hrs. lecture, 2 hrs. lab. Fine structure of animal cells and cell products; relationships of ultrastructural localization, identification, and function to normal and pathological conditions in animals and plants.

7106 Biomedical Electron Microscopy (4) 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 specific organs or organ systems of domestic, laboratory, or exotic species.

7603 Clinical Toxicology (3) S Prereq.: consent of instructor. Pathophysicsiology 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 7631 or equivalent. Actions and interactions 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 7631 or consent of instructor. Same as BIOL 7622 and ENV 7622. Identification and chemical structural features of carcinogens; role of free radicals in biology and pathology; molecular mechanisms; molecular genetics; procedural methods of gene analysis; 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 chemical toxicity in context with physiological, biochemical, and structural features of...
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 this course and IDS 1100 or LIDS 2031 or ESE 2000. An 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) Prereq.: 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 with MATLAB (3) Prereq.: MATH 1021 or placement in MATH 1022, 1451, 1501 or 1531. 2 hrs. lecture; 2 hrs. lab. Credit will not be given for this course and CSC 1450 or 2641 or 2651. Not for degree credit for computer science majors.

1250 Programming With Applications in Statistics (3) Prereq.: MATH 1021 or placement in MATH 1022 or 1451 or 1501 or 2641 or 2651. Credit will not be given for this course and CSC 1450 or 1253 or 1530 or IDS 3107. Fundamentals of problem solving.

4264 Intelligent Information (3) Prereq.: CSC 3412. Theorem proving and inference techniques, production systems and knowledge representation, nonmonotonic reasoning, natural language understanding, scene analysis, planning, game playing, and learning.

4446 Parallel Processing (3) Prereq.: consent of instructor. Basic concepts of parallel architectures and design. High-speed adders and multipliers, CPU concepts, instruction fetching and decoding, hardwired control, microprogramming control, processor organization, assembly language organization, assembly language programming techniques, CPU instruction sets and addressing modes.

4991 Undergraduate Research in Computer Science (1) Prereq.: CSC 3102; consent of department; admittance to Upper Division Honors Program. Individual research project under the supervision of the undergraduate research advisor. Writing and formal defense of a research thesis in computer science. Defense committee of three faculty members must be formed.

4999 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 and implementation of process management and resource management, deadlocks, memory management, secondary memory management, file management, I/O systems, Unix systems.

4304 Systems Programming (4) Prereq.: CSC 3102, 3390 or 4310. Batch process systems programs, their components, operating characteristics, user services and limitations; implementation techniques for multiprogramming, deadlock-free systems, multiprogramming, 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, 3390. Software requirements analysis; object-oriented design representation, programming methodologies; verification, validation, maintenance, and software planning.

4351 Compiler Construction (3) Prereq.: CSC 3412 or 3102 or 2532 or 3410 or equivalent. Language translation systems, language design techniques; emphasis on compiler implementing strategies, techniques for deriving, evaluating, and extending compiler implementation techniques.
7351 Advanced Compiler Design Theory (3) Prereq.: ELRC 4507 (or prior programming experience) and credit in an equivalent course numbered 3000 or above. Also offered as ELRC 4512. Advanced programming techniques; emphasis on structured programming, software and hardware interactions, graph algorithms, 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 the max. of 12 cr. 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 theory.

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 proficiency in computer languages. Advanced programming techniques using a high-level, structured language; data structures and computer systems software.

7080 Computer Architecture (3) Prereq.: CSC 7002 or equivalent. Introduction to the design of computer systems. Topics include computer organization, instruction sets, memory, arithmetic units, input/output, and control.

7101 Programming Language Structures (3) Prereq.: CSC 4103. Advanced study of specific 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 applicable languages.

7103 Advanced Operating Systems (3) Prereq.: CSC 4103. Concurrent programming: shared memory, communication, synchronization, and deadlock detection in distributed systems; design and analysis of operating systems; multiprocessor systems; and computer networks.


7135 Software Engineering (3) Prereq.: CSC 4103 or equivalent. Formal specification techniques, design techniques, software development methodologies, and software management; 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, 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 7153. Formal testing, validation and verification techniques; in-depth study of formal 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) F 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 Artificial Intelligence (3) Prereq.: CSC 4451 or equivalent. Automatic generation of LL (1), LR (1), LALR (1) parsers, syntax directed translation of high-level control structures, generalization of grammatic, local code optimization using directed acyclic graphs, loop optimization, global data flow analysis, and object-code optimization.

7370 Graph Algorithms (3) V Prereq.: MATH 4171 or equivalent. Graph layout algorithms; networks; application of network flow techniques; polynomial time algorithms and NP-completeness; graph searching; spanning trees and other problems; implementation and efficiency measures of the algorithms on different machines, and VLSI systolic algorithms.

7374 Computational Models for Mobile Robots (3) Prereq.: CSC 7350. Computational tools for design, analysis, and development of algorithms for robotic applications; existing computational paradigms, constraint representation and real-time modeling for robotic vision; image understanding, path planning, and autonomous navigation and sensor-fusion problems for mobile robots.

7375 Robot Vision (3) Prereq.: CSC 3102 or equivalent, and CSC 7350. Computational aspects of vision; utilization of techniques from computational geometry, combinatorics, probability theory, and artificial intelligence; visual recognition.

7390 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.

7391 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.

7420 Parallel and VLSI Computation (3) F Prereq.: CSC 4102. 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 7531. Introduction to data mining and knowledge discovery in databases; cleaning, statistical techniques, association rule learning; time series and spatial data mining techniques; visualizations and algorithms for data classification.

7443 Scientific Information Visualization (3) Prereq.: CSC 7300 or equivalent. Study of computer visualization techniques, principles, 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; study understanding; structure of domain dependent expert systems.

7446 Soft Computing (3) Prereq.: CSC 4446 or permission of instructor. Soft computing paradigms; neuro-computing and fuzzy set computing; fuzzy sets and fuzzy logic, neural computing, and evolutionary programming; applications in image processing, diagnosis and diagnosis assistance, in 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 commercial available retrieval systems, text content analysis, query processing models and current research problems.

7701 Sensor Networking Concepts (3) Prereq.: CSC 3102. Undergraduate sensor networking concepts, including fundamental 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.

7820 Introduction to Computer Communication (3) Prereq.: CSC 4103 or 4501 or 7501. Self-organizing sensor networks; querying, and data aggregation; routing; energy efficient communication; sensor network security.

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/Y” 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 courses.

1010 Construction Graphics and Numerical (3) Credit or registration in MATH 1550. 2 hrs. lab. Credit. 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 1020. Not open to construction management majors. Conceptualization of creation of design concepts; introduction to engineering drafting and USA Standards Institute standards; freehand sketching techniques used in solution of engineering problems; use of solid modeling software in design and design communication.

1050 Engineering Graphics for Architectural (1) Credit or registration in CM 1050. Lab. Credit will not be given for both this course and CM 1050. Not open to construction management and mechanical engineering majors.

1090 Introduction to Computer Communication (3) Prereq.: CSC 4103. Undergraduate programming techniques used in solution of creative design concepts; introduction to engineering drafting and USA Standards Institute standards; freehand sketching techniques used in solution of engineering problems; use of solid modeling software in design and design communication.
4302 Life Cycle Assessment (3) Prereq.: EVSC 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**

**EVIDENCE**

Admission to courses at the 3000-level and above is restricted to students formally admitted to a teacher education program. Formal admission includes 2.50 LSU 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 (*).
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.: EDCT 2040 and credit for or concurrent enrollment in 3 of the 4 math courses required for a teaching minor in secondary school mathematics. 3 hrs. lecture; 2 hrs. lab/field experience in multicultural settings; and emphasizes student thinking as well as illuminating the classroom process of learning mathematics and science and critical issues of student equity.

3625 Student Teaching in 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 Grades (12) Prereq.: concurrent enrollment in EDCT 5181. See Requirements for Student Teaching. 1 hr. lecture; 30 hrs. lab. Pass-fail grading.

3701 Assessment for Special Instructional Educational Practice (3) Prereq.: EDCT 2700 and admission to a Teacher Certification Program. 1 hr. lecture; 24 hrs. lab/field experience. Requires practical field experience with student(s) with disabilities in a school environment. Does not satisfy the student enrollment requirements for certification in 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.: EDCT 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 interdisciplinary procedures for identifying and implementing assessment.

3703 Instructional Practice for Students with Disabilities II (3) F Prereq.: EDCT 3702. 2 hrs. lecture; 2 hrs. lab. Advanced instructional methods, strategies, and materials for teaching students with mild to moderate learning and behavior problems; includes the use of explicit instructional methods in instruction; classroom management; and emphasis on reflective practice and making informed instructional decisions.

3712 Secondary Methods and Transition Planning in Special Education (3) S Prereq.: EDCT 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.: EDCT 3002 and concurrent enrollment in one of the following: BIOL 4003, CHEM 3003, ENGL 4203, FREN 4403, HIST 4403, MATH 4403, 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 EDCT 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.: EDCT 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 EDCT 4466. Critical issues in the nature of knowledge and learning in secondary subjects.

4005 Student Teaching in Grades 6-12 (9) Prereq.: EDCT 4003 and concurrent enrollment in EDCT 4004 and in one of the following: BIOL 4003, CHEM 3003, ENGL 4203, FREN 4403, HIST 4403, MATH 4403, or SPAN 4004. 1 hr. lecture; 24 hrs. lab/field experience in diverse multicultural settings. Student teaching experiences, including observation, participation, and a minimum of 180 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.: EDCT 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 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.


4030 Middle School Curriculum and Instruction (3) Principles and practices of middle grades education with emphasis on curriculum and instruction in middle-level educational settings. The process of building the teaching and learning cycle (assessing, planning, teaching, reflecting) into instruction of children in grades 1–3. 3 hrs. lecture; 24 hrs. lab/field experience in multicultural settings. Classroom interactions in secondary mathematics and science education understood as a process of constructing knowledge. Course emphasizes learning's language and emphasizes student thinking as well as illuminating the critical role of reflection and language in the construction of knowledge. Classroom interactions include classroom events that impact learning in mathematics and science and critical issues of student equity.

4382 Pedagogy in Grades 1-3 (Prereq.: HUEC 3355, HUEC 3359, 3361, 3483; 2 hrs. lecture; 3 hrs. lab/field experience in multi-level, multicultural settings. Instructional strategies and materials for children in grades 1-3.

4383 Assessment and Planning for Reflective Instruction: Grades 1-3 (Prereq.: HUEC 3355, HUEC 3359, 3361, 3381, 3482; 1 hr. lecture; 2 hrs. lab/field experience in multi-level, multicultural settings. The process of building the teaching and learning cycle (assessing, planning, teaching, reflecting) into instruction of children in grades 1-3.

3550 Classroom Interactions (3) Prereq.: BIOL/CEM/MATH/PHYS 1041 (or concurrent enrollment) and credit for or concurrent enrollment in HUEC 3355, 3359, 3361, and 3482. 2 hrs. lecture; 24 hrs. lab/field experience in multicultural settings. Classroom interactions in secondary mathematics and science education understood as a process of constructing knowledge. Course emphasizes learning's language and emphasizes student thinking as well as illuminating the critical role of reflection and language in the construction of knowledge. Classroom interactions include classroom events that impact learning in mathematics and science and critical issues of student equity.

4382 Pedagogy in Grades 1-3 (Prereq.: HUEC 3355, HUEC 3359, 3361, 3381, 3483; 2 hrs. lecture; 3 hrs. lab/field experience in multi-level, multicultural settings. The process of building the teaching and learning cycle (assessing, planning, teaching, reflecting) into instruction of children in grades 1-3.

4383 Assessment and Planning for Reflective Instruction: Grades 1-3 (Prereq.: HUEC 3355, HUEC 3359, 3361, 3381, 3482; 1 hr. lecture; 2 hrs. lab/field experience in multi-level, multicultural settings. The process of building the teaching and learning cycle (assessing, planning, teaching, reflecting) into instruction of children in grades 1-3.

4383 Assessment and Planning for Reflective Instruction: Grades 1-3 (Prereq.: HUEC 3355, HUEC 3359, 3361, 3381, 3482; 1 hr. lecture; 2 hrs. lab/field experience in multi-level, multicultural settings. The process of building the teaching and learning cycle (assessing, planning, teaching, reflecting) into instruction of children in grades 1-3.

3550 Classroom Interactions (3) Prereq.: BIOL/CEM/MATH/PHYS 1041 (or concurrent enrollment) and credit for or concurrent enrollment in HUEC 3355, 3359, 3361, and 3482. 2 hrs. lecture; 24 hrs. lab/field experience in multicultural settings. Classroom interactions in secondary mathematics and science education understood as a process of constructing knowledge. Course emphasizes learning's language and emphasizes student thinking as well as illuminating the critical role of reflection and language in the construction of knowledge. Classroom interactions include classroom events that impact learning in mathematics and science and critical issues of student equity.
multicultural settings and/or informal learning environments.

4606 Materials and Methods for Teaching Computer Science

40 hrs. in computer science or equivalent. 3 hrs. lecture plus field experience. Materials and methods for planning instruction in computer science.

4630 Materials and Methods for Teaching English as a Second Language (3) Prereq.: EDCI 1249 or equivalent. Specific teaching or practicum experience in a public school setting: periodic evening seminars.

7011 Social Issues in Educating Learners with Exceptionalities (3) Su Required field experience with student(s) with exceptionalities in a school environment. Exceptionality and special education; characteristics, educational needs, and instructional practice; current trends in issues and service provision.

7040 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.

7045 Learning and Behavior Principles Applied to Students with Exceptionalities (3) F S Prereq.: EDCI 2700 or equivalent. Development of intervention programs based on the principles of applied behavior analysis; emphasis on proactive strategies that promote learning and prosocial behavior.

7470 Consultation, Collaboration, and Co-teaching (3) Prereq.: EDCI 1249 or equivalent. Professional roles and practices in building cooperative and inclusive environments for education; emphasis on consulting teacher, collaborative consultation, and co-teaching.

7479 Student Teaching in Special Education: Mild/Moderate Disabilities (9) F S Prereq.: credit or registration in EDCI 4705, 1 hr. seminar, 30 hrs. lab. Practicum experience in building effective communications among educators, parents, and other professionals in providing education and other services to children with exceptionalities.

7479 Student Teaching in Special Education: Moderate/Severe Disabilities (9) F S Prereq.: credit or registration in EDCI 4705, 1 hr. seminar, 30 hrs. lab. Practicum experience in building effective communications among educators, parents, and other professionals in providing education and other services to children with exceptionalities.

7011 Administration and Supervision in Special Education (3) Prereq.: EDCI 7009 or equivalent. Direct Instruction Model and curriculum-based assessment.

7018 Strategic Instructional Models for Students with Disabilities (3) F Prereq.: EDCI 4701, 4702, 4703. Evaluation of research and teaching models that support the social and educational development of students with disabilities; the impact of federal and state programs on the classroom.

7019 Teaching Social and Functional Skills to Students with Disabilities (3) Su Prereq.: EDCI 4701, 4702, 4703. 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) An in-depth examination of the education of secondary/postsecondary transition for students with mild disabilities.

7033 Quality Assurance in Special Education (3) Prereq.: EDCI 7003, 7018. Quality assurance programs; implementation of Quality Assurance and Compliance Monitoring (QACM) models with students with disabilities; focus on the federal and state program requirements and quality assurance approaches prevalent in the field of disabilities.

7045 Teaching 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.

7046 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 in the classroom.

7070 Topics in Reading Education (3) Prereq.: EDCI 7105 or 7135 or consent of instructor. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Issues and practices in elementary through adult reading education.

7084 Studies in the Teaching of Elementary School Science (3) Prereq.: EDCI 7105 or 7135 or equivalent. Theoretical foundations, instructional skills, and materials for teaching elementary school science.

7091 Studies in the Teaching of Elementary School Mathematics (3) Techniques and materials for teaching elementary school mathematics; relationship between learning mathematics and student development.

7095 Studies in the Teaching of Elementary School Social Studies (3) Prereq.: EDCI 7105 or 7135. Study of teaching of elementary social studies.

7099 Studies in the Teaching of Elementary School Language Arts (3) Prereq.: EDCI 7105 or 7135. Study of teaching of elementary language arts.

7117 Teaching Reading to the Adult Learner (3) Hy Prereq.: EDCI 7135 or equivalent. Reading, 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.

7147 Studies in the Teaching of Secondary School Science (3) Prereq.: EDCI 3147 or equivalent; and science teaching experience. Emphasis on materials, evaluation of teaching practices, and science teaching skills for grades 6-12.

7149 Studies in the Teaching of Foreign Languages (3) Prereq.: EDCI 3147 or equivalent. Principles of language methods course and/or teaching experience; or consent of instructor. Principles and current research related to the teaching of foreign languages; specific emphasis on the teaching of a foreign language; specific emphasis on the teaching of a foreign language.

7205 Critical Analysis of Current Research in Reading (3) Prereq.: 12 hours of graduate reading courses or equivalent. Research and teaching experience in a learning study; specific emphasis on the teaching of reading.

7279 Teaching in the Science Laboratory (3) Prereq.: EDCI 4701 or equivalent. Professional development in laboratory teaching science; use of results to generate creative laboratory activities.

7340 Foundations of Art Education (3) Prereq.: graduation standing in art education or consent of instructor. Development of theory and philosophy leading to current practices in art education.

7411, 7412 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 7120; 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 71111 or 7141; or equivalent. May be taken for a max. of 6 hrs. of credit when topics vary.

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 Literacy in the Elementary School (3) Prereq.: EDCI 7109 or equivalent. Specific emphasis on the teaching of English, relevant teaching issues and standards; integration of literature into the elementary curriculum.

7314 Teaching Writing Composition in the Elementary School (3) Prereq.: EDCI 3113 or equivalent. Practicum and curriculum 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 and language, based on student needs and characteristics; multicultural and global education; uses of technology; assessment and evaluation.

7455 Foundations of Secondary School National 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 3 hrs. of credit when topics vary. Study of teacher-researcher literature; its application to teaching and curriculum in the secondary school (or equivalent to the 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 skills in daily lessons; use of authentic cultural materials.
Prereq.: EDCI 7760 or equivalent.

7763 Developing Curriculum for the Gifted (3) Su

7764 Social Emotional Development of the Gifted (3) S

7765 Developing Curriculum for the Gifted (3) Su

7766 Practicum in Education for the Gifted (3-6) V

7781 Seminar in Current Trends in Education Literature (3)

7782 Practicum in Education for the Gifted (3) Su

7783 Seminar in Teacher Education II (Prereq.: cohort membership or consent of instructor and concurrent enrollment in EDCI 7480, 7485, 20 hrs. lab. Pass-fail grading. Along with the Seminar in Teacher Education and the Master’s Project, this course is designed to partially fulfill student teaching requirements and to prepare students to be effective classroom teachers.)

7784 Master’s Project 1 (3) Prereq.: cohort membership or consent of instructor and concurrent enrollment in EDCI 7480, 7485. Development and completion of a research problem in curriculum and instruction that grows out of the first semester’s clinical experience. This course is designed to partially fulfill student teaching requirements.

7785 Master’s Project 2 (Prereq.: cohort membership or consent of instructor and concurrent enrollment in EDCI 7480, 7485. Development and completion of a research problem in curriculum and instruction that grows out of the second and culminating semester’s clinical experience.

7786 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.

7790 Advanced Internship in Reading (6) Prereq.: advanced standing in the specialist or doctoral program or equivalent. 2 hrs. lecture; 2 hrs. lab. Procedures for guiding internship in reading; theory and practice of supervision of a variety of 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.

7795 Applied Research in Reading (3) Prereq.: enrollment in advanced graduate program and ELRC 4249; or equivalent. Individual research projects.

7796 Advanced Seminar in Special Education I (3) F

7797 Advanced Seminar in Special Education II (3) S

7798 Behavior Analysis in Special Education (3) F-E

7799 Curriculum Planning (3) 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.

7800 Thesis Research (1-12 per sem.) 5’YU’ grading.

7801 Dissertation Research (1-12 per sem.) 5’YU’ grading.

DAIRY SCIENCE • DAIRY

1048 Elements of Dairying (3) F

1049 Techniques of Judging and Evaluating Dairy Cattle (2) F

1050 Development of dairy animals and techniques in a clinical setting; emphasis on visual evaluation, decision making, oral communication.

1052 Dairy Cattle Production Practices (3) S

1053 Introductory Agricultural Genetics (3) S

1056 Dairy Science Internship (3) Prereq.: BION 1002 or equivalent. Introduction to classical and modern genetic methodology used in agriculture including Mendelian principles, selection, and assisted reproductive technology, genetic engineering and other biotechnological methods.

2057 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.

2058 Quality Assurance in the Food Industry (4) S-E

Prereq.: BIOL 2051, 3 hrs. lecture; 2 hrs. lab. Also offered as ANSC 4040, DFDIS 4040, and PLSC 4040. Laboratory fundamentals of assurance systems, and microbiological, chemical, and statistical techniques used to provide complete quality assurance for the modern dairy food plant.

2059 Dairy Cattle Identification (4) S

Dairy Cattle Production Practices (4) F-O

2060 Dairy Microbiology (3) F

2061 Dairy Science Internship (3) S

2062 Dairy Cattle Nutrition (4) F

2063 Dairy Cattle Breeding and Genetics (2) F-E

2064 Dairy Production (3) S

2065 Dairy Physiology (2) F

2066 Dairy Processing (3) F

2067 Dairy Foods (3) F

2068 Dairy Foods and Microbiology (3) F

2069 Dairy Science Internship (3) S

2070 Dairy Science Internship (3) S

2071 Dairy Science Internship (3) S

2072 Dairy Science Internship (3) S

2073 Dairy Science Internship (3) S

2074 Dairy Science Internship (3) S

2075 Dairy Science Internship (3) S

2076 Dairy Science Internship (3) S

2077 Dairy Science Internship (3) S

2078 Dairy Science Internship (3) S

2079 Dairy Science Internship (3) S

2080 Dairy Science Internship (3) S

2081 Dairy Science Internship (3) S

2082 Dairy Science Internship (3) S

2083 Dairy Science Internship (3) S

2084 Dairy Science Internship (3) S

2085 Dairy Science Internship (3) S

2086 Dairy Science Internship (3) S

2087 Dairy Science Internship (3) S

2088 Dairy Science Internship (3) S

2089 Dairy Science Internship (3) S

2090 Dairy Science Internship (3) S

2091 Dairy Science Internship (3) S

2092 Dairy Science Internship (3) S

2093 Dairy Science Internship (3) S

2094 Dairy Science Internship (3) S

2095 Dairy Science Internship (3) S

2096 Dairy Science Internship (3) S
metabolism.

7020 Andrology (3) S-E Prereq.: DARY/ASC 4035 or equivalent. Terminology and anatomy of avian, aquatic, and mammalian species.

7091 Advanced Dairy Seminar (1) F.S.May be taken 4 times credit.

8000 Thesis Research (1-12 per sem.) S,Y,U grading.

8900 Research Procedure in Dairy Science (1-6) Prereq.: consent of instructor. May be taken for a max. of 9 hrs credit. Research in dairy breeding and genetics, management, nutrition, and physiology; dairy manufacturing.

9000 Dissertation Research (1-12 per sem.) S,Y,U grading.

DISSASTER SCIENCE AND MANAGEMENT • DSM

2000 Disasters, Hazards, and the Environment (3) Also offered as GEOG 2000. Exploration of the interaction between natural/technical hazards and society that cause disasters; introduction to the natural and technological hazards and disasters; hazard and disaster management; emergency management 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; modern terrorism attacks and campaigns; ideological and religious justifications for terrorism; domestic versus international terrorist networks; state sponsored terrorism; factors contributing to the success and preemption of terrorist attacks and networks.

3200 Technology and Emergency Management (3) Application of technology that may be employed 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.: admission to program. Written consent of instructor. 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 Industrial 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. Students with minor concentrations in organization, the nature and impacts of disasters; explores individual, community, and organizational strategies to mitigate the economic, sociological, political 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.: SOCIL 2211 or equivalent and 12 hrs. of coursework including DSM 2000 and core courses in the disaster science and management program. May be repeated for a max. of 12 sem. hrs. when topics vary. Consent of instructor. For students with at least junior standing and 12 hrs. of coursework 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 in 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 • ECO

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 2020, 2030 or 2040. 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 2111, 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 2110, with special honors emphasis for qualified students. Credit will not be given for this course and ECON 2110.

★ 2030 Economic Principles (3) An honors course, ECON 2130, is also available. Credit will not be given for both this course and ECON 2030 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: Macroeconomics (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 2020 or 2030. An honors course, ECON 2035, 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.

4100 The United States—Its Economic Growth (3) Prereq.: ECON 2000 or equivalent. The American economy; modern problems dealing with money and banking, taxation, labor, international trade, and American politics.


4025 The Russian Economy in the 21st Century (3) Prereq.: ECON 2010, or 2030. Also offered as HIST 4126. Economic bases, determination, trade, externalities, and public goods; predation, antitrust, and experimental economics.

4421 Health Care Economics (3) Prereq.: ECON 2000 and 2010, or 2030. Study of health care systems: competition, insurance, market power, equalities, cost analysis, and cost-benefit analysis; economic analysis of the health care system.

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 agreements, 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 in China; China’s role in the international trade and financial markets.

4550 International Finance (3) Prereq.: ECON 2010 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 price 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 completed Calculus I or II. Mathematical techniques used by economists; their application to economic analysis.
EDUCATIONAL LEADERSHIP, RESEARCH, AND COUNSELING • ELRC

GENERAL COURSES

5800 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.

7209 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 faculty member.


9000 Dissertation Research (1-12 per sem.) S Prereq.: consent of instructor. May be repeated for credit. Pass/fail 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 Prereq.: consent of instructor. May be taken for a max. of 9 sem. hrs. of credit when topics vary. 7332 Also offered as HRE 7332. 7345 Introduction to basic communication skills and counseling techniques.

4600 Counseling for Disabling Conditions (3) S Extsol., identification, and counseling interventions for conditions and disorders which result in disability and impaired functioning.

4601 Management of Counseling Services (3) S 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 sem. hrs. of credit when topics vary. Prereq.: consent of instructor. 2 hrs. conf.; 6 hrs. lab. 7301 Orientation to the World of Work (3) V Prereq.: ELRC 7312. Also offered as HRE 7301. For elementary school counselors. Basic concepts of career orientation, awareness, and exploration phases of the career development process.

7309 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 guidance, 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) S Overview of selection, administration, interpretation, and use of assessment and evaluation instruments and techniques in counseling.

7334 Vocational Counseling (3) V Prereq.: ELRC 7312 or equivalent. Also offered as HRE 7334. Materials and techniques in vocational counseling of adolescents and adults.

7345 Counseling Skills and Interventions (3) S Prereq.: consent of instructor. Credit for dissertation Research (1-9 sem.). May be repeated for credit. Pass/fail grading.

7346 Counseling Practicum in Elementary Schools (3-6) F,S Prereq.: consent of instructor. 2 hrs. conf.; 6-18 hrs. lab. May be taken for a max. of 6 hrs. of credit when topics vary. Supervised experience in elementary schools.

7362 Practicum in School Counseling (3-6) F,S Prereq.: ELRC 7345, 4361, 4365, 7330, 7331, 4895, and consent of instructor. 2 hrs. conf.; 6-18 hrs. lab. May be taken for a max. of 6 hrs. of credit when topics vary. Direction and assistance for the practitioner in solving special problems in school organization.

7585 Directed Topical Research • ELRC See FIN 7585.

7585 Directed Topical Research • ELRC See FIN 7585.

7585 Directed Topical Research • ELRC See FIN 7585.

7590 Seminar in Monetary and Fiscal Policy (3) Prereq.: ECON 7740 and 7750. Fiscal and monetary policy, role of fiscal and monetary policy, role of government in provision of health resource management; measurement problems; interpretation of Keynesian and monetarist schools.

7595 Seminar in Monetary Theory (3) Prereq.: ECON 7610 and 7615. Monetary theory; analysis of the classical theory of money; monetary equilibrium; monetary models of the economy; developments of money market; demand and supply of money; monetary policy.


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.

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.

7620 Seminar in Environmental Economics (3) Prereq.: ECON 7240 and 7325. Environmental economics, public expenditures, and policies. May be repeated for credit. Pass/fail grading.

7630 Econometric Methods (3) Prereq.: ECON 7240 and 7325. Econometric methods used to examine financial data; tests of market efficiency, forecasting volatility of financial markets, estimation of value at risk.

7631 Econometric Methods II (3) Prereq.: ECON 7630 or equivalent. Econometric techniques for heteroskedasticity, autocorrelation, simultaneous equations, pooled time series and cross-section analysis.

7632 Econometric Theory III (3) Prereq.: ECON 7631 and either ECON 7610 or differential calculus and linear algebra. Econometric theory and statistical inference; properties of estimators, small sample properties of ordinary least squares, asymptotic distribution theory, generalized least squares estimators, statistical inference; regression techniques applied to a general linear model; problems involved in regression analysis; extensions of the general linear model.

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; cointegration 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, demand, and supply and policy formation; national income determination.

7711 Macroeconomics II (3) Prereq.: ECON 7710 and 7610. Macroeconomic models of the individual firm, including a nonmathematical approach.

7712 Price Theory II (3) Prereq.: ECON 7610 or equivalent. Theories of utility, demand, cost, production, factor pricing, and capital market equilibrium under various marketing conditions.

7725 Advanced Microeconomic Theory (3) Prereq.: ECON 7610, 7770, and 7720; or equivalent. Advanced price theory; capital theory; equilibrium, distribution theory, market structures.

7730 Elements in Social and Personal Adjustment (3) Prereq.: ECON 7710 and 7610. Advanced microeconomic theory. Elements include recurrent methods, realistic business cycle models, new-Keynesian economics, asset pricing models, endogenous growth theories, and empirical tests of these models.

7731 Counseling Practicum in Elementary Schools (3) V Prereq.: ELRC 4361 and 4365. For elementary school counselors. Basic concepts of career orientation, awareness, and exploration phases of the career development process.

7732 Also offered as HRE 7301. For elementary school counselors. Basic concepts of career orientation, awareness, and exploration phases of the career development process.

7733 Analysis of the Individual (3) S Overview of selection, administration, interpretation, and use of assessment and evaluation instruments and techniques in counseling.

7734 Vocational Counseling (3) V Prereq.: ELRC 7312 or equivalent. Also offered as HRE 7334. Materials and techniques in vocational counseling of adolescents and adults.

7745 Counseling Skills and Interventions (3) S Prereq.: consent of instructor. Credit for dissertation Research (1-9 sem.). May be repeated for credit. Pass/fail grading.

7800 Thesis Research (1-12 per sem.) S Prereq.: consent of instructor. 2 hrs. conf.; 6-18 hrs. lab. May be taken for a max. of 6 hrs. of credit when topics vary.

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 faculty member.

8000 Thesis Research (1-12 per sem.) S Prereq.: consent of department.

9000 Dissertation Research (1-12 per sem.) S Prereq.: consent of instructor. May be repeated for credit. Pass/fail grading.

EDUCATION • EDUC

2000 Special Topics in Education (1-3) V 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

7364 Community Agency Counseling Practicum (3-6) F, S, Su 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 with petition of the instructor; students will be required to develop a research proposal whose objective is to improve school and/or faculty performance.

7382 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.

7383 Best Practices of School Leadership I (6) Knowledge and experiential base to support decision making and action at a level of whole school responsibility.

7387 Introduction to Instruction in Elementary and Secondary Schools (3) F,S,Su Prereq.: ELRC 7402 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.

7396 Advanced Individual Counseling (3) S Prereq.: ELRC 4365 and 7334 or equivalent. Also offered as HRE 7392. Life career planning through vocational assessment and counseling, vocational counseling theory, research, and practice.

7398 Field Experiences in Vocational Counseling (3) F,S,Su Prereq.: ELRC 7334 or equivalent. Also offered as HRE 7392. Life career planning through vocational assessment and counseling, vocational counseling theory, research, and practice.

7399 Supervised Counseling Internship (3-9) F,S,Su Prereq.: ELRC 7336 and 7354; 1 hr. lecture; 4 hrs. lab. May be taken for a max. of 6 hrs. of credit when topics vary.

7400 Economics of Education (3) F,S; Su Prereq.: ELRC 7006, 7402, and 7407, or equivalent. Provides a knowledge and experiential base to support decision making and action at a level of whole school responsibility.

7401 Administration of School Personnel (3) S,F,Su Prereq.: ELRC 7402 and 7407; 1 hr. lecture; 4 hrs. lab. May be taken for a max. of 6 hrs. of credit. Also offered as HRE 7392. Life career planning through vocational assessment and counseling, vocational counseling theory, research, and practice.

7402 Organization Research in Educational Administration (3) Prereq.: ELRC 4400 and 7450. Provides a knowledge and experiential base to support decision making and action at a level of whole school responsibility.

7405 Perspectives on Leadership (3) F,S,Su Examines theories and practices of leadership from multiple perspectives.

7409 Principles of Testing and Measurement (3) Prereq.: ELRC 7006. Construction of measurement instruments for research purposes; utilization of standardized tests and inventories in research; multicultural and cross-cultural contexts; implications of measurement reliability and validity for research design and interpretation of test scores.

7420 Data Analysis and Interpretation in Educational Research (3) F,S,Su Theories, principles, and practices concerning the role of the statistician in today's multicultural world. Focus on measurement and assessment.

7422 Introduction to 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 II (3) F,S,Su Theories, principles, and practices concerning the role of the statistician in today's multicultural world. Focus on measurement and assessment.

7450 Supervision of Instruction in Elementary and Secondary Schools (3) F,S,Su Prereq.: ELRC 7402 and 7407, or equivalent. Provides a knowledge and experiential base to support decision making and action at a level of whole school responsibility.

7451 Supervision of Teacher Training (3) F,S,Su Prereq.: ELRC 7402 and 7407, or equivalent. Provides a knowledge and experiential base to support decision making and action at a level of whole school responsibility.

7452 Behavior and Design of a Research Proposal (3) S Prereq.: ELRC 7422. Students refine and administer a research proposal whose objective is to improve school and/or faculty performance.

7453 Supervision of Teacher Training (3) F,S,Su Prereq.: ELRC 7402 and 7407, or equivalent. Provides a knowledge and experiential base to support decision making and action at a level of whole school responsibility.

7454 Field Experiences in Vocational Counseling (3) F,S,Su Prereq.: ELRC 7334 or equivalent. Also offered as HRE 7392. Life career planning through vocational assessment and counseling, vocational counseling theory, research, and practice.

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.

4401 Problems of Educational Finance (3) F,S,Su Financing public elementary and secondary schools in terms of federal, state, and local sources of revenue, tax structures, budget preparation, textbook costs, educational research, and administration.

4402 Administration of School Personnel (3) F,S,Su Role of the school administrator in personnel planning, staff development, and employee relations.

4403 Organizational Research in Educational Administration (3) Prereq.: ELRC 4400 and consent of instructor. Primarily for doctoral students in educational administration. Critical analysis of approaches to inquiry; development of theory in educational administration.

7420 Introduction to School Improvement/Action Research (3) 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 II (3) F,S,Su Theories, principles, and practices concerning the role of the statistician in today's multicultural world. Focus on measurement and assessment.

7452 Behavior and Design of a Research Proposal (3) S Prereq.: ELRC 7422. Students refine and administer a research proposal whose objective is to improve school and/or faculty performance.

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 developing, administering, and evaluating written, performance-based, and other forms of classroom assessment; applications of technology in classroom assessment.

4096 Introduction to Applied Statistics in Educational Research (3) F,S,Su Basic descriptive and inferential statistics; statistical research design; data collection; and analysis 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, chi-square, and t-equations. Current test- and interval estimation; analysis of variance, nonparametric, and chi-square tests.

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; multicultural and cross-cultural contexts; implications of measurement reliability and validity for research design and interpretation of test scores.

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 computerized data analysis procedures in educational research.

7201 Theory of Educational Measurement (3) F Prereq.: ELRC 4000. 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 Educational Measurement (3) F,S,Su Prereq.: ELRC 7006 and 7201. Basic statistical and psychometric principles and methods in educational measurement.

7203 Computer Assisted Testing (3) Prereq.: ELRC 7005. Computer adaptive testing; computerized item and test development; continuous and intelligent measurement; applications of computerized testing; reporting test results; legal issues and professional standards.

7220 Education Program Evaluation (3) F,S; Su 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 4209; 2 hrs. lecture; 4 hrs. lab. Performance evaluation in education; current procedures and research concerning performance evaluation of students, teachers, and administrators; methodological, professional, and legal issues.

7241 Educational Research Methodology (3) F,S,Su Prereq.: ELRC 4006 or 7006. Completion of a research proposal. Alternatively, a proposal presentation is required. Comprehensive and general review of qualitative and quantitative research methods in education.

7242 Educational Research and Experimental Designs in Educational Research (3) F,S,Su Prereq.: ELRC 7016 and 7241. Experimental and quasi-experimental designs in educational research, including the design, evaluation of internal/external validity; design and implementation of projects; analyzing variance data through computerized analysis and interpretation of analysis of variance and covariances; multiple regression.

7243 Qualitative Methods in Educational Research (4) S Prereq.: ELRC 4249 or 7006; 2 hrs. lab. Introduction to qualitative research traditions and methods.
in education, including: ethnography, grounded theory, and case study; major methods including observational techniques, multi-media analysis; philosophical issues regarding the qualitative research approach; emphasis on qualitative data analysis, including the use of computer tools; assignment: analysis of a document analysis.

7248 Introductory Research Practicum (3) F
By arrangement with a state agency, a local school system, or other education 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. 

7249 Advanced Research Practicum (3) Prereq.: ELRC 7248. By arrangement with a state agency, a local school system, or other education 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; educational 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 education program or a software program package: 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 education 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. Principles, theories, and strategies for systematically examining the content of textual and other mediated communications.

7290 Seminar: Educational Research Methodology (1-3) May be taken for a max. of 9 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, objectives, design, and evaluation of instructional modules and systems.

4507 Computer Technology in Education (3) Applications of computing, software, and data processing in computer-assisted and computer-managed instruction; information storage and retrieval; use of micro/minicomputers.

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 production; production values.

7240 Critical Analysis of Current Research in Educational Media (3) Su Prereq.: ELRC 4501, 4507, or equivalent. Analysis of the adequacy and evaluation of current and needed research; systems approach to solving instructional problems.

7240 Administration of Technology Programs (3) S Prereq.: ELRC 4501 or 4507 or consent of instructor. Primarily for personnel responsible for planning, implementing, and evaluating instructional technology programs. Topics include applications, facilities, finances, acquisitions, and staff development.

7500 Technology 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; instructional computing models. 

7502 Principles of Distance Education (3) F,S,Su Prereq.: ELRC 4507 or consent of instructor. Applications of the principles of teaching and learning in educational and training contexts.

7503 Instructional Design (3) F Prereq.: ELRC 4507 or equivalent. Approaches to instructional design and models and their application in solving real world instructional/learning problems.

7504 Educational Law and the Law (3) Legal issues concerning educational technology.

7505 Design and Development of Multimedia Instruction (3) Prereq.: ELRC 4507 and 7501, 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 7501, or equivalent. Techniques used to meet training and development needs in business, industry, and governmental agencies.

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 7420 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 learning theory 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; student diversity; curriculum, curricular change, and new providers of higher education.

7604 Politics and Policy of Higher Education (3) Political and policy analysis of higher education; the role of race and gender, politics, and policy of student loans; policies toward unprepared college students; collective bargaining; and collective bargaining.

7605 Higher Education and the Law (3) Legal issues concerning higher education, including tenure, academic freedom, campus speech, race, disability, 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 college and university finance.

7609 Strategic Planning in Higher Education (3) Strategic plans for institutions of higher education; processes by which priorities are developed and decision making; evaluation within the context of the cultural and competitive environment; emphasis on current topics in organizational strategy.

7610 Research and Evaluation (3) Analysis of assessment and evaluation practices in higher education; role of assessment in policy development and decision making.

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 2000 and PHYS 2102 required or consent of department. Time-domain analysis of electrical networks.

2130 Circuits II (3) Prereq.: EE 2120. Terminal behavior of semiconductor devices and basic circuit theory.

2231 Electronics Laboratory I (2) Prereq.: concurrent enrollment in EE 2230. 1 hr. lecture; 2 hrs. lab.

2720 Digital Logic I (3) Prereq.: admission to the College of Engineering. Boolean algebra; logic gates; minimization methods; analysis and synthesis of combinational logic networks; design example.

2730 Digital Logic II (2) Prereq.: EE 2720. Analysis and design of sequential circuits; practical design of digital circuits.

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 2402 or equivalent. Familiarization with mathematics and major courses.

3061 Special Projects (2, 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 applications 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.

3140 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 2230. 1 hr. lecture; 2 hrs. lab.

3232 Solid State Devices I (3) Prereq.: EE 2230 and 2310. Physics and analysis of basic semiconductor devices; principles of integrated circuit fabrication.

3320 Electrical and Magnetic Fields (3) Prereq.: MATH 2070 and EE 2120. 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, 2130, and 2231. 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 and discrete-time signals and systems.

3750 Microprocessor Systems (2) Prereq.: CSC 1253 and EE 2730. Theory and design of microprocessors; semiconductor devices, architectures, assembly language, software development, input/output design, applications, and interfacing.
3751 Microprocessor Laboratory (2) Prereq.: EE 3750. 1 hr. lecture; 2 hrs. lab.
4322 Special Topics in Electrical Engineering (3) Prereq.: EE 3220 or equivalent. 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.

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.

4120 Network Analysis (3) Prereq.: EE 3610 and MATH 2057. 2 hrs. lecture; 1 hr. design; 2 hrs. lab. ABET science.

4130 Graph Theory (3) Prereq.: EE 2130 or equivalent. Graph and subgraph properties, graph operations, enumeration techniques, and applications to analysis and synthesis of electrical networks. First quarter of third and fourth years.

4160 Algorithms and Implementations for Digital Signal Processing (3) Prereq.: EE 3160 or equivalent. Design algorithms and architectures for digital signal processors and integrate 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.

4242 VLSI Design (3) Prereq.: EE 3720, 3720. 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.

4305 Topics in Control System Design (3) Prereq.: EE 3530. State variable methods for analysis and design of control systems; realization, stability, and stabilization; observers, control design.

4400 Advanced Digital Signal Processing (3) Prereq.: EE 3140, EE 3530, 2 hrs. lecture, 2 hrs. lab. ABET category: 2 hrs. design; 1 hr. engineering science. Design and test of DC and AC motors for variable speed systems. Emphasis on analysis of their static and dynamic properties.

4500 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.

4700 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 power semiconductor converters including controlled rectifiers, inverters, ac voltage controllers, and DC-DC converters.

4740 Microwave Engineering (4) Prereq.: EE 3200 or equivalent. Wave propagation at microwave and optical frequencies in metallic waveguides and optical fibers, including measurement techniques of microwave transmission, distribution, generation, and industrial power systems.

4422 Electric Machine Design (3) Prereq.: EE 3410 or equivalent. Analysis of electric machine design and development of practical systems including instrumentation, data analysis, and modeling; design and construction of term projects.

4755 Computer Organization (3) Prereq.: EE 3750 or equivalent. 4 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, with applications to small lab experiments.

4430 Power System Analysis (3) Prereq.: EE 3410 or equivalent. Power system analysis using computer methods; power system modeling and stability; computer aided analysis and design.

4445 Power System Operation and Control (3) Prereq.: EE 3410 or equivalent. Introduction to operation and control of electrical energy systems. Real time computer aided analysis and design.

4550 Distribution System Design (3) Prereq.: EE 3410 or equivalent. ABET category: 2 hrs. design; 1 hr. engineering science. Power system design; emphasis on distribution systems with nonsinusoidal voltages and currents.

4800 Nonlinear Power System Analysis (3) Prereq.: EE 3410 or equivalent. Nonlinear systems, harmonic generation, compensation, and filtering.

4840 Control Systems (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 motors for variable speed systems. Emphasis on analysis of their static and dynamic properties.

4950 Topics in Control System Design (3) Prereq.: EE 3530. State variable methods for analysis and design of control systems; realization, stability, and stabilization; observers, control design.

5100 Computer Vision (3) Prereq.: EE 3530, 3590. State variable methods for analysis and design of control systems: realization, stability, and stabilization; observers, control design.


5300 Introduction to Expert Systems (3) Prereq.: EE 3590, 3591. Emphasis on artificial intelligence and expert systems, with applications to natural language processing, expert systems, and intelligent robots.

5700 Real Time Computing Systems (3) Prereq.: EE 3735. ABET category: 2 hrs. design; 1 hr. engineering science. Computer organization and programming, including real-time operating systems, real-time systems, and computer architecture.

5785 Introduction to Expert Systems (3) Prereq.: EE 3735 or equivalent. ABET category: 2 hrs. design; 1 hr. engineering science. Computer organization and programming, including real-time operating systems, real-time systems, and computer architecture.


6900 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.
7400 Advanced Topics in Controls (3) May be taken for a max. of 12 hrs. of credit when topics vary. 7510 Advanced Control Systems (3) Prereq.: EE 4560 or equivalent. Modern approaches for the analysis and identification of linear, discrete and continuous time, control systems; state space, functional, and fractional description techniques, functional analytic methods. 7520 Optimal Control Theory (3) Prereq.: EE 4560 or equivalent. Internal stability, model uncertainty, robust stability, robust performance, controller design limitations, loop shaping H-\(^\infty\) and other robust optimal 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, optimization, control system applications, robust control, nonlinear systems, identification, mixed-signal and mixed-mode circuits. 7570 Nonlinear System Analysis (3) Prereq.: EE 4560. Systems approach to study of nonlinear systems; includes limit cycles, bifurcations, chaos, anticontrol, and other problems of dynamical systems. 7580 Advanced Digital Control Systems (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 time process optimization. 7585 Advanced Digital Control Systems (3) Prereq.: EE 4585 and EE 4560. Theory and design of sampled-data control systems; 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. Modulation and demodulation of digital communication signals, optimum receiver principles, digital modulation schemes, bandwidth and power efficiency, coded modulation. 7620 Digital Communication II (3) Prereq.: EE 7615 or equivalent. Time and Frequency domain approaches to transceiver design for communication over frequency and time selective channels, and 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 Golay codes, convolutional codes, problems of data security, probabilistic ciphers, computational complexity ciphers. 7660 Random Processes II (3) Prereq.: EE 4660 or equivalent. Random processes and performance analysis of continuous random processes, Markov chains, and queueing models. 7670 Communication Networks (3) Prereq.: EE 7660. Protocols, performance, and operation of the data link layer and the network layer of communication networks. 7672 Switching and Broadband Networks (3) Prereq.: EE 7660. Protocols, performance, 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. Mathematics of Boolean algebra; vector switching functions, Boolean differential calculus, and fault detection.

7715 Computer Arithmetic (3) Prereq.: EE 3755 or equivalent. Number systems; high performance adders, multipliers, dividers; floating-point arithmetic; residue number systems; hardware implementations. 7720 Advanced Computer Architecture (3) Prereq.: EE 4720 or equivalent. High performance computer architecture; pipelining; 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 multi-threaded 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. Identification and classification of patterns, machine learning, pattern recognition; optimization techniques; efficient algorithms; implementation issues. 7760 Logic Testing and Testable Design (3) Prereq.: EE 3755 and EE 3140 or equivalent. Switch level fault models, testing for combinational and sequential circuits, VLSI testing, design for testability. 7765 Distributed System Computer Reliability (3) Prereq.: EE 4710 or equivalent. Reliability measures, standards, evaluation and bounds; multimode and statistical dependent failure analysis; distributed and parallel systems; availability and reliability of graceful degradation, performability; software reliability. 7770 Interworking Principles (3) Prereq.: EE 4710 or equivalent. Internet protocols, 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. 7795 Models and Methods for Parallel Computation (3) Prereq.: EE 4790 or equivalent. Mathematical treatment of space and time complexity of computations; formal models of computers, availability, and software reliability. 7795 Models and Methods for Parallel Computation (3) Prereq.: EE 4790 or equivalent. Computer architecture, implementation, availability, and software reliability. 8000 Thesis Research (1-12 per sem.) Prereq.: permission of department. “S” “T” or “U” grading.

9000 Dissertation Research (1-12 per sem.) Prereq.: permission of department. “S” “T” or “U” grading.

ENGINEERING • ENGR

1050 Introduction to Engineering (2) Introduction to engineering history, disciplines, and professional development. 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” “T” or “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 composition course (ENGL 1004 or its equivalent (ENGL 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 English courses are marked with * (#).

4004 English Composition (5) For international students whose diagnostic tests indicate the need for intensive work in basic writing skills. Pass-no credit grading. Not for degree credit. Required during the first semester of residence for all international students (graduates, undergraduates, and technical students) who demonstrated a need for basic English language instruction in the placement examination required of every new international student.

★ 2072 Poetry (3) Skills for reading and writing about poetry; attention to generic conventions and critical perspectives; section emphasis may vary, consult departmental handbook.

★ 2079 Drama (3) Skills for reading and writing about drama; attention to generic conventions and critical perspectives; section emphasis may vary, consult departmental handbook.

2085 Science Fiction Studies (3) Science fiction literature, particularly that of the 20th century.

2086 Fantasy Literature (3) Variety of literary types employing comparable conventions; uses of older literatures in modern fantasy novels; themes such as quest for identity, ideal of the hero, and nature of good and evil.

2202 Business Grammar for International Students (4) 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 handbook.

2148 Shakespeare (3) The more popular plays.

2173 Louisiana Literature (3) Fiction, poetry, essays, and drama; attention to generic conventions and critical perspectives.

2175 The Civil War in Literature (3) Portrayal of the Civil War in fiction, poetry, drama, diaries, and letters.

2021 Introduction to World Literary Traditions (3) See CPTL 2201.

2202 Introduction to Modern World Literature (3) See CPTL 2202.

2203 American Literature (3) Selected major British authors from the Anglo-Saxon period to the present.

2204 American 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.

2280 Interpreting Discourse (3) Study of and writing about discourse in a variety of 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 handbook.

2673 Literature and Ethnicity (3) Literature of American minorities in modern society; literature of ethnic minorities in modern society; literature of ethnic minorities in modern society.

2674 Introduction to African-American Literature (3) Major figures and popular texts of black American literature, including written and oral texts; techniques of interpretation and criticism; 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 literature, including critical perspectives.

2920, 2921, 2922 Independent Work (1, 1, 1) Prereq.: sophomore standing and an average of not less than 2.00 in both this course and ENGL 2823. Consult department before registering. Reading, conferences, and reports under departmental faculty direction.

3000 HONORS: Critical Analysis (3) Conclusion of the English honors program; for details, consult the department.

3011 Writing Professionally in the Arts and Social Sciences (3) Junior status is required. Consult department before registering. Preparation for work in the arts and social sciences; includes proposals, research studies, and reports.

3002 Thesis and Honors (3) Credit will be given only for one of the following: ENGL 3002, 3003, and 3102. Training in skills required of practicing scientists, engineers, and technical managers.

3086 Modern Critical Theory (3) Influential works of literary criticism and theory written in the 20th century.

3204 Germany (3) Survey of contemporary fiction from a comparative perspective; authors such as Kafka, Mann, and Beckett.

3303 Technical Writing for Nontechnical Majors (3) Prereq.: junior status. Credit will not be given for both ENGL 3002 and 3003 and 3102. Credit will not substitute for 3002 requirement. Formats and processes of writing found in business, science, government, and industry.

3404 Writing with Style: Advanced Expository Prose (3) Experimentation with different styles of writing in a workshop forum for advanced writers.

3515 Composition Tutoring (3) Prereq.: consent of instructor. 1 hr. lecture; 6 hrs. lab. Composition theory as applied to undergraduate writing. Emphasis on writing as a process, planning, prewriting, drafting, revising, editing, and proofreading.

3620 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.

3622 British Literature II: Romantics, Victorians, and Moderns (3) Survey of British literature from the French Revolution through the Industrial Revolution into the 20th century.

3624 Criticism (3) Influential works of literary criticism from the classical to the modern period.

3700 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.

3702 American Literature II: Coming of Age (3) American literature of the 19th and 20th centuries; realism, naturalism, modernism; effects of industrialization, immigration, the women's movement, the civil rights struggle, and the world wars.

3800 Post-colonial Literature (3) Survey of literature from former British colonies in South Asia, Africa and the Caribbean; colonialism; post-colonial theories; diaspora; transnationalism; hybridity; women's rights; building a new nation, etc.

3804 Modern Criticism (3) Influential works of literary criticism and theory written in the 20th century.

3806 Contemporary Fiction (3) Survey of contemporary fiction from a comparative perspective; authors such as Achebe, Bellows, Garcia Marquez, Lessing, Morrison, Pynchon, Updike; developments in magical realism, minimalism, cyberpunk.

3809 Legal Writing (3) Credit will not be given for both this course and ENGL 2001. Discussions and writing assignments tailored to focus on common in law and in law-related fields; emphasis on writing clear, precise, effective prose.

3812 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.


3202 Dynamics of Learning in the English Classroom (3) Also offered as REL 3202. Concurrent enrollment in EDCI 3002, 3 hrs. lab/dayfield 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, science fiction, westerns, situation comedies.

3223 Adolescent Literature (3) Also see EDCL 3223. Critical analysis and survey of literature 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 imagination in works of art; authors; texts; readers studied may include Aeschylus, Dante, Shakespeare, Melville, and Walker Percy.

3304 Rhetoric: Texts and Contexts (3) Development of rhetoric and writing within their cultural contexts; modes of writing and rhetoric particular to historical periods, classical to modern.

3304 Rhetoric: Pedagogy, and History (3)
topics such as "The Beginnings of English Drama," "Shakespeare's Contemporaries," "Irish Drama," "Women in the Theater."
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 Beaumont, Dryden, Shakespeare, Wilde, Wilde, O'Neill, Beckett, Pinter; topics such as "The Magic Theater," "Comic and Tragic Drama," "Renaissance Fools and Folly." 40301 Studies in Prose and Poetry (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 "Romanticism and the English Lyric and Romance," "Dream Vision and Allegory," "Reading Anglo-Saxon Literature."
40313 Studies in Stage and Irony (3) May be taken for a max. 6 sem. hrs. of credit when topics vary. Authors such as Jonson, Dryden, Swift, Pope, Twain, Waugh, 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 Jonson, Dryden, Swift, Pope, Twain, Waugh, Vonnegut, Atwood; 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, Dryden, Pope, Swift; novels such as Defoe's "Robinson Crusoe," novels in metaphysical poetry, revenge tragedy, urban comedy, courtly masque; topics such as "Public Playhouse and Courtly Stage," "Poesy 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 Congreve, Dryden, Pope, Swift; artists such as Hogarth, Fielding, Richardson, Austen; developments in satire, comedy of manners, the novel; topics such as "The Line of Wit," "Literature on the Margin." 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 Prime of Miss Jean Brodie, To the Lighthouse, Beloved; theorists such as Booth, Bakhtin, Kermode, Girard, Barth, Kristeva, Said; topics such as time, structure, voice, 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 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 Washington Irving, Charles Brockden Brown, 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 hrs. of credit when topics vary. Authors such as Twain, James, Whitman, 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, Waugh, Wright, Garcia Márquez, Flaubert, Woolf, Hemingway, Poe, Frank O’Connor, Friedman, Pratt; problems such as short story structures, beginnings and endings, compression, conflict, resolution, irony.
4088 Studies in Literature (3) Prereq.: ENGL 4000, 92 total credit hrs. and 27 hrs. in English beyond ENGL 4000, 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.
40140 Capstone Seminar in English Literature (6) Prereq.: for English Majors with 92 total credit hrs. and 27 hrs. in English beyond ENGL 4000, 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. Course topics will vary.
40155 Capstone Seminar in Writing Fiction (3) Prereq.: ENGL 4005, 92 total credit hrs. and 27 hrs. in English beyond ENGL 4000, 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.
40199 Capstone Seminar in Screenwriting (3) Prereq.: ENGL 4009, 92 total credit hrs. and 27 hrs. in English beyond ENGL 4000, 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.
40120 Studies in Major Authors (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Detailed readings by one or two authors. Stevenson 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," "Modemism and Revolution," "Nationalism and Revolution." 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 "Historical Study of Style," "Neo-Classic to Romantic," "Imitation and Creation," "Postmodern Literary Theory," "Literary and Cultural Theory," "Women's Liberation Movement." 4137 Studies in Chaucer (3) Attention to The Canterbury Tales, their literary and cultural significance; topics such as "Chaucer, Wife," "Trie and Prologue," "Broadsheet and Page," "The old daunce," Chaucer on Love, Sex, and Marriage.
4137 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 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, their 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 English Classroom (1) Prereq.: EDCT 3002 and ENGL 3202. Concurrent enrollment in EDCE 4003. 3 hrs. lab/field experience in multicultural secondary school settings. Focus on course design, pedagogy, and assessment for teaching English in middle school and high school classrooms.
4203 Capstone Seminar in English Literature (3) Prereq.: ENGL 4003 and ENGL 4203. Concurrent enrollment in EDCE 4004 and 4005. For English majors in the English Education Certificate Program. Advanced 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 Theory.
4232 Studies in Literature and Psychology (3) May be taken for a max. of 6 hrs. of credit when topics vary. Psychodynamic readings of literature such as Hamlet; literary readings of psychoanalytic authors such as Freud, Jung, Lacan; topics such as "Feminism and Psychoanalysis," "Extreme Psychology," "Psychoanalytic Readings." 4236 Studies in Literature and Religion (3) Also offered as REL 4236. May be taken for a max. of 6 hrs. of credit...
7915 Teaching College Composition (3) Prereq.: students must be graduate teaching assistants in the English Department, or graduate students teaching in the First-Year Writing program. Theoretical and pedagogical issues in the teaching of college writing.

7920 Educational Seminar (3) May be taken twice for credit when topics vary.


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 Modern Irish Literature 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. 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 Economy," "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 "Western 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 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.

7977 Black Criticism and Literary Methodologies (3) May be taken for a max. of 6 hrs. of credit when topics vary. Topics such as "American Black Writing," "The Modernist Novel.

7979 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.


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: Native American, Latino/Chicano, and postcolonial literatures such as Indian, Australian, South Asian, and Middle Eastern literatures.

7995 Plant Resistance to Arthropods (4) F Prereq.: consent of instructor. 3 hrs. lecture; 3 hrs. lab. Detailed study of the mechanistic basis of plant-arthropod interactions, with special reference to host-plant resistance in agricultural systems; integrates relevant concepts from diverse fields including plant physiology, plant biochemistry, and ecology; evaluation of the current theoretical basis for research in plant-insect interactions; laboratory demonstration and experiments; student emphasis on using the techniques of plant-arthropod resistance research.

7997 Special Topics in Veterinary Entomology (3) E-F Prereq.: ENTM 2001 or 3 hrs. lecture; 3 hrs. lab. Relationship of insects and other arthropods to human and animal health.

7998 Classification of Immature Forms of Insects (3) S-F Prereq.: ENTM 4005 or equivalent. 2 hrs. lecture; 2 hrs. lab.

7999 Advanced Pest Management (3) F-E Prereq.: ENTM 4006 and one 4000 level higher level science course (EXST 4050, 7003, 7004, 7005, 7013, 7014, 7015, and 7031) or consent of the instructor. 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.

7999 Seminar in Entomology (1) F-S May be repeated for a max. of 6 sem. hrs. of credit when topics vary. Independent study, research, or supervised instruction.

7999 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, laboratory teaching, 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.

7999 Morphology and Phylogeny (3) F Prereq.: 6 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.

7999 Pathological 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 other nonbeneficial arthropods; emphasizing the techniques used in host selection, population interactions, with special reference to host-plant resistance, entomology courses.

7999 Graduate Entomology Training Seminar (1) May be taken for a max. of 4 hrs. of credit. Supervised entomology research in a laboratory or field setting; data collection and interpretation of results. 4100 Insect Behavior (3) F Prereq.: ENTM 2001, 2051, or equivalent of 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 3 sem. hrs. of credit when topics vary. Lab/field trip may be required. Subjects not covered in other entomology courses.

4200 General Entomology (3) Prereq.: permission of instructor. 3 hrs. lecture. Provides a framework for the study of insects and related arthropods, anatomy, functional morphology and physiology, and a practical understanding of insect diversity on a local level.

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 applications.

3110 Water and Wastewater Treatment (3) Prereq.: CE 2200 for CE and CHEM majors, a grade of "C" or better is required in analytical, chemical, and biological characteristics of water and wastewater; water quality regulation; basic reactor engineering; operation and simple design of biological and physical units processes in water and wastewater treatment.

3120 Chemical Equilibrium and Kinetics of Environmental Processes (F) See CHEM 1100.

3200 Water Resources Engineering (3) Prereq.: CE 2200, 2720. Fundamentals of fluid mechanics applied to problems in the design and evaluation of steady or unsteady flow in closed conduits including analysis of water supply systems, flow in open channels, storm and wastewater collection systems, and turbo machinery with emphasis on computer methods.

3271 Senior Project I: Consulting Form (3) Prereq.: EVEG 3200, 3110. Student project teams tackle selected design projects within a designated time allocation. Project management (proposals, flow charts, technical content) and design presentation. 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 Form (3) Prereq.: EVEG 4271. Student project teams finalize design effort initiated in EVEG 3271. Construction of prototypes and bench scale demonstrations; extension of designs; simulation analysis.

3273 Independent Undergraduate Research Project (1-4) Prereq.: EVEG 4136, 4145 and consent of department. Independent research under the direction of a faculty member. Students develop the objectives and scope of the research and conduct appropriate analytical and experimental (field and lab) experiments. Results and conclusion of the project are summarized in a report and defended orally.

3400 Environmental Engineering II (3) F,S Prereq.: CHEM 2060 (2251). 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.: EVEG 3110. Tools to solve water management problems based upon hydraulic, mass balance, stoichiometric, kinetic, and equilibrium phenomena.

4110 Unit Operations Laboratory (2) Prereq.: CHEM 2060. EVEG 3110, EVEG 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.: EVEG 3110 and EVEG 4125. Design of solid and hazardous waste processes; process selection; elements of design systems; physical, chemical, biological, and thermal process design; regulations related to design of waste management systems.

4125 Design of Stormwater Management Projects (3) Prereq.: EVEG 4120 and EVEG 3200. Fundamentals of chemical transport in engineered systems and natural systems with an emphasis on applications to environmental engineering practice.

4130 Control and Treatment of Urban Storm Water (3) Prereq.: EVEG 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 wastewater or reuse water.

4136 Water Quality Analysis Laboratory (1) Prereq.: CHEM 1212, ENGL 2000, EXST 2201 and credit or registration in EVEG 4145. Water quality analysis of wastewater and surface water.

4139 Lakes Management and Modeling (3) Prereq.: CE 2200. Integration and application of limnological and engineering principles to the development of designed restoration and management solutions for lakes and their watersheds; development and application of dynamic models for system simulation and solution development.

4140 Design of Wastewater Management Facilities (3) Prereq.: EVEG 3200 and 3110; civil engineering students enroll in ENGR 2060 (2470) 2 hrs. lecture; 3 hrs. lab. Design of wastewater management facilities; process selection and evaluation using computer simulation tools and programs; design drawings, reports, and cost estimates.

4145 Environmental Engineering III (3) Prereq.: CHEM 2060 and 3110 or equivalent background. 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 and redox and colloid chemistry as applied to environmental engineering.

4150 Integrated Environmental System Design I (3) Prereq.: F Prereq.: EVEG 1410, 1540. Final design will be applied to fundamental design in EVEG 4151. Principles of integrated environmental system design; economic, regulatory, and risk-based requirements; development of preliminary design of environmental systems incorporating minimalization, destruction, treatment, and disposal technologies in all media; emphasis on effective design and screening of classical management systems.

4151 Integrated Environmental System Design II (3) Prereq.: EVEG 1410, 1540. For CE, students will be exposed to a full design, including preliminary design 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 and its ecosystems; concepts and techniques that drive ecodesign; life cycle assessment; full-cost accounting; pollution prevention.

4156 Water and Wastewater Treatment in Developing Countries (3) Prereq.: EVEG 3200 and EVEG 3110. Design of sustainable water and wastewater treatment approaches in the developing world; emphasis on low-maintenance treatment approaches; technology constraints; decentralized treatment strategies; case studies.

4157 Design and In Situ Remediation Processes (3) F Prereq.: EVEG 3110 and EVEG 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.: EVEG 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 department approval. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Selected topics in environmental engineering design.

4781 Special Topics in Environmental Engineering Science (3) Prereq.: senior standing and department approval. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Selected topics in environmental engineering science.

ENVIRONMENTAL MANAGEMENT SYSTEMS • EMS

1011 Environmental 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.

4011 Soil Conservation (2) AGRO 3040. 3050 Environmental Regulations and Compliance (3) F Prereq.: EMS 1011, ENGL 2000. 3 hrs. lecture; 3 hrs. lab. Applications of planning, management, and decision making to environmental policies, systems, and management; evaluation of environmental decision making; environmental ethics; analysis of environmental issues at the local, state, and national levels.

4054 Soil Conservation (2) AGRO 3040. 3050 Environmental Regulations and Compliance (3) F Prereq.: EMS 1011, ENGL 2000. 3 hrs. lecture; 3 hrs. lab. Applications of planning, management, and decision making to environmental policies, systems, and management; evaluation of environmental decision making; environmental ethics; analysis of environmental issues at the local, state, and national levels.

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 water and renewable resources; essential principles and policies that transform the environment into commodities and unwanted waste; use cycles of water from its source through use by society to the environment and back; roles of regulatory agencies.

3999 Undergraduate Research (1-4) F,S,Su Prereq.: permission of instructor. 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 literature-based investigations and other pedagogical approaches.

7057 Advanced Soil Physics (4) F See AGRO 7057.

ENVIRONMENTAL SCIENCES • ENVS

General education courses are marked with ★ (∗).
Environmental Management (3) S
ENVS 7010 Mathematical Modeling in Energy and earth sciences; use of models to predict physical processes; evaluation of alternatives, political action decision processes, and implementation and monitoring.
7042 Environmental Conflict Resolution (3) Preq.: EXST 7003 or 7004 or ENVS 7040. Management-oriented approach to major phases of environmental policy; formulation, implementation, evaluation; theoretical bases and analytical techniques.
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 issues.
7044 Regulation of Toxic Substances (3) Federal laws, regulations, judicial decisions, and policies regarding the development, production, use and disposal of toxic substances; Hazardous Substances Contingency 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 the land use and environmental regulation of land use, including: zoning; subdivision regulation; planned unit development (PUD); comprehensive land use plans on growth and urban sprawl; and regulatory “takings.”
7046 International Environmental Law (3) International legal and political agreements and practices for controlling air 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 Preq.: ECON 4720 or equivalent or consent of instructor. Economic approaches and concepts for achieving 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) Preq.: 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) S Preq.: ENVS 4477 or consent of instructor. Water quality management and policies; the relationship between water quality standards and criteria; total maximum daily loads; federal water quality regulations; watershed approach and application of mathematical models for the analysis of watersheds.
7100 Environmental Toxicology (3) Preq.: CBS 4001. Technical, ecological, and economic considerations relating to air emissions; mechanisms of air toxification and detection of environmental toxicants; their biological effects on current and future trends in agriculture and the chemical, transport, and power industries.
7110 Toxicology of Aquatic Environments (3) Preq.: ENVS 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 toxics in aquatic systems and tidal freshwater coastal areas.
7119 Concepts in Marine Ecotoxicology (3) Preq.: ENVS 7100 and 7110 or permission of instructor. Also offered as OCS 7112. Marine pollution and toxicology of industrial and non-point sources may lead to ecological risk assessment in coastal and marine areas; biological processes and wastes in the ocean; physicochemical processes and reactions; predictions of chronic and acute toxicities in epibiotic, endobiotic and fecal-sestonic habitats; benthic habitats and metal/chemical/sediment availability; Loch Leven ecosystem model; microtixen theory and design for littoral and neritic habitats; approaches to ecological risk assessment in marine habitats.
7161 Water Resources Hydrology and Floodplain Analysis (3) See RNS 7151.
7220 Comparative Metabolism of Environmental Pollutants (3) S Preq.: ENVS 7010. Biochemical systems from various invertebrate, vertebrate, and plant species involved in metabolic activation and detoxification of xenobiotic compounds; use of these systems as biomarkers of pollution impact.
7220 Biochemistry and Toxicology of Metals (3) Preq.: 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; toxic effects of metals that impart specialized biochemical function, as well as toxicity, mutagenicity, carcinogenicity.
7313 Water Quality Management and Analysis (3) Preq.: ENVS 7061 or permission of instructor. Problems and approaches in water quality modeling, with particular attention to model uncertainty, confidence in model predictions, 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 and 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 Preq.: CBS 7603 or consent of instructor. Same as CBS 7662 and BIOL 7622.
7623 Toxicology I (3) Preq.: ENS 4477 or consent of department. Fundamental toxicology, dose response relationship, design and conduct of acute and chronic toxicity tests, basic analytical toxicology, qualitative and quantitative approaches to evaluation and risk assessment, industrial toxicology, principles of toxicology applied to the environment and ecosystems.
7627 Toxicology II (3) Preq.: ENVS 7623 or consent of instructor. Toxicokinetics; xenobiotic transport, distribution, metabolism, excretion; principles of receptor interactions.
7625 Toxicology III (3) Preq.: ENVS 7623 or consent of instructor. Toxicology of major organ systems, to include cerebral, pulmonary, hepatic, cardiovascular, renal, neural, and mammalian species; reproductive toxicology and teratogenesis; testing and screening agents for genotoxic activities; molecular genetic approaches to human and environmental biomonitoring.
7699 Toxicology Seminar (1) See CBS 7699.
7760 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 Independent Study (1-4) May be taken for a max. of 4 hrs. credit. Individual study of a specific environmental problem.
7906 Special Topics in Environmental Sciences (1-6) F,S,Su Research and methodological review of current topics.
7995 Environmental Seminar (1-3) F,S,Su Reports and discussions of student/faculty activities in environmental sciences.
7998 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.
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 ENVS 1000, CBS 1100, and ECE 1000 or equivalent. 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,Su Introduction to statistical analysis; applications to environmental science; confidence interval estimation and hypothesis testing using one and two populations, means and proportions; one-way analysis of simple linear regression and

4012 Introduction to Sampling Techniques (3) Su Prereq.: EXST 2201 or equivalent. Simple random, stratified random, cluster, systematic, multistage, mult unequal probability sampling procedures and methods; 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; graphics and analysis; input and output control of data processing practices.

4050 Principles and Theory of Statistics (4) F Prereq.: MATH 2057 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 intervals; univariate and multivariate hypothesis testing; introduction to the principles of hypothesis testing; modeling; emphasis on links between theory, methodology, and application.

4085 Independent Study I (1–4) 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 hrs. of credit when topics vary.

7003 Statistical Inference I (4) F,S,Su Prereq.: 2 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 distributions, 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.

7004 Experimental Statistics I (4) F Prereq.: 2 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 distributions, 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 location and distribution; measures of dispersion and correlation; analysis of variance; regression; correlation; chi-square; emphasis on social and behavioral sciences research problems. 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; randomized block; Latin square; 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. Credit will be given for only one of the following: EXST 7013, 7014, 7015, 7019. Multiple classification analyses of variance and covariance, interaction and association among variables, analysis of variance by model building, partitioning of variance; tests of specific hypotheses; 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 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.

7022 Statistical Aspects of Quantitative Genetics (3) V Prereq.: EXST 7014 or equivalent and AGRI 2072 or equivalent. Credit will be given for only one of the following: EXST 7013, 7014, 7015, 7019. Multiple classification analyses of variance and covariance; emphasis on general and multiple regression analysis; tests of specific hypotheses, and factorial experiments; emphasis on field-oriented life sciences research problems.

7023 Advanced Topics in Statistical Genetics (3) V Prereq.: EXST 7005 or equivalent and 7022. Topics not covered in other experimental statistics courses, such as multiple 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 and Agricultural 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, point sample techniques, change-in-ratio estimators including capture-recapture and exploitation or catch-per-effort estimators, and home range models.

7025 Biological and Agricultural Statistics II (3) V Prereq.: EXST 6050 or equivalent and 7022. Topics not covered in other experimental statistics courses, such as multiple 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.

7027 Regression Analysis (3) F Prereq.: EXST 7005 or equivalent. Multiple regression and correlation, tests of specific hypotheses, and factorial experiments; emphasis on social and behavioral sciences research problems.

7034 Bayesian Data Analysis (3) V Prereq.: EXST 7013, 7014 or 7015 and EXST 7060 or equivalent. Data analysis and computational techniques for Bayesian inference, including MCMC; model selection; model fitting; model comparison; model checking; parameter estimation; model adequacy; and model checking.

7036 Statistical Categorical Data Analysis (3) F Prereq.: EXST 7013 or 7014 or 7015 or 7019. Nonparametric and parametric techniques used for analyzing data from discrete distributions; contingency tables, logistic and logit models, regression analysis, and repeated measurements; emphasis on computer analysis and interpretation.

7037 Multivariate Analysis (3) F Prereq.: EXST 7013 or 7014 or 7015 or 7019. Analysis of multivariate data; emphasis on classification, clustering, and multivariate analysis of variance.

7038 Statistical Methods for Spatial Data (3) F Prereq.: EXST 7013 or 7014 or 7015 or 7019. Analysis of spatial data; emphasis on spatial data analysis; data topics include spatial correlation, variograms, kriging and spatial interpolation, spatial sampling designs, and system reliability concepts; elastic restrained; accelerated testing.

7039 Statistical Methods for Reliability and Survival Data (3) S Prereq.: EXST 7013 or 7014 or 7015 or 7019. Statistical methods used in the analysis of censored data; emphasis on Kaplan-Meier estimation; parametric models, parametric and nonparametric methods for single distribution data; modeling and application of statistical techniques; survival analysis; nonparametric and parametric survival models; system reliability concepts; failure time analysis; 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, and permission of instructor. 4 hrs. independent study. Pass-fail grading. Supervised application of statistical techniques to research problems; reading and presenting in the statistical consulting; problem-solving; mock consulting sessions; participation in real-life statistical consulting sessions and development of statistical consulting projects under the supervision of graduate faculty.

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.


7086 Advanced Seminar in Statistics I (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 part of the department’s seminar series.

7087 Advanced Topics in Statistics I (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.

7122 Statistical Data Mining (3) F Prereq.: EXST 7013, 7014, 7015, 7019, or equivalent. Data preparation tools; model selection; 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. An introduction to Bayesian statistics and their application in fields such as agriculture, biology, engineering, and medicine; topics include non-informative, conjugate, and elicited priors; posterior distributions; 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 I (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’SU 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.
3115 Financing and Legal Aspects of Entrepreneurship (3) Prereq.: MGT 3115; FIN 3175 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 funding.

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. Analysis of real estate valuation applied to single-family and income-producing real estate; techniques for making investment decisions in alternative real estate property; cash flow analysis considering income tax effects, financial leverage, risk-return trade-offs, and alternative methods of disposition.

3353 Real Estate Financial Management (3) Prereq.: FIN 3351 or 3715 or 3716 or equivalent. Real estate financing decisions for residential and income-producing properties; risk-return analysis applicable to financial leverage 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 in real estate current research issues.

3355 Real Estate 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 nonpecuniary risks and possible alternative methods of treating these risks; the economic role of these methods and 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 for maximizing economic income protection.

3442 Property and Liability Insurance (3) Prereq.: FIN 3440. Property and liability risks; insurance coverages available to meet market needs of potential insurance risks 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 noninsurance methods of pooling and managing risk; identification and evaluation of risk; hedging, self insurance, reinsurance, 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; the role of banks in creating and managing bank assets.

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. Students minoring in business should enroll in FIN 3715. Principles and procedures of financial analysis and forecasting, capital budgeting and financing decisions within the business enterprise.

3717 Advanced Business Finance (3) Prereq.: FIN 3716. Prereq. may be waived with permission of department. Material presented in real-world cases. Hands on applications of financial tools introduced in FIN 3716; financial planning, forecasting, capital budgeting, and business evaluation.

3718 Multinational Managerial Finance (3) Prereq.: FIN 3715 or 3716 or equivalent. Nature of international finance system; financing, investment, and risk management of the multinational corporation.

3826 Investments (3) Prereq.: FIN 3715 or equivalent. Open only to finance majors; open to others with permission of the department. Characteristics and valuation of common stocks, bonds, options, futures, and other derivative instruments; principles of pricing, measurement and accounting of financial risk, and risk-return trade-offs under varying conditions of financial leverage; refinancing; selecting between alternative financing methods; developing investment criteria; valuation methods; secondary mortgage markets, and the pricing of financing instruments.

7320 Advanced Topics in Real Estate (3) Prereq.: FIN 7585 or equivalent. May be taken for a max. of 6 hrs. of credit if topics vary.

7400 Financial Risk Management (3) Prereq.: BADM 7020 or equivalent. Financial risk management of the multinational corporation; the role of financial institutions, governments, and non-profit organizations; characteristics of financial contracts and markets; profit and capital analysis, financial planning, credit risk management problems; the value of risk management, measuring exposures, financial contracts for managing risk, financial risk management of the multinational corporation; accounting and regulatory framework; market and credit risks the primary focus, but some attention is also given to market risk 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 uncertainty and time 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. Advanced topics in financial economics, empirical methodology and empirical methods.

7632 Seminar in Commercial Banking (3) Commercial banking theory and history, quantitative techniques applied to alternative institutions; structure of financial intermediaries; markets and competition, capital adequacy and profitability.

7650 Seminar in Financial Markets and Intermediaries (3) Prereq.: FIN 7550. Primarily for doctoral students. Markets and intermediaries as alternative institutional mechanisms for the structuring of financial transactions; 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 BADM 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 management; insurance and other derivative instruments; alternative decision criteria; implications of uncertainty and imperfect capital markets on firm financial decisions.

7721 Topics in Undergraduate Finance (3) Prereq.: BADM 7070 or equivalent. Detailed treatment of topics not covered in depth in BADM 7070 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 capitalists and the management, the legal environment, and social and ethical norms.

7775 Seminar in Corporate Finance (3) Prereq.: FIN 7550. Primarily for doctoral students. Theory of choice under uncertainty and time preference; investment and financing decisions of the firm; the agency problem and agency costs; corporate structure and dividend models related to corporate control.


7850 Advanced Managerial Finance (3) Prereq.: BADM 7090 or equivalent. Prereq. may be waived with permission of instructor. Course may be repeated for a max. of 9 sem. hrs. of credit. Also offered as ECON 7850. Specific areas in finance and financial economics; emphasis on research and empirical methodology in finance and economics.

7920 Analysis of Corporate Financial Statements (3) Prereq.: BADM 7090 or equivalent. Prereq. may be waived with permission of instructor. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Topics of current interest.

8236 Security Analysis and Portfolio Management (3) Prereq.: BLAW 2000 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.

8380 Analysis of Corporate Financial Statements (3) Prereq.: BADM 7090. Primarily for doctoral students. Analysis of complex financial statements of public and private companies; emphasis on the private pension function, including contractual arrangements, benefit formulas, and approaches to financing.

8450 Financial Derivatives (3) Prereq.: FIN 3636, 3717, or 3826. Open only to finance majors; open to others with permission of department. Theory of choice under uncertainty and time preference; selection and portfolio diversification in an efficient market; portfolio theory and management; portfolio building and selection; portfolio performance evaluations.

8550 Theory of Finance (3) Prereq.: FIN 7550. Primarily for doctoral students. Theory of choice under uncertainty and time preference; investment and financing decisions of the firm; the agency problem and agency costs; corporate structure and dividend models related to corporate control.
French
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
4075 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

277

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.
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 Deparment. 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

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FREN 3071 and 3072 or equivalents or permission of instructor. Major literary, philosophical, and scientific currents of the period and their interrelations.

4031 The Film Image: 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 3000 or equivalent for a max. of 6 hrs. of credit with consent of department, if content varies. Topics focus on an author, movement, or literary mode.

4042 Critical Issues in Teaching French as Second Language (3) O Prereq.: FREN 3401 or equivalent and senior standing. Required of French majors.

May be taken for a maximum of 6 hrs. of 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 cultural context of Francophone Asia.

7140 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) 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 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 morphology.

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 syntactic and semantic phenomena, functional and generative grammar, with emphasis on generative semantics and its relationship to the syntactic component.

7203 Diachrony (3) V Theories 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 Pragmatics 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 hrs. sem. hrs. credit with consent of department, if content varies. Selected movements and thinkers of French theory after 1960.

7915 Independent Study (1-3) V May be taken for a max. of 3 hrs. credit with consent of department, if content varies. Directed individual readings guided by the graduate faculty.

79172 Field Seminar in French Studies (3) Intensive workshop course covering research methods, professionalization training and issues, and contemporary issues of research.
of credit for the doctorate when topics vary. Topics to be announced.

7970 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 Seminar 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. Topics to be announced.

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 or 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 or 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.


★ 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 processes, 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 database.

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.: GEOG 1001 and GEOG 4021. Credit will not be given for both this course and GEOG 4019. 2 hrs. lecture; 2 hrs. lab. Analysis and mapping of geographic structure, lithology, and landforms from aerial photographs.

4045 Environmental Remote Sensing (3) Prereq.: consent of instructor. Use of remote sensing 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

4011 Field Methods in Geography (3) 1 hr. lecture; 4 hrs. lab. Cannot count for credit. Saturdays free. Fall semester emphasis on interpretation of the cultural landscape; spring semester emphasis on the physical landscape.

4012 Environmental 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 Web Mapping (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.

2020 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 proselytizer 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. cities and 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 restrictive 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, Power, and Culture (3) Also offered as ANTH 4807 and WGS 4807. 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 Europe (3) General survey of the physical and cultural geography of the region; focus on economic development and international relations.

4037 Geography of China (3) Physical and cultural geography of the southern U.S.; emphasis on geographic elements identified with the south and their historical development; environment, exploration, population, agriculture, and cultural landscape.

4050 Historical Geography of the South (3) Physical and cultural geography of the southern U.S.; emphasis on geographic 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 measurement methods.

4014 Climatology (3) Prereq.: GEOG 2050 or equivalent. Climatic phenomena; methods in development of regional climatic maps.

4015 Physical Climatology (3) Prereq.: GEOG 4013 or 4014 or equivalent and MATH 1552 or equivalent. May be taken for elective geology credit. Exchange 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 climate and climatically sensitive zones most susceptible to floods, droughts, and other environmental stresses.

4018 Geophysical 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.: GEOG 1001, 1003. May be taken for elective geology credit. Processes that originate and change land and hydrographic forms of alluvial surfaces; emphasis on Louisiana.

4023 Geomorphology of Coastal America (3) Prereq.: GEOG 1001. May be taken for elective geology credit. Basic principles underlying the study of land forms; emphasis on processes shaping the natural landscape; the physical landscape; the natural landscape; the relationship of the earth’s surface to the environment.

4024 Coastal Morphodynamics (3) Prereq.: MATH 1021, 1022, or 1023. See OCS 4024.

4029 Coastal Resources Management (3) Introduction to coastal environments and contemporary global coastal and estuarine management.
4070 Environmental Conservation (3) Factors governing human use of world's natural resources. 4082 Biogeography (3) Different approaches to description and interpretation of plant and soil distribution patterns. 4083 Quaternary Geology (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 and a basic course in historical geology, or equivalent. 2 hrs. lecture; 4 hrs. lab. Field measurements and laboratory analyses of radiation and water budgets in rural environments. 4087 Principles of nuclear geology, classification, stratigraphy, paleogeology, and evolutionary patterns of continental shelves, sea-level changes; morphological, sedimentary, and stratigraphic attributes of coastal and shallow-marine environments.
4035 Advanced Sedimentology (3) Prereq.: GEOG 3032. Field trip required. Physical sedimentary processes in nonmarine and marine depositional systems, including fluvial, alluvial fan, lacustrine, estuarine, 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, GEOG 1001, 2081 or permission of instructor. Earth materials as problems and solutions in environmental issues; physicochemical behavior of asbestosform silicates, silica, zeolites, and associated health hazards; introduction to geological repositories for hazardous waste.
4044 Petroleum Geology (3) Prereq.: GEOG 2081, 3071, and MATH 1550. Modern concepts of origin, migration, entrapment and production of hydrocarbons from sedimentary basins.
4045 Exploration and Environmental Geophysics (3) Prereq.: GEOG 3071 and MATH 1552 or permission of instructor, 2 hrs. lecture; 3 hrs. lab. Principles and methods of acquisition, processing, and interpretation of physical and geophysical data used to investigate the shallow subsurface; seismic refraction, seismic reflection, gravity, magnetic, electrical resistivity, well logs, and ground penetrating radar.
4064 Solid Earth Geophysics (3) Prereq.: GEOG 3071 and MATH 1532. Concepts and methods used to study the structure and dynamics of the earth; rotation, gravity, seismology, heat flow, magnetism, paleomagnetism, radioactivity, and deformation.
4066 Plate Tectonics (3) Prereq.: GEOG 3071.
4072 Advanced Structural Geology (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.: GEOG 2081 and MATH 1550; or equivalent. Principles of nuclear chemistry, radioactive decay, and isotopic fractionation processes; radiometric dating, geochronology, and radiometric dating.
4084 Geoecology (3) Prereq.: GEOG 3032 or BIOL 3001. Consent of instructor. Also offered as BIOL 4084. Microbial effects and controls on geochemistry, geochemical, and ecological processes; biochemical tracers and fossils of microbial mediated processes; introduction to biogeochemical processes.
4085 Geochemistry of Sediments and Natural Waters (3) Prereq.: GEOG 2081 and consent of instructor. Also offered as GEOG 4087. An applied fieldwork problem. Geological, stratigraphical, geochemical, and geophysical techniques employed in the study of sediments, and natural waters.
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 Principles in Analysis (3) Prereq.: GEOG 3032. Basic environment of sediment deposition; sedimentological models and their relationships within depositional basins; analysis of modern and ancient sedimentary rocks in comparison with modern and ancient sedimentary basins.

4164 Deltaic Geology (3) Prereq.: consent of instructor. 2 hrs. lecture; 3 hrs. lab. Processes of deltaic sedimentation and the nature of deltaic sediments; Mississippi River Delta compared to other modern and ancient systems. GEOL 4164, or equivalent.

4165 Subsurface Geology (3) Prereq.: GEOL 1001, 1003, 1601, 1602; PETE 4088 strongly recommended. 2 hrs. lecture; 4 hrs. lab. rheology, faulting, flexure, and heat transfer. GEOL 4165, or equivalent.

4172 Biogeography (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.

4173 Petrology of Sandstones (3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit. GEOL 4173, or equivalent.

7011 Advanced Micropaleontolgy (3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit. Additional advanced topics in micropaleontology.

7012 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) lecture; 3 hrs. lab. Fluid mechanics as related to sedimentation. GEOL 7131, or equivalent.

7133 Sedimentary Petrology 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 relationships and interpretation of depositional environments and mineral paragenesis of ancient carbonate environments. GEOL 7133, or equivalent.

7134 Clay Mineralogy (2) 2 hrs. lecture; 3 hrs. lab. Discussion. Mineralogy, geochemistry, and geology of clay minerals; emphasis on illite, kaolinite, 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 production; reservoir flow modeling and production engineering; emphasis on integration of geology, geophysics, and petroleum engineering; reservoir characterization; reservoir development; and production engineering.

7199 Directed Research in Geology and Geophysics (1-6) May be taken for a max. of 10 sem. hrs. of credit when topics vary. Advanced and/or emerging topics in geology and geophysics.

7301 Advanced Geophysical Techniques (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.

7302 Advanced Metamorphic 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.

7304 Advanced Geophysical Techniques (3) Prereq.: GEOL 3041 or equivalent. 2 hrs. lecture; 3 hrs. lab. Facies cored in theoretical and field relations, textures, and their significance.

7306 Sequence Stratigraphy (3) Prereq.: introductory course in sedimentology, e.g., GEOL 3022. 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 the deposition of submarine fans; principles of sequence stratigraphy.

7307 Fluid 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.

7308 Advanced Hydrogeology (3) Prereq.: GEOL 3032 or equivalent. 2 hrs. lecture; 2 hrs. lab. Hydrogeology is the study of groundwater natural resources; groundwater occurrence; groundwater movement and storage; groundwater chemistry; groundwater quality; and groundwater use.

7309 Advanced Geophysical Techniques (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.

7310 Numerical Methods in the Geological Sciences (3) Prereq.: CSC 2262, MATH 1552, and GEOG 4041 or equivalent. Numerical methods applied to geological research; interpolation and extrapolation; nonlinear equations, solutions of simultaneous linear equations, least squares approximations, numerical integration, numerical solutions of differential equations, and Fourier transforms. GEOL 7310, or equivalent.

7356 Geodynamics (3) Prereq.: MATH 2057 and 2090 or equivalent; and GEOG 4041 or equivalent. Fundamental physical processes involved in plate tectonics and other geological phenomena; concepts in mantle convection, rock rheology, faulting, flexure, and heat transfer.

7361 Advanced Isotope Geology (3) Prereq.: consent of instructor. 2 hrs. lecture; 2 hrs. lab. Demonstration. Stable isotope fractionation in natural systems; emphasis on oxygen, hydrogen, carbon, nitrogen, sulfur, strontium, barium, carbon dioxide, and other natural processes and fractionation in meteoric waters, carbonates, and silicates with application to the solution of petrologic problems.

7368 Isotopes in Geology (3) Prereq.: GEOL 4083 or consent of instructor. 2 hrs. lecture; 3 hrs. lab. Principles of thermal ionization mass spectrometry; chemical preparation and sample preparation for isotopic measurements; use of multicollector secondary source mass spectrometer; applications to geologic studies.

7369 Paleogeography (3) Prereq.: GEOG 4081 or consent of instructor. May be taken for a max. of 6 hrs. of credit. GEOL 7369, or equivalent.

7371 Advanced Paleomagnetolgy (3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit. Advanced topics in paleomagnetism.

7375 Micropaleontology (3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit. Topics include taphonomy; biostratigraphy, and the taphonomy of specific areas.

7376 Micropaleontology (3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit. Topics include taphonomy; biostratigraphy, and the taphonomy of specific areas.

7377 Micropaleontology (3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit. Topics include taphonomy; biostratigraphy, and the taphonomy of specific areas.


GERMAN ∗ GERM

Native speakers of German will not receive credit for courses marked with an asterisk (∗).

*1101 Elementary German (4) Basic lexicon and structures of German; emphasis on communicative language use; supplementary work in language and cultural contexts.

*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 cultural contexts.

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 many non-German study programs. The course may not be used as a component of 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 German style: art, literature, music, and philosophy in an historical context.

2090 German Mythology (3) Knowledge of German not required. Also offered as HIST 2090. Development of the German style: art, literature, music, and philosophy in an historical context.

*2101 Intermediate German (3) Prereq.: GERM 1102 or equivalent. Concurrent course in written, oral, and visual communication with an emphasis on lexicon of spoken German; 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: written and oral communication, written discourse; 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 2105 or equivalent. Readings from, and an historical overview of, the Middle Ages, the Renaissance, the Reformation, and the Baroque period.

3082 Survey of German Literature and Culture: 1700-1830 (3) Prereq.: GERM 2155 or equivalent. Readings from, and an overview of, the Enlightenment, Storm and Stress, Weimar Classicism, and Romanticism.

3083 Survey of German Literature and Culture: 1830-1930 (3) Prereq.: GERM 2155 or equivalent. Readings from, and a historical overview of, the Biedermeier/Vormarz, Realism, and Naturalism.

3084 Survey of German Literature and Culture: 1930-present (3) Prereq.: GERM 2155 or equivalent. Readings from, and a historical overview of, Expressionism, New Objectivity, and the Group 47, GDR literature, and Post-Moderndiz. Also offered as HIST 3084. May be taken for a max. of 9 sem. hrs. of credit when topics vary. General education courses are marked with stars (∗).
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 2002 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 to the Reformation. May be taken for a max. of 6 hrs. of credit when topics vary.

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.

1006 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 civilizations of the peoples of the eastern Mediterranean from the beginning of civilization to the fall 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.

2003 Fall: World History to 1453 (3) Major events of the world since 1453. May be taken for a max. of 6 hrs. of credit when topics vary.

2004 Fall: Western Civilization Since 1500 (3) Major events of the world since 1500. May be taken for a max. of 6 hrs. of credit when topics vary.

2005 Fall: World History to 1815 (3) Major events of the world since 1815. May be taken for a max. of 6 hrs. of credit when topics vary.

2006 Fall: Western Civilization Since 1914 (3) Major events of the world since 1914. May be taken for a max. of 6 hrs. of credit when topics vary.

2007 Fall: World History to 1945 (3) Major events of the world since 1945. May be taken for a max. of 6 hrs. of credit when topics vary.

2008 Fall: Western Civilization Since 1945 (3) Major events of the world since 1945. May be taken for a max. of 6 hrs. of credit when topics vary.

2009 Fall: World History to 1990 (3) Major events of the world since 1990. May be taken for a max. of 6 hrs. of credit when topics vary.

2010 Fall: Western Civilization Since 1990 (3) Major events of the world since 1990. May be taken for a max. of 6 hrs. of credit when topics vary.

2011 Fall: World History to 2000 (3) Major events of the world since 2000. May be taken for a max. of 6 hrs. of credit when topics vary.

2012 Fall: Western Civilization Since 2000 (3) Major events of the world since 2000. May be taken for a max. of 6 hrs. of credit when topics vary.

2013 Fall: World History to 2015 (3) Major events of the world since 2015. May be taken for a max. of 6 hrs. of credit when topics vary.

2014 Fall: Western Civilization Since 2015 (3) Major events of the world since 2015. May be taken for a max. of 6 hrs. of credit when topics vary.

2015 Fall: World History to 2020 (3) Major events of the world since 2020. May be taken for a max. of 6 hrs. of credit when topics vary.

2016 Fall: Western Civilization Since 2020 (3) Major events of the world since 2020. May be taken for a max. of 6 hrs. of credit when topics vary.

2017 Fall: World History to 2025 (3) Major events of the world since 2025. May be taken for a max. of 6 hrs. of credit when topics vary.

2018 Fall: Western Civilization Since 2025 (3) Major events of the world since 2025. May be taken for a max. of 6 hrs. of credit when topics vary.

2019 Fall: World History to 2030 (3) Major events of the world since 2030. May be taken for a max. of 6 hrs. of credit when topics vary.

2020 Fall: Western Civilization Since 2030 (3) Major events of the world since 2030. May be taken for a max. of 6 hrs. of credit when topics vary.

2021 Fall: World History to 2035 (3) Major events of the world since 2035. May be taken for a max. of 6 hrs. of credit when topics vary.

2022 Fall: Western Civilization Since 2035 (3) Major events of the world since 2035. May be taken for a max. of 6 hrs. of credit when topics vary.

2023 Fall: World History to 2040 (3) Major events of the world since 2040. May be taken for a max. of 6 hrs. of credit when topics vary.

2024 Fall: Western Civilization Since 2040 (3) Major events of the world since 2040. May be taken for a max. of 6 hrs. of credit when topics vary.

2025 Fall: World History to 2045 (3) Major events of the world since 2045. May be taken for a max. of 6 hrs. of credit when topics vary.

2026 Fall: Western Civilization Since 2045 (3) Major events of the world since 2045. May be taken for a max. of 6 hrs. of credit when topics vary.

2027 Fall: World History to 2050 (3) Major events of the world since 2050. May be taken for a max. of 6 hrs. of credit when topics vary.

2028 Fall: Western Civilization Since 2050 (3) Major events of the world since 2050. May be taken for a max. of 6 hrs. of credit when topics vary.

2029 Fall: World History to 2055 (3) Major events of the world since 2055. May be taken for a max. of 6 hrs. of credit when topics vary.

2030 Fall: Western Civilization Since 2055 (3) Major events of the world since 2055. May be taken for a max. of 6 hrs. of credit when topics vary.

2031 Fall: World History to 2060 (3) Major events of the world since 2060. May be taken for a max. of 6 hrs. of credit when topics vary.

2032 Fall: Western Civilization Since 2060 (3) Major events of the world since 2060. May be taken for a max. of 6 hrs. of credit when topics vary.
Credit will not be given for this course, HNRS 1101 and CLST 2101. Curricular equivalent of a humanities elective. The ancient world, including the development of human history, philosophy, religion, government, and fine arts.

**1003 Lectures in Ancient Western Civilization (3)**
Coreq.: HNRS 1101. Credit will not be given for this course and HNRS 1105. Curricular equivalent of a 3 hr. history, social sciences, or humanities elective. Lectures, readings, and examinations coordinated with HNRS 1105.

**1007 Introduction to Life Sciences (4)** 2 hrs. lecture; 4 hrs. lab. Not open to students who have had BIOL 1001, 1002, 1201, 1207, 1208, or 1503. Continuation of HNRS 1007. 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, 1207, 1208, or 1503. Continuation of HNRS 1007.

**1035 History 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 in the Life Sciences.

**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 1101 or HNRS 1110. Coreq.: HNRS 2002. Lectures, readings, and examinations coordinated with HNRS 1110.


**2011 The Age of Enlightenment (3)** Curricular equivalent to ENGL 2000. Literature, philosophy, history, art, and science of the age of enlightenment.


**2020 Installation and Maintenance of Ornamentals in the Landscape I (2) 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.**

**2021 Installation and Maintenance of Ornamentals in the Landscape II (2)** S Preq.: HORT 2020. Credit will not be given for this course and HNRS 2020.

**2851 Natural Science Colloquium (3)** S Preq.: BIOL 1202 or AGRO 2031 or equivalent. Credit will not be given for this course and HNRS 2031. Curricular equivalent of a humanities elective. The ancient world, including the development of human history, philosophy, religion, government, and fine arts.

**2860 Growth and Development of Agricultural Crops (3)** Prereq.: CHEM 1002 and BIOL 1202 or BIOL 202. 2 hrs. lecture; 2 hrs. lab. Thematic approach to the evolution of life, plant and animal classification, and management practices for trees in the landscape.
3000 Horticultural Internship (3) Prereq.: HORT 2050 and written consent of instructor. May be taken for a max. of 6 sem. hrs. credit. Experience in horticultural enterprises culminating in acceptable written reports and a presentation.

3010 Research/Proposal (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 or written presentation.

3015 Urban Landscape Management (3) S-E Prereq.: HORT 2050, 2124 or equivalent. 2 hrs. lecture; 2 hrs. lab. Management of urban landscapes through proper installation of soil management, plant care, pesticide management, employ-ee management, and cost accounting.

3040 Landscape Construction (2-5) 1 hr. lecture; 2 hrs. lab. Survey of construction techniques and materials used in landscape contracting including drainage systems, paving, residential, malls, decks, 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. credit when topics vary. Lab/fielld trip may be required. Subject areas not covered in other horticulture courses.

4020 Tropical/Chemical Diseases (3) S-E Prereq.: 3 hrs. lecture; 2 hrs. lab. Physiology and greenhouse production of horticulture crops with hands-on learning in production practices, disease development, economic analysis, regulation of crop growth and development and general physiology of flowering pot plants. Prereq.: HORT 2050 and Tropical Nut Crops (3) S-O Prereq.: HORT 2050 or equivalent. World situations, production practices, pest management, 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-E Prereq.: HORT 2050 or equivalent. Overview of the horticulture industry worldwide. Production, handling, marketing, and international trade presented in a global context.

4050 Horticultural Science Education (3) F 2 hrs. lecture; 2 hrs. lab. May be taken for a max. of 6 sem. hrs. of credit. Methodology for teaching horticulture 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 in various processing facilities. Focus on construction of fruit and vegetable processing plants, including process layout and sanitary considerations.

4064 Local Agriculture Marketing (3) S-E Prereq.: HORT 2050 or equivalent. 2 hrs. lecture; 2 hrs. lab. Required field trips. Principles of the horticultural 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, county, and regional fruit and nut industry; marketing and production strategies.

4090 Golf Course Operations (4) S-E 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 3860. 3 hrs. lecture; 2 hrs. lab. Physiological changes involved with storage and handling of fruits and vegetables; current practices used in extending shelf-life; basic and applied laboratory exercises.

6011 Topics in Plant, Environmental and Soil Sciences for Teachers (3) See EMS 6011.

7050 Advanced Plant Breeding (4) S-E Prereq.: BIOL 4024. PLHL 3860, HORT 2051. 2 hrs. lecture; 6 hrs. lab. The in vitro culture of selected higher vascular plants; media preparation; cell; cell and organ cultures; protoplast isolation, culture, and fusion; embryo genesis and plantlet regeneration and haploid culture.

7070 Advanced Plant Breeding (6) S-E See AGRO 7900, 7901, 7902; AGRO 2072 or equivalent. See also AGRO 7907. Theory and practical application of cytogenetics, extraxromosomal inheritance, and molecular 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”Y” grading. 8900 Dissertation Research (3-12 per sem.) Prereq.: consent of department head. May be taken for a max. of 6 hrs. of credit when topics vary, Pass-fail grading. Students must submit the final report of this course only once.

9090 Dissertation Research (1-12 per sem.) S”Y” 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—human nutrition and food; 3 and 4—apparel, textiles and merchandising; 5 and 6—child and family studies; 7 and 9—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 development; relations and responsibilities 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 majors. Unspecified 1-6 hrs. of reading and research. Consent of instructor. May be taken for a max. of 6 hrs. of credit. Students are responsible for registering with a faculty member with whom they are working and with the department. Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit 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 hrs. of credit may be applied toward a max. for a max. of 3 hrs. of credit. F”Y” grading. Research reports and discussion of current topics and issues in human ecology.

7093 Advanced Research Project 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 applied research projects. Prereq.: HUEC 7092. 2 hrs. lecture/field experience. Prereq.: 3050 or AGEC 3881, and 3881, 2 hrs. lecture/field experience in multilevel, multicultural settings. Ways of instructing and assessing success in human ecology laboratory situations.

7096 Assessment and Planning for Reflective Instruction (3) Prereq.: Concurrent enrollment in HUEC 3050H. 3 hrs. lecture/field experience. Prereq.: 3050 or equivalent. 6 hrs. lab/fielld 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 affecting family life in America; marriage, divorce, and child custody.

4055 Principles and Practices in Kindergarten Education (3) Prereq.: HUEC 4053 or PSYC 2076; 2.50 gpa required for registration; same as EDCT 4055. Classroom observation and instructional practice to achieve the pre-academic objectives for the kindergarten as an entry point into the elementary school.

4065 Methods of Teaching Nursery School and Kindergarten (3) Prereq.: HUEC 4053 or PSYC 2076; 2.50 gpa required for registration; 2 hrs. lecture; 2 hrs. lab. Same as EDCT 4057. Essentials of successful involvement with children from various socioeconomic and cultural groups at the nursery/Kindergarten level; philosophy, teaching methods, and practical, field learning experiences for the child under six.

4058 Student Teaching in the Kindergarten (5) Prereq.: permission of instructor; EDCT 4055 or registration in EDCT/HUEC 4055 for undergraduates; credit or
4050 Organization and Administration of Early Child­hood Programs (3) Prereq.: HUEC 2083 or consent of department, historical, cultural, and philosophical foundations; financial, budgeting, staffing, duties, and legal aspects, equipment and physical plant, parent education, and community involvement.
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 3055. 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.: consent of instructor. Internship (unpaid) in family, child, and consumer sciences; research and existing models of parent involvement.
7065 Management (3) Prereq.: consent of instructor. Principles and management of individual and family resources, including identification and evaluation; principles of resources and management satisfaction for individual and family goals. 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 dietetics profession; effectiveness of this educational area 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.

2041 Food and Nutritional (4) F 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.
2110 Methods of Nutritional Assessment (3) Prereq.: HUEC 2100 or consent of instructor. Medical nutritional assessment; the child's ecology and impact on health; counseling for the child.
2010 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 the child.
2012 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.
2019 Quality Food 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.
2021 Quantity Food Production Laboratory (2) Prereq.: credit or registration in HUEC 2019. 4 hrs. lab. Principles of quantity food production illustrated by demonstrations, observations, studies, and laboratories; use and calculation 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 design, implementation, and evaluating community nutrition programs.
4010 Human Nutrition (3) F Prereq.: grade of C or better in HUEC 2010 or BIOL 2083 or equivalent; HUEC 2110; energy metabolism and the functions, requirements, and food sources of nutrients.
4011 Medical Therapy I (3) F Prereq.: grade of C or better in BIOL 2160 or 2151 and in BIOL 2083 or 4097 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. clinical nutrition; contemporary nutritional assessment; and diet counseling.
4017 Applied Medical Nutrition Therapy II (2) S Prereq.: HUEC 4011, 4013, and credit or registration in HUEC 4017. 3 hrs. lab. Clinical nutrition; contemporary nutritional assessment; and diet counseling.
4023 Management in Dietetics (3) S Prereq.: ACCT 2000; HUEC 3200; Senior dietetics students only. 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) S 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 practical experience in the dietetics profession.
4110 Capstone in Nutritional Sciences (3) Prereq.: EXST 2205; HUEC 2019; credit or registration in HUEC 3011 or equivalent; senior standing in nutritional sciences; research project is included.
7007 Nutritional Disorders (3) Prereq.: Consent of instructor. Nutritional deficiencies (protein, lipids, and carbohydrates; deficiencies, interrelationships, requirements, and metabolic pathways.
7009 Toxicology in Microorganisms (3) Prereq.: Consent of instructor. May be taken for a max. of 8 sem. hrs. of credit when the topic varies. An integrated system approach to the interaction and functioning of vitamins and minerals in nutrition. Epidemiological to molecular aspects discussed.
7004 Molecular and Clinical Nutrition I (2) F Prereq.: BIOL 4087 or 4093 or permission of the instructor. 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 6 hrs. of credit when topics vary. Recent research and developments in food, nutrition, dietetics, or food systems.
7013 Advanced Human Nutrition (3) F Prereq.: BIOL 4087 or 4093, or consent of instructor. Human nutrition requirements, evaluation of nutritional status, and problems related to kind and amount of food.
7019 Advanced Medical Therapy (3) S Prereq.: HUEC 4014 or equivalent and consent of instructor. Principles of nutrition therapy and intervention strategies in specific clinical diseases; rationale for biochemical and physiological bases of therapy.
7004 Seminar in Nutrition (1) Same as FSDC 7094. May be taken for a max. of 2 hrs. of credit. Prereq.: ANSC 7091, DARY 7091, FIDC 7071, HUEC 7010, PLS 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 Apparel Design concentration only. 2 hrs. lecture; 4 hrs. lab. Fundamental principles of garment design, fabric characteristics, and production processes; analysis of fit; alterations.
2051 Textile Science (3) F S Prereq. Physical, biological, and chemical characteristics of fibers, yarns, and fabrics; selection, maintenance, and performance of textiles.
2056 Textile Scientific Evaluation (3) S Prereq. credit or registration in HUEC 2040. 3 hrs. lab. Introduction to

registration in EDCI/HUEC 4055 for students with elemen­
tary certification. 40 hrs. practicum. 2.50 or better gpa required for student teaching. Supervised experiences in planning and guiding children's activities in kindergarten programs for varied cultural groups and socio­economic levels. 7843 Early Childhood Education (3) See EDCI 7843.
Human Resource Education 287

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 form letters, 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.

2000 Document Production (3) Prereq.: HRE 1003 or equivalent. 6 hrs. lecture. Application of advanced word processing functions to the production of letters, documents, and reports: specialized documents and correspondence, legal, medical, technical; emphasis on production skills.

2001 Foundations of Human Resource Education (3) F 2 hrs. lecture; 2 hrs. lab. Introduction to the economic, sociological, and political influences on the historical development of workforce education; organization and delivery of workforce education and training at the secondary and post-secondary levels.


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; domestic and industrial circuits.

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 Takoff (3) V 6 hrs. lecture; 2 hrs. lab. Takoff reading of the mechanical and building trades; freehand shop sketching, materials takeoff, and estimating.

2045 Fundamentals of Air Conditioning and Refrigeration (3) V 1 hr. lecture; 4 hrs. labs. Materials, components, functions, and application of air conditioning and refrigeration systems; problems in equipment performance, operation, inspection, repair, and maintenance.

2053 Occupational Safety (3) F 6 hrs. lab. Identification of accident-preventing conditions and practices in plant facilities, materials handling, machine safeguarding, hand tools, and occupational health.


2620 Practicum in Business and Office Education (2) 2 hrs. lecture; 6 hrs. lab. Course designed for students who are employed in business and office education.

2621 Practicum in Distribution Education (2) One-hour weekly seminar with instructor to discuss topics relative to students' job. Actual office experience of at least 10 hrs. per week providing on-the-job training in a clerical, sales, or bookkeeping position.

2723 Introduction to Leadership Development (3) F 4 hrs./lab. HRE 2723 is introduced to leadership concepts. HRE 2723 is also included in the leadership development series.
students understanding their personal traits, values, characteristics, and development tasks as a foundation for leadership development. For HRE 3064 and HRE 3065, managing the human resource education curriculum, incorporating methods and materials of The World of Human Resource Development (HRD). For HRE 3065, Field Experience Resource Management (F) Prereq.: concurrent registration in or credit for HRE 3065 and 3067. This course strives to prepare today’s teachers/trainers to achieve their goals of delivering courses to students who are living in a complex, interdependent world. Each of the various diversities addressed in this course mediate one another and interrelate with each other further complicates an educator’s task, but is nonetheless critical to an understanding of classroom interaction.

For HRE 3055, Occupational Analysis Techniques (3) F Prereq.: concurrent enrollment in or credit for HRE 3055 and 3064. The purpose of this field experience is to expect learners to develop methods for understanding learning process and apply skills for facilitating the process. The course provides detailed guidance for learners on different activities in the education laboratory, participating with the classroom teacher, and then reflecting on the experience. Motivation, classroom management, and teaching strategies are the focal areas of the experience.

For HRE 3072, 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.

For HRE 3074, Human Resource Development (HRD) Training and Development.

For HRE 3011, Instructional/Curriculum Design for Human Resource Education (3) F Curriculum, course unit, and lesson plan development in human resource; selection and evaluation of instructional materials; instructional design.

For HRE 3011, Instructional Design for Training (3) Prereq.: HRE 3071. Principles and practices of instructional design for developing effective training; course, unit, and lesson development.

For HRE 3020, Records Management (3) Principles of recordation, 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.

For HRE 3020, Presentation Methods in Human Resource Education (3) S Recognized methods of group presentation and individual presentation.

For HRE 3021, Leading Learning in Human Resource Development (3) S Prereq.: HRE 3071. Introduction to the principles and practices of instructional strategies to facilitate learning in training and development; methods for leading learning in traditional classroom training; on-the-job training; small group learning; computerized instruction.

For HRE 3031, Strategic Career Development/Planning (3) Prereq.: Sophomore standing or higher 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.

For HRE 3040, Office Management (3) Facilitating office work through management of environment, organization, communication, personnel, systems, productivity, and cost factors.

For HRE 3040, 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.


For HRE 3063, Classroom Management in Human Resource Education (1) V Prereq.: concurrent enrollment in HRE 3604 and HRE 3605. Managing the human resource education classroom student behavior; techniques for preventing, diagnosing, and handling student discipline problems.

For HRE 3069, Human Resource Development in Learning Human Resource Education (1) V Prereq.: concurrent registration in or credit for HRE 3603 and HRE 3605. This course strives to prepare today’s teachers/trainers to achieve their goals of delivering courses to students who are living in a complex, interdependent world. Each of the various diversities addressed in this course mediate one another and interrelate with each other further complicates an educator’s task, but is nonetheless critical to an understanding of classroom interaction.

For HRE 3067, System and Product Safety (3) Prereq.: HRE 3065. Application of system safety analysis and product safety methodologies to contemporary loss prevention programs.

For HRE 3067, System and Product Safety (3) Prereq.: HRE 3065. Application of system safety analysis and product safety methodologies to contemporary loss prevention programs.

For HRE 3063, Classroom Management in Human Resource Education (1) V Prereq.: concurrent enrollment in HRE 3604 and HRE 3605. Managing the human resource education classroom student behavior; techniques for preventing, diagnosing, and handling student discipline problems.

For HRE 3069, Human Resource Development in Learning Human Resource Education (1) V Prereq.: concurrent registration in or credit for HRE 3603 and HRE 3605. This course strives to prepare today’s teachers/trainers to achieve their goals of delivering courses to students who are living in a complex, interdependent world. Each of the various diversities addressed in this course mediate one another and interrelate with each other further complicates an educator’s task, but is nonetheless critical to an understanding of classroom interaction.

For HRE 3065, Field Experience Resource Management (1) V Prereq.: concurrent registration in or credit for HRE 3604 and 3605. The purpose of this field experience is to expect learners to develop methods for understanding learning process and apply skills for facilitating the process. The course provides detailed guidance for learners on different activities in the education laboratory, participating with the classroom teacher, and then reflecting on the experience. Motivation, classroom management, and teaching strategies are the focal areas of the experience.

For HRE 3722 and 3723, An honors course, HRE 3724, is also available. Survey of leadership theory, concepts, and research; emphasis on understanding the foundational concepts of modern leadership.

For HRE 3074, Human Resource Development (HRD) Training and Development.

For HRE 3011, Instructional/Curriculum Design for Human Resource Education (3) F Curriculum, course unit, and lesson plan development in human resource; selection and evaluation of instructional materials; instructional design.

For HRE 3011, Instructional Design for Training (3) Prereq.: HRE 3071. Principles and practices of instructional design for developing effective training; course, unit, and lesson development.

For HRE 3020, Records Management (3) Principles of recordation, 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.

For HRE 3020, Presentation Methods in Human Resource Education (3) S Recognized methods of group presentation and individual presentation.

For HRE 3021, Leading Learning in Human Resource Development (3) S Prereq.: HRE 3071. Introduction to the principles and practices of instructional strategies to facilitate learning in training and development; methods for leading learning in traditional classroom training; on-the-job training; small group learning.

For HRE 3031, Strategic Career Development/Planning (3) Prereq.: Sophomore standing or higher 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.

For HRE 3040, Office Management (3) Facilitating office work through management of environment, organization, communication, personnel, systems, productivity, and cost factors.

For HRE 3040, 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.


For HRE 3063, Classroom Management in Human Resource Education (1) V Prereq.: concurrent enrollment in HRE 3604 and HRE 3605. Managing the human resource education classroom student behavior; techniques for preventing, diagnosing, and handling student discipline problems.

For HRE 3069, Human Resource Development in Learning Human Resource Education (1) V Prereq.: concurrent registration in or credit for HRE 3603 and HRE 3605. This course strives to prepare today’s teachers/trainers to achieve their goals of delivering courses to students who are living in a complex, interdependent world. Each of the various diversities addressed in this course mediate one another and interrelate with each other further complicates an educator’s task, but is nonetheless critical to an understanding of classroom interaction.
4724 HONORS: Advanced Leadership Development (3) F Prereq.: HRE 2724 and 2734; Honors College students only. Same as HRE 2724. Students are encouraged to participate in the program.

4801 Teaching Internship: Professional (3) V Prereq.: concurrent enrollment in HRE 4802 and 4803. Permission of instructor. Professional responsibility; teacher association work; parent, teacher, and student organization activities; school visits and certification preparation. Not for graduate credit. Evaluation of the student’s lesson preparation, demonstration ability, laboratory organization, participation in class activities, and evaluating teaching excellence.

4802 Internship: Preparation (3) V Prereq.: concurrent enrollment in HRE 4801 and 4803. 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 excellence.

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) F,S Prereq.: 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 techniques to quickly train and have a top performing new employee and avoid typical mistakes college graduates make as new employees.

4806 Making the Transition from College to Work (9) V Prereq.: Permission of instructor. Professional responsibilities including developing instructional materials; delivering instruction in the 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 materials; delivering instruction in the 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 (3-12) F,S,Su May be taken for a max. of 6 sem. hrs. credit. Not for graduate 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. Prerequisite: Permission of instructor. Current practices and technological advances in agricultural education.

4839 Special Topics in Industrial Education (1-3) V May be taken for a max. of 6 sem. hrs. credit when topics vary. Prerequisite: Permission of instructor. Current practices and technological advances in industrial education.

4839 Special Topics in Business Education (1-3) V May be taken for a max. of 6 sem. hrs. of credit when topics vary. Prerequisite: Permission of instructor. Current practices and technological advances in business education.

4869 Special Topics in Home Economics Education (1-3) V 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 human resource education and development programs conducted by business, industry, government, and educational institutions at all levels; relationships to adult education, career and technical education, human resource businesses such as top-down, 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 resources; current issues and practice.

7016 Foundations of Agricultural Education (3) V Events and organizations that contributed to the development of agricultural education and programs conducted by business, industry, government, educational institutions at all levels; relationships to adult education, career and technical education, human resource businesses such as top-down, career development, general education, and society.

7024 Comparative Extension Education (3) V Preq.: HRE 7222 or equivalent. Comparative analysis of systems of extension education in a world-wide basis.

7025 Advanced Adult Learning Theory and Practice (3) Advanced study of adult learning theory and research; emphasis on the role of 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 training in work environments; emphasis on research and practice in industrial education.

7056 Foundations of Business Education (3) V Historical foundations; current practices and technological advances in business education in public secondary education.

7110 Advanced Instructional/Curricular Design in Human Resource Education (3) V Principles of instructional design; their impact on the learning process; practical implementation.

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.

7124 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 Education (3) V Principles and methods of instructional design; their impact on the learning process; practical implementation.

7201 Advanced Teaching Techniques in Human Resource Education (3) F,S,O Precepts underlying the human resource education teacher’s role in effective human resource teaching methods and strategies.

7202 Systems of Teaching and Learning Styles (3) V Analysis of instruction and process instruction; interrelationships with personality, leadership, management, supervision, administration; applications in education, business, industry, formal and nonformal settings.

7203 Discipline in Human Resource Education (3) V Human resource education discipline, knowledge; problem solving; emphasis on models of discipline and development of a personal philosophy of discipline.

7207 Teaching in Higher Education (3) F,S Methodology for planning and developing effective educational programs in higher education; 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. Teaching theory, principles, and research of instructional systems design (IED) in human resource education (HRD) and its impact on teaching.

7221 Advanced Teaching Techniques in Human Resource Education (3) V Principles and applied practices in developing programs in home and family life education for multicultural groups.

7222 Principles and Practices of Extension Education (3) V Preq.: HRE 7122 or equivalent. Teaching theory, principles, and research of instructional systems design (IED) in human resource education (HRD) and its impact on teaching.

7225 Improvement of Instruction in Keyboarding, Word Processing, and Business Economics (3) V Techniques and strategies related to the teaching of clerical skills.

7235 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) V Students, 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 HRE 7332. Basic principles of analysis of educational, occupational, and social information; occupational trends and surveys; use of occupational information in job placement and related areas.

7334 Vocational Counseling (3) V See ELRC 7334.

7332 Advanced Vocational Counseling (3) V See ELRC 7332.

7349 Internship in Vocational Counseling (3) V See ELRC 7349.

7378 Field Experiences in Vocational Counseling (3) V See ELRC 7378.

7401 Administration of Adult Human Resource Education Programs (3) V Role of adult education as a component of vocational education in contemporary society; program components: program initiation, development, financing, administration, and evaluation.

7414 Androgogy in Agricultural Education (3) V Principles and methods of teaching adults in agricultural education programs.

7571 Performance and Needs Analysis in Human Resource Development (3) V Principles and methods used in the analysis of performance problems in organizations; emphasis on the application of performance theory and use of tools and techniques for planning, implementing, and operating extension programs, and individual level performance problems.

7573 Strategic Human Resource Development for Globalization (3) V Theory and practices 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) V 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 interrelationship between change and management 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.

7701 Supervision in Human Resource Education (3) V Principles of supervision in workforce teaching at all levels.

7703 Supervision of Professional Field Experiences in Human Resource Education (3) V Philosophy, principles, policies, and procedures in supervision of student teaching in human resource education.

7716 Organization, Administration, and Supervision of Performing Arts Education (3) V Theory, principles, and practices of organization and supervision of vocational teaching.

7725 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 theories 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 aspects of teaching and supervising secondary and post-secondary vocational trade and industrial education programs and staff development, strategic planning, workforce education leadership.

7785 Program Improvement in Human Resource Education (1-3) F,S,Su Preq.: permission of instructor. Legislative, societal, and educational concerns affecting the delivery of business and human resource education.

7801 Current Problems in Human Resource Education (1-3) F,S,S Preq.: 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 in human resource education.

7809 Practicum for the Human Resource Educator (3-9) F,S,S Preq.: permission of instructor. Practical experience under the guidance of practicing vocational educators in various educational settings.

7812 Technological and Professional Education (3) V Scientific developments in agriculture; their impact on programs in agricultural education.

7824 Advanced Histo Research Seminar (1) V May be taken for a max. of 3 hrs. credit. A minimum of 1 sem. hr. required at master's level; minimum of 2 sem. hrs. required at the doctoral level. Not for graduate credit.

7848 Adult Learning in Human Resource Development (3) F Preq.: concurrent enrollment in HRE 4801 and 4802. Permission of instructor. May be taken for a max. of 6 sem. hrs. credit when topics vary. Selected topics in human resource education.
Prereq.: IE 4425 Information Systems Engineering (3) Prereq.: grade of C or better in IE 3520. Principles and practice of quality assurance and control; theory of statistical sampling and control charts; Process Control; simulation; Quality Systems; Six Sigma principles and practice.


4463 Fundamentals of Industrial Hygiene Engineering (3) Prereq.: senior standing. Principles of industrial hygiene with emphasis on human aspects of health and safety. Prerequisites: human factors and systems engineering.

4464 Biomechanics for Engineers (3) See IE 4323. Biomechanics for Engineers (3) Prereq.: IE 4206 or equivalent. Systems approach to the identification, design, analysis, and development of human-operated information processing systems and control and data processing systems, and computers for industry, military, health, systems, and education. Prerequisites: human factors and systems engineering.


4480 Manufacturing Automation (3) Prereq.: IE 3201 and ME 3631. 2 hrs. lecture; 3 hrs. lab. Application of computer-based control systems to manufacturing automation; programming of numerically controlled machine tools using Compact II and II; robotics with multidegree of freedom linkages; NC programming using CAD/CAM; computer-automated part programming. Prerequisites: human factors and systems engineering.

4485 Systems Design in Manufacturing (3) Prereq.: IE 2060, ME 3633, IE 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. Prerequisites: human factors and systems engineering.

4490 Engineering Maintenance Management (3) Prereq.: IE 1002, ME 3630, CE 5420. Topics in engineering maintenance, including maintenance management and economics, reliability and maintenance planning, decision making, and improvement of maintenance systems. Prerequisites: human factors and systems engineering.

4520 Supply Chain Logistics II (3) Prereq.: grade of C or better in IE 3520. Production logistics: forecasting, aggregate production, inventory systems, and materials management. Prerequisites: human factors and systems engineering.


4540 Reliability Engineering (3) Prereq.: IE 3520. Reliability analysis, system reliability, component reliability, and redundancy design. Prerequisites: human factors and systems engineering.

4570 Special Topics in Industrial Engineering (1-3) Prereq.: senior standing and consent of department. May be taken a maximum of 6 hrs. of credit. Two sections may be taken concurrently if topics vary. Topics in industrial engineering not otherwise covered in other undergraduate courses.

7201 Advanced Engineering Economy (3) Prereq.: IE 3201 or equivalent. Engineering economic analysis, multi-phase and constrained optimization, introduction to 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; random variables and random sequences; expectation, special distributions, random processes, discrete and continuous Markov processes, birth and death processes, and waiting line theory.

7400 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 number generation, design and analysis of simulation experiments, and variance reduction techniques.

7402 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 technologies and tools for integrating databases; design issues and methodology for developing and implementing distributed information systems; 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 tools 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 Hydrology Engineering (3) Prereq.: IE 4362 or equivalent or consent of instructor. Evaluation and control of industrial environments; noise and vibration, industrial illumination, radiation, temperature, air quality and contamination; design of ventilation systems. Prerequisites: human factors and systems engineering.

7464 Work Physiology (3) Prereq.: IE 4461 or equivalent. Study of human physiological processes and related occupational health hazards, with an emphasis on the cardiovascular system (pulmonary, muscular) to work applicable to task design and evaluation, employee selection and placement, and work design. Prerequisites: human factors and systems engineering.

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. Prerequisites: human factors and systems engineering.

7466 Human Interaction with Computers (3) Prereq.: IE 4461 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 3582 and 4461, or equivalent. Topics in cognitive ergonomics and work environments: information processing, visual and auditory displays, and aspects of the work environment such as noise, socio-technical systems, and the role of rehabilitation. Application of cognitive ergonomics to problems including construction, healthcare, and the service sector.

7470 Artificial Intelligence Manufacturing Systems (3) Prereq.: IE 3520, 4461, or equivalent. Application of advanced artificial intelligence tools and techniques to computer integrated manufacturing systems including maintenance, product design, process planning, simulation, production scheduling, and control, robotics, and intelligent warehousing systems.

7480 Automation and Computer-Aided Manufacturing (3) Prereq.: IE 4461 or equivalent. Automated flow-line production, numerical control, industrial robots, computer-aided manufacturing, process monitoring and control, group technology, flexible manufacturing systems, and material requirement planning.
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 1100. This course examines the expanding role of information technology in organizations. Using 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.

3111 Honors Introduction to Management Information Systems (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 (Prereq.: MATH 1453 or equivalent. An honors course, ISDS 2000, 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 distribution, binomial; sampling distributions; inferential statistics including estimation, one- and two-sample hypothesis tests for means, and chi-square tests for proportions.

2001 Statistical Methods and Models (Prereq.: ISDS 2000 or equivalent. Continuation of ISDS 2000. An honors course, ISDS 2010, 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, goodness of fit; management such as utilities; management by objectives; functions, decision analysis, math programming, waiting line models and simulation.

3100 Honors Introduction to Business Statistics (Same as ISDS 2000, with special honors emphasis for qualified students. Credit will not be given for this course and ISDS 2000.

3101 Honors: Statistical Methods and Models (Same as ISDS 2001, with special honors emphasis for qualified students. Credit will not be given for this course and ISDS 2001.

3100 Statistical Methods and Models III (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; key sampling; linear regression; simple correlation; analysis of variance; non-parametric tests.

3700 Independent Reading and Research in Information Systems Design (Prereq.: ISDS 5100, with consent of instructor. May be taken for a max. of 6 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.

7710 Production Planning and Control (Prereq.: IE 4420 or 4520 or equivalent. Deterministic and probabilistic inventory models, static and dynamic models for production planning; multi-stage, multi-echelon production systems; scheduling and sequencing; line balancing and work force scheduling.

7720 Supply Chain Systems (Prereq.: IE 4320 or 4520 or equivalent. Prerequisites of components and principles of production systems; industrial process mapping, workflow analysis; resource utilization; process and work force orientation; simulation; logistics information and error propagation; reduction of work-in-process, work flow, and inventory for determining the statistical models; process and operational variability reduction; role of buffers and process stability.

7760 Sequencing and Scheduling (Prereq.: IE 4320 or 4520 or equivalent. Measures of scheduling;deterministic models for single and parallel machines, job shops, flow shops, and open shops; computational complexity and industrial applications.

Prerequisites: Information Systems 4111; ISDS 3111; ISDS 3112; ISDS 3113, with special honors emphasis for qualified students. Credit will not be given for both this course and ISDS 3111. Principles in modeling, analysis, design, and operations; mass production, cellular manufacturing, and layout, routing and loading strategy; material handling and storage/ retrieval systems.

8000 Internship Research (1-12 per sem.) SY *U* grading. 8900 Pre-dissertation Research (1-9) May be repeated for credit.

9000 Dissertation Research (1-12 per sem.) SY *U* grading.

 practic e includes use of a particular software system.

3115 Introduction to Operations Management (3) Prereq.: ISDS 2001 or equivalent. Credit will not be given for both this course and ISDS 3117. Principles and methodologies concerning production and service planning and service organizations; production and service systems design; process and capacity design; total quality management; inventory management; and materials management.

3117 HONORS: Introduction to Operations Management (Same as ISDS 3115, with special honors emphasis for qualified students. Credit will not be given for this course and ISDS 3117.

3200 Advanced Business Programming (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 (Prereq.: proficiency in basic statistical methods and MATH 1552; consent of instructor. Techniques of data collection and statistical inference; theoretical foundations for estimating and testing hypotheses about means, proportions, and variances.

4010 Basic Forecasting Models (Prereq.: ISDS 3000 or equivalent. Single-equation multiple regression and time series modeling with emphasis on economic forecasting; using time series data in regression models; time series modeling, including classical decomposition and exponential smoothing; use of computer programs for regression and time series modeling and forecasting.

4020 Sample Survey Methods (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.

4200 Applied Nonparametric Statistics (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 (Prereq.: ISDS 3000 or equivalent. Assessment of subjective probability distributions; Bayesian estimation and inference; application of Bayesian techniques to business problems.

4700 Operations Research for Managerial Decision (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.

4720 Foundations of Management Accounting (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.

4801 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; 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; knowledge-based systems; database management; strategy and strategy; integration of DSS and ES.

4111 Enterprise Systems (Prereq.: ISDS 3100. Overview of key concepts such as functional, technical, and implementation perspective; emphasis on the process-centered organization and how it integrates procedures and functional business; hands-on computer-based exercises involving a hypothetical global company.

4112 Data Warehouses (Prereq.: ISDS 3100. Data Warehouses for business; topics include: top-down design,
knowledge management, technological intrapreneurship.

7510 Database Management (3) Prereq.: BADM 7050. Analysis and design of data systems based on the relational database model; data modeling using entity-relationship (ER) diagramming; logical and physical database design; database hardware/software issues and considerations; data and database administration; emerging database technologies and advanced database applications.

7511 Information Management (3) Prereq.: ISDS 7510 or equivalent. Decision support systems, online analytical processing, multidimensional data modeling, web-based data mining, data marts, data mining, knowledge management, Internet business intelligence.

7520 Network Information Systems (3) Prereq.: BADM 7050. Network operating systems; network management and LAN/WAN technology; network security.

7522 Internet Systems Development (3) Prereq.: ISDS 7520. In-depth look at Internet applications architecture, server-side programming, web-data 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 7510. Both courses may be taken concurrently. Analysis and design of information systems from a management perspective; software development methodology; top-down versus bottom-up 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 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; creating a marketplace; disintermediation; reintermediation; and virtual organization.

7542 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, intranet 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 related technology, the methodology to be used to implement these systems in organizations, and the implications of their deployment in organizations.

7551 Information System Change (3) Prereq.: ISDS 7530. 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 System (1.5) Prereq.: ISDS 7530 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 polices; IT and national culture; ethical considerations in multinational enterprises; IT diffusion in developed versus developing countries; IT and national development; global electronic commerce; global telecommunications; and competitive advantage through global IT management.

7900 Contemporary Issues in Statistics and Management Science (3) Prereq.: 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. Philosophical foundations of science and their implications for contemporary management science.

7920 Contemporary Issues in Management Information Systems (3) Prereq.: advanced PhD standing or consent of instructor. Major contemporary issues in management information systems.

7950 Research 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. Comprehensive research and critical evaluative work in areas of special interest.

7990 Project (3-6) Prereq.: permission of instructor. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Comprehensive research and critical evaluative work in areas of special interest.

8090 Paper in MIS (1-12 per sem.) S 7'57 hrs. grading.

8900 Pre-dissertation Research (1-9) May be repeated for credit.

9000 Dissertation Research (1-12 per sem.) S 7'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 Interior Design Foundation (3) V Prereq.: controlled admission to program in interior design at first year enrollment level. Directs the student in the design process.

1700 Interior Design Technical Drawing (3) F,S,Su F,S,Su Prereq.: controlled admission to program in interior design at first year enrollment level. Directs the student in the design process.

1710 Interior Design I (4) F Prereq.: admission to professional program in interior design at first year enrollment level. Directs the student in the design process.

1722 Interior Design Awareness I (3) V Prereq.: controlled admission to program in interior design at first year enrollment level. Directs the student in the design process.

2750 Interior Design Studio I (4) F Prereq.: admission to professional program in interior design at first year enrollment level. Directs the student in the design process.

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.: controlled admission to program in interior design at first year enrollment level. Directs the student in the design process.

2785 Computer Visualization (3) F Prereq.: admission to program in interior design at first year enrollment level. Directs the student in the design process.

2874 History of Interior Design and Decoration I (3) F Prereq.: admission to program in interior design at first year enrollment level. Directs the student in the design process.

2875 History of Interior Design and Decoration II (3) S Prereq.: admission to program in interior design at first year enrollment level. Directs the student in the design process.

2876 History of Interior Design and Decoration III (3) S Prereq.: admission to program in interior design at first year enrollment level. Directs the student in the design process.

3751 Interior Component Design (3) F S Prereq.: ID 2750 or equivalent. 4 hrs. studio. Directs the student in the design process.

3752 Interior Design Studio III (4) F Prereq.: ID 2750 and ID 3751. Directs the student in the design process.

3753 Interior Design Studio IV (3) S Prereq.: ID 3752 or equivalent. 4 hrs. studio. Directs the student in the design process.

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.

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

INTERNATIONAL STUDIES • INTL

General education courses are marked with stars (★).

★ 2000 Contemporary Global Issues (3) Survey of current world issues from an interdisciplinary perspective.

★ 2001 Gateway to Contemporary Global Issues (3) ANTH 1003 or 2051, GEOG 1001 or 1003, HIST 1007, POLI 2057. Required for all international studies majors.


★ 2003 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.

★ 2004 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.

★ 2092 Fundamentalism and Religious Nationalism (3) See REL 2092.

★ 2999 Undergraduate Internship in International Studies (3) F,Su,V 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 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
4041 Translation (3) Prereq.: ITAL 3060 or equivalent. Study of translation methodology between Italian and English; emphasis on the communicative, morphological, and syntactical contexts of the two languages.

4051 Dante (3) Dante, with emphasis on the Inferno. 4052 The Renaissance (3) Literary works of the Italian Renaissance; writings of Petrarch, Boccaccio, Lorenzo de' Medici, Poliziano, Sanzio, and Ariosto.

4053 Modern Italian Literature (3) Prereq.: ITAL 3060. Study of modern Italian writers and literary criticism of the 19th and 20th centuries. 4100 Special Topics in Italian Studies (3) Prereq.: ITAL 3060. Advanced, 3000-level Italian course or equivalent. Selected works of modern Italian writers and literary criticism of the 19th and 20th centuries. May be taken for a max. of 6 hrs. 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 the instructor required. Readings in Italian literature directed by a faculty member.

7971, 7972 Seminar (3,3) Old Italian language and pre-Renaissance literature; Italian literature of the 18th and 19th centuries.

JAPANESE • JAP
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) Prereq.: JAPN 1001 or equivalent. Study of Japanese pronunciation, grammar, vocabulary, and expressions. May be taken for a max. of 3 sem. hrs. credit. May be taken for credit with permission of the instructor. 1002 Preparatory Japanese (5) Prereq.: JAPN 1001 or equivalent. Study of Japanese pronunciation, grammar, vocabulary, and expressions. May be taken for a max. of 3 sem. hrs. credit. May be taken for credit with permission of the instructor. 1003 Intermediate Japanese (3) Prereq.: JAPN 1002. Introduction to Japanese culture and civilization. May be taken for a max. of 3 sem. hrs. credit. May be taken for credit with permission of the instructor. 1004 Advanced Japanese (3) Prereq.: JAPN 1003. Study of more advanced aspects of Japanese language and culture. May be taken for a max. of 3 sem. hrs. credit. May be taken for credit with permission of the instructor.

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 Rhythms
1129 Badminton
1130 Bowling
1132 Ballroom Dance
1133 Children's Rhythms For elementary grades, physical education, or special education majors.
1134 International Kicks
1135 Golf for Business and Life
1136 Swimming
1146 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 1256 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 Applied Physical Education For students who cannot participate in vigorous physical exercise due to physical disability or other handicapping condition.

1224 to 1225 Intermediate Courses (1 sem. hr. each) Pass/fail grading.
1224 Tennis
1226 Swimming
1244 Aerobic Dance
1246 Weightlifting
1251 Racquetball
1252 Tai Chi II
1254 Martial Arts
1256 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) F.S. 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.
1411 Tennis (1) F.S. 3 hrs. lab. For kinesiology majors or minors.
1412 Badminton (1) 3 hrs. lab. For kinesiology minors or majors.
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.
1460 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) Macro and microscopic study of the human body.
2501 History and Philosophy of Kinesiology (3) Development in kinesiology and health from ancient times to the present.
2502 Practicum in Sports Studies (3) Prereq.: for students majoring in kinesiology. 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
2504 Principles of Conditioning (3) 2 hrs. lecture; 2 hrs. lab. Methods of training and conditioning: physical fitness activities and current trends; participation in a fitness training lab including fitness assessments and training methods for individuals; planning physical fitness programs for community and commercial organizations, education institutions, and social agencies.

2505 Foundations of Physical Education (3) Prereq.: BOL 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, spine, neck, and head; including emergency care procedures and signs/symptoms/treatment of various injuries/conditions.

2506 Orthopedic Injury Evaluation Techniques II (3) KIN 2025, 2209; KIN 2503; 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 level physical education major or consent of instructor. 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.

2509 Medical Terminology for Kinesiology (3) Majors only or permission of instructor. An in-depth introduction to medical terminology, with a focus on body systems, medical specialties, and medical communication.

2510 Athletic Training and Leisure Administration (3) Introduction to the academic and professional field of sport administration.

2511 Introduction to Coaching (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 use 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 Individual and Team Sports (1-3) 1-3 hrs. lab. May be taken for credit when sports indicated. 1 hr. 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, spine, neck, and head; including emergency care procedures and signs/symptoms/treatment of various injuries/conditions.

2525 Applied Anatomy and Physiology I (3) Prereq.: KIN 2500 or equivalent. Laboratory sessions examining the physiological effect of human anatomical structures using cadaveric tissues. Kinesiology majors or consent of instructor.

2525, 2534. 2 hrs. lecture; 2 hrs. lab. Uses of exercise prescription.

2534 Scientific Basis for Exercise (3) Prereq.: KIN 3515. Two hrs. lecture; 2 hrs. lab. Historical development of chronic disease risk factors; confirmations and valid uses of exercise prescription.

2535 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.

2540 Mild/Moderate Impairments 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 physical, emotional, and behavioral disabilities; learning disabilities; behavioral disorders; and mild/moderate physical, sensory, and health disabilities.

2541 Severe Disabilities and Physical Activity (3) Prereq.: EDCI 2700 and KIN 2700. Substantial observations in schools required. Focus on individuals with severe intellectual, behavioral, physical, and sensory disabilities.

2545 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; interaction of sport and recreation; curriculum implementation specified in federal and state legislation.

2900 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. Specialized course in the initial on-field and clinical evaluation of orthopedic injuries and conditions of the lower extremities, spine, neck, and head; including emergency care procedures and signs/symptoms/treatment of various injuries/conditions.

2900 Independent Study (1-3) 1-3 hrs. lecture. May be taken for credit when the subject matter is not included in the regular curriculum. Specialized course in the initial on-field and clinical evaluation of orthopedic injuries and conditions of the lower extremities, spine, neck, and head; including emergency care procedures and signs/symptoms/treatment of various injuries/conditions.

2950 Human Anatomy Laboratory (4) Prereq.: KIN 2500 or equivalent. Laboratory sessions examining the physiological effect of human anatomical structures using cadaveric tissues. Kinesiology majors or consent of instructor. Laboratory sessions examining the physiological effect of neural pathways; subcortical reflexes; supraspinal reflexes; and signs/symptoms/treatment of various injuries/conditions.

2950 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.

3002 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. Kinesiology majors or consent of instructor.

3050 Athletic Training (1) Prereq.: KIN 2503. 2 hrs. clinical/practicum. May be taken for a max. of 6 hrs. credit.

3070 The Olympic Games: Ancient and Modern (3) Prereq.: KIN 2500. 2 hrs. lecture; 2 hrs. lab. Origins, growth, politicalization, and governance of the games.

3090 Organization and Administration in Athletic Training (3) Limited to students in the athletic training certification program. Organization and administration of athletic training and facilities; equipment, insurance, legal aspects, records, employment, personnel, and structure of the National Athletic Trainer’s Association.

3099 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 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, spine, neck, and head; including emergency care procedures and signs/symptoms/treatment of various injuries/conditions.

3501 Advanced Athletic Training (3) Prereq.: KIN 2503, 2505; or permission of instructor. 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.

3506 Organization and Administration of Practice and Various Levels of Competition. Specialized course in the initial on-field and clinical evaluation of orthopedic injuries and conditions of the lower extremities, spine, neck, and head; including emergency care procedures and signs/symptoms/treatment of various injuries/conditions.

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 enrolled in the College of Education. Practically graded programs of activities.

3512 Therapeutic Specialties (3) Limited to students enrolled in the athletic training area of concentration or by permission of instructor. Cognitive, psychomotor, and affective skills practiced 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 movements and motion. Humans are composed of many systems; behavior of each system in new and changing environments. Concepts of anatomy with applications to sports science.

3515 The Physiological Basis of Activity (3) Prereq.: KIN 2500, 2504; BOL 2160. Basic physiological concepts of the musculoskeletal, metabolic, cardiovascular, and circulatory systems; biological concepts and theories involved with exercise: determination of normal and abnormal physical responses to exercise; development of a philosophy of scientific inquiry. Kinesiology majors or minors. Must be enrolled in the College of Education. Practically graded programs of activities.

3517 Neuromotor Control of Human Movement (3) Prereq.: KIN 2500. Muscle dynamics; sensory and motor neural pathways and functions; supraspinal mechanisms; behavioral issues.
Psychological and behavioral perspectives of health promotion; theories and research related to health behavior change; interventions and programs designed to promote health behavior change.

4800 African Americans in Sport (3) African American involvement in contemporary sport and the impacts of sport and physical activity on the history of African Americans in sport and its larger effect on African American culture in general; introduction to the historical, sociological, economic, political, and psychological aspects of sport unique to African Americans.

4835 Practicum in Sport and Leisure Administration (6) Prereq.: KIN 7520. Observation and practice should be within two semesters of completing degree requirements or obtain permission of the department. Pass-fail grading. Practicum in 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 an experienced supervisor. 7501 Advanced Research Methods (3) Analysis of multivariate research methods and statistical analysis used in kinesiology, exercise science, and sport administration. 7502 Curriculum Construction in Physical Education (3) Contemporary educational trends in curriculum theory, issues in curriculum development, and models derived from research and experience. 7503 Dimensions of Aging (3) Focus on physical, cognitive, and social aspects of aging and the 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. Neuromuscular control of human movement; emphasis on contrast between ecological and constructionist approaches. 7513 Seminar: Preparation for 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 standardized 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 7523 or permission of instructor. May be repeated for a total 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 and recreation issues.

7520 Motor Development (3) 2 hrs. lecture; 2 hrs. lab. Psychomotor development of children; implications for skill instruction, learning and development research; motor development in special children; research on youth sports; evaluation and assessment; and motor development in adulthood. 7521 Laboratory Techniques in Motor Behavior (3) Prereq.: KIN 7508 or equivalent and consent of instructor. 2 hrs. lecture; 2 hrs. lab. Emphasis on 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 analysis; force measurement; motion analysis equipment; electromyography.

7522 Physical Education for Preschool and Elementary School Children (3) Prereq.: KIN 7510, 7512; For PPD majors only. Prepracticum program for children at the preschool and elementary school level; philosophy, objectives, trends, teaching methods, materials necessary for program development.

7523 Theories of Motor Skill Acquisition (3) Prereq.: KIN 7520. Motor Control, Motor skill acquisition, and motor development. Issues in motor control and learning, i.e., central and peripheral mechanisms, theories of motor skill acquisition, 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 sport psychology related to sport and exercise psychology and theories.

7530 Exercise Physiology (3) 2 hrs. lecture; 2 hrs. lab. Exercise physiology, chemical, and environmental factors affecting physical performance; bioenergetics, cardiovascular and respiratory adjustments to exercise; research relevant to cardiovascular and physiological responses associated with exercise.

7531 Structural and Functional Characteristics of the Developing Child (3) 2 hrs. lecture; 2 hrs. lab. Structural changes in 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 practice 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, 7531, 7534. Prereq. on-site requirement is 20 hours per week. Important for exercise specialist, exercise leader, or graded exercise technician certification. Involved in planning and 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 KIN 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 7540. Survey of approaches and strategies for promoting physical activity and healthy lifestyles for individuals with disabilities and limitations.

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 Electrodicrography: Principles and Practice (3) Prereq.: KIN 7540. 2 hrs. lecture; 2 hrs. lab. Cardiovascular and neurological functions and responses to exercise; functional and structural components of the exercise response; scientific applications to exercise physiology; methods of analysis and interpretation; technical and practical aspects of the equipment.
2201 Landscape History I (3) Development of earliest landscape traditions; relationship of humans to landscape in major cultures and natural landscapes; development of landscaped environments in Western Europe and America from the 15th to 19th centuries.

2302 Land and Landscape Technology I: Landscape 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 two-dimensional design; spatial sequence, meaning, and design change; application to a simple design.

2401 Landscape Planning and Development V (6) Prereq.: LA 1102 and 2001, or LA 2002 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.

2501 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 drainage and best management practices and sustainability, landscape architectural systems and infrastructures including advanced roadway design and alignment.

3001 Landscape Design III: Site Planning and Design (6) Prereq.: LA 2002 and 2101 or 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 Planning and Development (6) Prereq.: LA 2002, or consent of instructor. 12 hrs. studio. Landscape planning and design at the community and neighborhood scale; emphasis on relationships of uses, transportation infrastructure, public services, and a mix of housing and commercial types.

3201 Landscape History II (3) Prereq.: LA 2201. Major landscapes of the 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 drainage and best management practices and sustainability, landscape architectural systems and infrastructures including advanced roadway design and alignment.

4001 Landscape Design: Landscape Planning and Development V (6) Prereq.: LA 3001 and 3202. 12 hrs. studio. Students are responsible for paying travel expenses associated with the course. Field projects must be pre-approved by the supervising faculty.

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 planning and design strategies and their 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.

4301 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.

4302 Plant Materials II (3) Prereq.: LA 3401. 1 hr. lecture; 4 hrs. lab. Continuation of LA 3401 with the inclusion of basic principles of landscaping small areas with perennials and shrubs, basic principles of landscaping small areas with perennials and shrubs.

4401 Landscape Design: Landscape Planning and Development V (6) Prereq.: LA 3001 and 3002. 12 hrs. studio. Field projects must be pre-approved by the supervising faculty.

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 United States.

4502 Independent Study in Landscape Architecture (3) Prereq.: consent of School director. Independent study projects for advanced students. Monitored by supervising faculty member. Program of individual study under faculty guidance, including auditing lectures, reading, and exercises as needed to develop student's skills in methods of inquiry related to the area of specialty.

4503 Advanced Projects in Landscape Architecture (3) Prereq.: consent of School director. Independent study 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 projects must be pre-approved by supervising faculty member and the School director.

4506 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 this course. Field projects must be pre-approved by the supervising faculty.

5001 Graduate Landscape Design I: Basic Design (6) Prereq.: consent of the School. 12 hrs. studio. Introduction to two- and three-dimensional design; spatial visualization, meaning and dynamic change; application to simple landscape designs.

5002 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.

5003 Graduate Landscape Design III: Community Planning and Development (6) Prereq.: LA 7002 and 7101 or consent of the School. 12 hrs. studio. Principles of landscape planning and design at the community and neighborhood scale; emphasis on relationships of uses, transportation infrastructure, green space, and aspects of contemporary practice of landscape architecture.

5004 Graduate Landscape Design IV: Landscape Design (6) Prereq.: LA 7001, 12 hrs. studio. Field projects must be pre-approved by the supervising faculty. Students are responsible for paying travel expenses associated with this course. Field projects must be pre-approved by the supervising faculty.

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 3002, or consent of instructor. Professional practice for landscape architects including issues associated with licensure, practice types, professional services, business development, 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 visualization, 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 Planning and Development (6) Prereq.: LA 7002 and 7101 or consent of the School. 12 hrs. studio. Principles of landscape planning and design at the community and neighborhood scale; emphasis on relationships of uses, transportation infrastructure, green space, and aspects of contemporary practice of landscape architecture.

7004 Graduate Landscape Design IV: Landscape Design (6) Prereq.: LA 7001, 12 hrs. studio. Field projects must be pre-approved by the supervising faculty. Students are responsible for paying travel expenses associated with this course. Field projects must be pre-approved by the supervising faculty.
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.
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, comprehensive view of the humanities, and means of integrating these into the whole.
7002 Liberal Arts: Themes and Commonalities (3) Major ideas in the liberal arts in study of major periods, movements, themes, or problems in Western culture.
7900 Independent Study (1-3) May be taken for a max. of 6 sem. hrs. of credit. Directed individual readings by the graduate faculty.

8000 Thesis Research (1-12 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; research projects involving 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 IDS 1100. Introduction to hardware, software, and the Internet with emphasis on basic computer skills; 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 MLS 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. Networking, telecommunications issues related to telecommunications 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; bibliographic 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 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 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 regard to use 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.
7206 Social Media Centers (3) Philosophy and objectives of library media centers and information services in schools; emphasis on the roles and responsibilities of the media specialist.

7301 Academic Libraries (3) Study of libraries in higher education; their development, organization, financing, and administration; human resources, collections, services, and futures.
7402 Cooperative Consortia, and Networks (3) Major types of local, state, regional, and supralocal cooperative efforts and the role of the academic library among all types of libraries, including organization, governance, services, and uses of technology.
7403 Administration of Library 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 uses 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.
7407 Principles of Archives Management (3) Identification, collection, arrangement, description, preservation, and use of the full range of historical documents; current and traditional issues.
7408 Information Technology and Information Policy (3) Study of interactions between humans and information systems, learning, and information behavior; human cognition, user modeling, system design approaches, evaluation methods.
7409 Library Information Systems (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 services 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 policies relevant to the future of information technologies within the United States and selected countries.
7504 Preservation Management of Physical Records (3) Study of preservation 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 techniques; administration of oral history projects; conducting interviews; preservation of interviews in archives and libraries.

7510 Design and Management (3) Design, produce, and manage effective web sites; understanding of the World Wide Web environment and related technologies.

7603 Cataloging of Archival Materials (3) Prereq.: LIS 7407 or permission of instructor. Application of principles of MARC and related tools, including current practices for managing electronic resources.

7604 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 automated indexing and indexing techniques; effectiveness of abstracting and indexing methods.

7607 Instructional Information Design (3) Prereq.: LIS 7002 or permission of instructor. Use of electronic information resources and systems; analysis and comparison of various systems, teaching approaches, and remediation techniques.

7608 Cataloging and Classification (3) Principles underlying description, subject analysis, classification of library collections, and control; current national and international standards for bibliographic description and subject indexing.

7610 Information Architecture (3) See CSC 7481.

7611 Management of Electronic Records (3) Prereq.: LIS 7407 or permission of instructor. Study and evaluation of the management of electronic records in various organizations.

7700 History of Books and Libraries (3) History and philosophy of information science and information retrieval; survey of current research.

7770 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.

7780 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 present century.

7790 Seminar in Advanced Archival Appraisal (3) Appraisal and selection of archival materials from both a theoretical and practical perspective. Extensive reading in the archival literature to familiarize the student with the appraisal theory and current practices in the field.

7793 Seminar in Archival Administration (3) History of archival arrangement and description, in depth investigation of the issues arising around access to archival materials in the digital age.

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 the effectiveness of illustrators in telling stories from children's literature; evaluation of artistic media in new 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 science, 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 Science (3) Prereq.: completion of 12 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 administration and management of academic libraries.

7901 Issues in Library and Information Science (1) Prereq.: consent of instructor; 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 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 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 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.

7907 MLIS Directed Independent Study (1-3) May be taken for a max. of 6 sem. hrs. credit.

7910 Seminar (3) Prereq.: consent of instructor. May be taken for a max. of 18 sem. hrs. of credit when taken in conjunction with 3000 Petroleum Land Management Practice (1) V

7911 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 taken in conjunction with 3000 Petroleum Land Management Practice (1) V

7912 Special Topics in Library Science (1-3) Prereq.: major or permission of instructor. May be taken for a max. of 18 sem. hrs. of credit when taken in conjunction with 3000 Petroleum Land Management Practice (1) V

7914 CLIS Directed Independent Study (1-3) Prereq.: LIS 7670 or permission of instructor. May be taken for a max. of 12 sem. hrs. credit.

8000 Thesis Research (1-9 per semester) S/U grading.

8400 Group Research (1-9 per semester) S/U grading.

8500 Independent Research in Speech Science or Linguistics (1-3) See COMD 4750.

8914 Philosophy of Language (3) See PHIL 4914.

7606 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.

7751 Topics in Language Acquisition (3) See ENGL 7751.

7750 Special Topics in Linguistics (3) See COMD 7750.

7753 Special Topics in Linguistics (3) See ENGL 7753.

7754 Psycholinguistics: Linguistic Perspectives (3) See COMD 7754 and PSYC 7754.

7799 English for Speakers of Other Languages: Methods and Materials (3) See COMD 7755.

7800 Independent Research: Phonetics and Linguistics (3) Topics at the discretion of the instructor.

7809 Selected Topics in Anthropology (3) See ANTH 7809.

7916 Seminar (3) See PHIL 7916.

7992 Field Methods in Linguistics (3) See ANTH 7992.

7999 Research in Anthropology (1-6) See ANTH 7999.

8000 Thesis Research (1-12 per sem.) S/U "grading.

8000 Dissertation Research (1-12 per sem.) S/U "grading.

LOUISIANA STATE UNIVERSITY • LSU

1001 Freshman Seminar (1) Open to freshmen only. Introduces students to the academic world. Includes orientation to the University's policies and resources, its history, and traditions; development of essential academic skills, personal growth, and awareness, and career exploration; instills a sense of community on campus and beyond.

MANAGEMENT • MGT

2000 Innovation and Creativity (3) Prereq.: admitted to the College of Business 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 as a real association, and environmental impacts of drilling activity; use of topographical and historic maps, map compilations, historical cartography, aerial photographs, and field techniques; some focus on coastal Louisiana and the Gulf South.

6000 Family Business Management (3) Prereq.: ACCT 2001 and 2101 or 3001; ECON 2000, 2010; IDS 1100 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) Prereq.: IDS 2000, FIN 3715 or 3716, MKT 3401 (credit or concurrent enrollment) or permission of instructor. Principles of entrepreneurship; small business 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 theories, including planning, organizing, staffing, and controlling. Review of human resource management, leading/interpersonal influence, and decision making 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. Focus on the role of business and its 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. A minimum of 6 hr. of credit. Students supervised by a management faculty member and an approved business executive will follow a predetermined schedule of work as a business intern. 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 3520. Human resource management includes recruitment, selection, development, maintenance, and reward of employees; relationships with environment and employees; and human resource legislation, including international agreements, franchisee start-ups, franchiser agreements, franchisee-business relationships, anti-trust laws, and international franchising.

4320 Multinational Management (3) Prereq.: MGT 3260 or equivalent. 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 employee protection.

4600 Crisis Management (3) See DSM 4600.

4701 International Human Resource Management (3) Prereq.: International Business 3280. Theories of international management and employee behavior; environmental factors in organizational settings.

4901 Research Methods in Management (3) Prereq.: MGT 3830 or equivalent. Credit will not be given for both this course and MGT 3831.

4902 Thesis (1-12 per sem.) Prereq.: 9800 Seminar in Advanced Business Problems (1). Directed work in advanced topics.

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 equivalent (2001 and 2002), and either ECON 2030 or ECON 2000 (2001 and 2010). 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, functional and organizational structure at a macro level; marketing strategy and policies at a macro level; problems of cost and productivity; view points of society, consumer, successful marketers; role of the law.

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. Analysis to predict changes in consumer behavior for successful sales careers; buyer behavior and sales tactics; sales strategies; communication in buyer-seller relationships.

3412 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; strategies designed to encourage channels of distribution and the problems of demand stimulation; concepts related to integration and organization of promotional effort to facilitate communication programs for manufacturers and/or services.

3477 Buyer-Seller Communication: Promotion (3) Prereq.: MKT 3401. Communication theory and sales principles needed for successful sales careers; buyer behavior and sales tactics; sales strategies; communication in buyer-seller relationships.

4311 Retailing Management (3) Prereq.: MKT 3411. Store organization, operation, and management; retail method of inventory; problems connected with retail buying and selling.

4341 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; strategies designed to encourage channels of distribution and the problems of demand stimulation; concepts related to integration and organization of promotional effort to facilitate communication programs for manufacturers and/or services.

4377 Buyer-Seller Communication: Promotion (3) Prereq.: MKT 3401. Communication theory and sales principles needed for successful sales careers; buyer behavior and sales tactics; sales strategies; communication in buyer-seller relationships.

4414 Marketing Research Field Project (3) Prereq.: MKT 3401 and permission of the department. Directed work in advanced topics.

4441 Marketing Research Field Project (3) Prereq.: MKT 3401 and permission of the department. Directed work in advanced topics.

4444 Marketing on the Internet (3) Prereq.: MKT 3401 and permission of department. Application of marketing principles and practices pertaining to the use of the Internet by organizations.

4444 Strategic Marketing (3) Prereq.: MKT 4440 or consent of instructor. Study of the concepts, principles, and practices concerning the development and implementation of strategic marketing plans; use of the Internet with emphasis on the Internet as an alternative marketing delivery system.

4445 International Marketing (3) Prereq.: MKT 3401. Global marketing environment and analytical processes; global marketing as all-encompassing (import-export, joint ventures, foreign subsidiary, foreign individual projects, foreign 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, or by consent of department for a max. of 6 hrs. credit. Pass/fail grading. On-the-job experience in approved marketing positions.
4451 Marketing Management (3) Prereq.: MKT 4431 and senior standing. Open only to College of Business students; open to others with permission of department. Analytical principles and methods of strategies for facing problems in all areas of marketing; policy areas of product, price, channels, and promotion integrated in development of the firm's total marketing strategies.
4477 Independent Study: Advanced Marketing Problems (1-6) For undergraduate students in the E. J. Ourso College of Business at LA Tech 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 Marketing Research in Retailing Management (3) Prereq.: MKT 4431. Application of retailing theory and management techniques in areas of strategic planning and its interfaces with retailing operations; market area analysis, location strategies and site selection; merchandising policies and 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 selection and training of personnel, and coordination of all resources for marketing of service; marketing organization, structure, and administration.
4499 Concept and Practice of Services Marketing (3) Prereq.: MKT 3401 and 7130. Marketing theory, formulation, and implementation.
4500 Marketing Research and Sales (3) Prereq.: MGT 3111 and MKT 4431 or Entrepreneurship Minor, or Entrepreneurship Concentration, or permission of instructor. This course is the basic role of marketing and the global environment; the role of entrepreneurship in marketing efforts of all firms. Attention will be devoted to understanding the impact of the global marketplace on marketing strategies, and methodological issues for selected topics in this area.
7220 Seminar in Marketing Theory and Experimental Methodology (3) Prereq.: MKT 4451 or BADM 7100. Open only to doctoral students. Topics in the theory, conceptualization, and measurement of constructs used in marketing research with emphasis on the development and refinement of marketing construct measures.
7716 Advanced Research Marketing Techniques (3) Prereq.: BADM 7100. Advanced design and techniques of research; theory and assumptions of analytical methods; marketing applications, use of computer programs; marketing strategy, interpretations of empirical results. May be taken for 4 hrs. of credit. May be taken for 3 hrs. with consent of instructor. Same as BADM 7716.
7717 Advanced Seminar in Consumer Behavior (3) Prereq.: BADM 7100 or equivalent. Same as BADM 7717. Synthesis of theory, interplay of theory and research methods; validity and implications in marketing and consumer behavior research. Synthesis of the theories, empirical evidence, and conceptual design; pluralism in marketing and consumer research.
8000 Thesis Research (1-12 per sem.) ’S”/U” grading. May be repeated for credit. 6 hrs. credit.
9000 Dissertation Research (1-12 per sem.) ’S”/U” grading.

MASS COMMUNICATION • MC


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 the mass media communicate (advertising and public relations) affect political and economic democracy.

★ 2001 HONORS: Introduction to Mass Communication (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 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. May be repeated for credit.

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 services. Review of alternative strategic tools to become critical consumers of these media.

★ 2030 Civic Engagement, Youth, and Media (3) Also offered as MC 4112, with special honors emphasis for qualified students. Civic engagement and social justice through studies and skills for citizenship, with emphasis on media and political influences on how young Americans engage with civic life. May be repeated for credit.

Foundation of Media Persecution (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 film in video and audio programming of electronic media.

3018 Foundations of Media Research (3) Prereq.: majors only or permission of department. Introduction to research design and analysis methods. May not be counted for undergraduate or graduate degree credit by Mass Communication majors. An honors course, MC 4115, is also available. An intensive course in laboratory practice in the professional skills required of all media practitioners.

3560 Electronic Media and Society (3) Organizational and economic foundations of electronic media; history, regulation, social significance, and responsibility. May be taken for credit by 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 of the Federal Communications Commission and other regulatory bodies; emphasis on current legal issues affecting the telecommunications and electronic media industries. Open to doctoral students. Open only to doctoral students.

3998 Internship (3) Prereq.: 3.0 gpa in 12 more hrs. of mass communication and consent of internship faculty. Prereq.: BADM 7100 or equivalent. 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 military and the media.

4015 Advanced Visual Communication & Multimedia Web Design (3) Prereq.: MC 2010 and MC 2015. 2 hr. lecture; 2 hr. lab. Developing multimedia content for the Web; includes photo, audio, and video editing.

4042 Mass Media, Sports, and Society (3) Prereq.: Majors only. Same as MC 4090, with special honors emphasis for qualified students.

4050 Media Management (3) Prereq.: Majors only. Concepts and principles of management, entrepreneurial leadership, organizational behavior, and strategic planning applicable to media organizations; topics include legal, ethical, technological, and legal issues confronting media companies.

4060 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, practices, critical thinking, 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 cultural and political systems, economic, political, cultural, and geographical influences.

4104 HONORS: Comparative Media Systems (3) Prereq.: majors only. Same as MC 4103, with special honors emphasis for qualified students.

4105 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 Access to the Program. Required of all students who enter the mass communication graduate program without a degree or undergraduate experience in mass communication. May not be repeated 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.
1554 Calculus II for Life Sciences (4) F,S Prereq.: MATH 1550. Credit will not be given for this course and either MATH 1550 or 1552 or 2057 or 2058. Students are encouraged to enroll in MATH 2057 and 2060 concurrently. Students may also be encouraged to enroll in MATH 2057. With special honors emphasis for qualified students. Credit will not be given for both this course and MATH 2058 or 2063. Three-dimensional analytic geometry, partial derivatives, multiple integrals.

2057 Multidimensional Calculus (3) F,S Prereq.: MATH 1552 or 2058. Credit will not be given for both this course and MATH 2058 and 2063. 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 ENGR 1002. 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 2070, 2085, 2090, or 2095. Ordinary differential equations, Laplace transforms, linear algebra, and Fourier series: physical applications stressed.

2085 Linear Algebra (3) F,S Prereq.: MATH 1552, 1555, or 2040, or equivalent. Credit will be given for both this course and MATH 2040, 2057, and 1635. Use of matrices for solving 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 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, eigenvalues and eigenvectors, Laplace transforms, and Fourier series.

2203 Mathematical Reasoning, Proportional and Algebraic Reasoning (3) F,S Prereq.: Professional Practice II Block. 12 sem. hrs. of mathematics including MATH 1201 and 1202, and a writing-intensive course in English (at least 3 hrs. lecture; 2 hrs. lab/field experience (as part of Professional Practice II Block); Mathematics content course designed to be integrated into the Professional Practice II Block. Emphasis is on understanding and communicating mathematical reasoning applied to the grades 6-1 classroom. Development of a connected, balanced view of mathematics; applications of Proportional Reasoning with the units, systems, and processes of measurement; appropriate techniques, tools, and formulas of measurement; interrelationships among mathematical understanding, and functions; applications of proportional and algebraic reasoning in mathematical situations and structures using contextual, numeric, graphic, and symbolic representations; written communication; and oral discussion.


3040 Capstone Course (3) F,S Prereq.: MATH 2040. The foundation of geometry, including work in Euclidean and non-Euclidean geometries. Credit will not be given for both this course and MATH 2045 or 2051.

4029 Calculus Internship Capstone (1) Prereq.: MATH 2001. Provides opportunities for students to consolidate their mathematical knowledge and to obtain a perspective on the ways in which mathematics is taught and used. Students will be paired with experienced graduate students and/or master teachers to participate in the planning and instruction of a recitation section of a 2000-level calculus course.

4020 Capstone Course (3) F,S Prereq.: credit or concurrent enrollment in ENCI 4002. 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.: credit or concurrent enrollment in ENCI 4002. 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.

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 2055, 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 eigenvectors, and vectors 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 Groups (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, and generating functions, combinatorial identities, generating function theory, existence problems, applications.

4181 Elementary Number Theory (3) S Prereq.: MATH 2055 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 4203. Abstract algebraic structures relevant to computers, graphs, groups, vector spaces, and graph design, group codes, semigroups, finite-state machines.

4204 Mathematical Models (3) S Prereq.: MATH 1552 and credit or registration in ENCI 1002. Construction, development, and study of mathematical models for real situations; basic examples, model construction, Markov chain models, models for linear optimization, selected case studies.

4205 Optimization Theory and Applications (3) S Prereq.: MATH 2001 and credit or registration in ENCI 2055. Linear programming.

4204 Mathematical Models (3) S Prereq.: MATH 1552 and credit or registration in ENCI 1002. Construction, development, and study of mathematical models for real situations; basic examples, model construction, Markov chain models, models for linear optimization, selected case studies.

4207 Differential Equations (3) S Prereq.: MATH 2057 and credit or registration in ENCI 2055. Linear differential equations, with attention to theory.

4301 Advanced Calculus I (3) F Completeness of the real line; Weierstrass Borel theorem; continuous functions including uniform convergence and completeness of C [a,b]; Riemann integration and the Darboux Criterion.
435 Special Functions (3) Prereq.: either MATH 2057 and 2090, or MATH 2057, 2065 or 2070 and 2085.
7883 Sturmian and orthogonal functions (such as Laguerre, Legendre, Hermite), orthogonal expansions including Fourier series, recurrence relations and generating functions, special functions (e.g., Legendre, Chebyshev, orthogonal polynomials, and other topics.
4470 Error-Correcting Codes (3) Prereq.: MATH 2055 or 2057, or consent of department.
7883 Sturmian and orthogonal functions (such as Laguerre, Legendre, Hermite), orthogonal expansions including Fourier series, recurrence relations and generating functions, special functions (e.g., Legendre, Chebyshev, orthogonal polynomials, and other topics.
7400 History of Mathematics (3) Prereq.: MATH 2040, 2057, or consent of department.
7281, 7282 Seminar in Commutative Algebra (1-3) V: Prereq.: consent of department. May be repeated for credit with consent of 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. Axions of the real number system, properties of real numbers, sequences and series of real numbers, continuity, differentiation, maximum and minimum principles, other topics such as boundary value problems.
7312 Real Analysis II (3) Prereq.: MATH 7311 or equivalent. Ascoli theorem, Stone-Weierstrass theorem, Hausdorff metric spaces, convergent sequences, Hilbert spaces, weak topologies, general measure and integration, Riesz representation theorem, other related topics.
7250 Ordinary Differential Equations (3) S: Prereq.: MATH 2057 or 4031, or equivalent. Existence and uniqueness for first-order equations and systems; linear equations, linear stability theory, other topics such as boundary value problems.
7255 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: analytic functions; power series; uniqueness theorems; mapping properties, normal families, other topics.
7356 Probability Theory (3) F: Prereq.: MATH 7311 or equivalent. Probability spaces, axioms of probability, independence, convergence concepts, laws of large numbers, convergence of series, law of iterated logarithm, central limit theorem, limiting distributions, martingales.
7370 Lie Groups and Representation Theory (3) V: Prereq.: MATH 7311 or equivalent. Lie groups, Lie algebras, subgroups, homomorphisms, the exponential map. Also topics in finite and infinite dimensional representation theory.
7375 Waves (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. Topics such as analytic function theory, 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, Polya's theorem, graphs and digraphs, combinatorial designs, incidence matrices, partially ordered sets, matroids, finite geometries, Latin squares, finite projective planes, matching theory.
7400 Combinatorics and 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 (3) Prereq.: either MATH 2057 or equivalent. Basic notions of general topology, with emphasis on Euclidean and metric spaces, continuous and differentiable functions, compactness, connectedness, and other related concepts, with an introduction to the topology of Euclidean spaces, and an introduction to the study of covering spaces.
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 7312 or equivalent. Fundamental group, homology, cohomology, and homotopy theory.
7550 Differential Geometry and Topology (3) V: Prereq.: MATH 7200 or equivalent. Study of general manifolds, vector fields, vector bundles, transversality, Riemannian geometry, other topics.
7560 Algebraic Geometry and Algebraic Topology (1-3) V: Prereq.: consent of department. May be repeated for credit with consent of department. Advanced topics such as algebraic geometry, algebraic groups, surgery theory, sheaf theory, or fiber bundles.
7690 Seminar in Topological Algebra (1-3) V: Prereq.: MATH 7200 or equivalent. Seminar in topological algebra, with an emphasis on advanced topics such as topology, group topology, and other topics.
7830 Selected Readings in Mathematics (1-3) Prereq.: consent of department. May be repeated for credit with consent of department. Advanced topics such as topics such as functional analysis, functional analysis, and other topics.
8000 Thesis Research (1-2 per sem.) "S"/"P" grading.
9000 Dissertation Research (1-2 per sem.) "S"/"P" grading.

MECHANICAL ENGINEERING • ME
2212 Introduction to Mechanical Engineering Design (2) Prereq.: ENG 100L, MATH 2101, ME 2101, or equivalent. 1 hr. lecture; 2 hrs. lab. Art and science of Mechanical Engineering design; reverse engineering; design methodology; computer-aided design; professional ethics; professional development.
2334 Thermodynamics (4) Prereq.: Grade of "C" or better in PHYS 2102 and PHYS 2103, or consent of department. May be repeated for credit with consent of department. Thermodynamic systems and control volumes; thermodynamic properties of single substances; work and heat in thermodynamic processes; analysis of refrigeration cycles; ideal gas mixtures, water-vapor mixtures and psychrometric chart; combustion.
2335 Introduction to Mechanical Engineering Computing (3) 2 hrs. lecture; 3 hrs. lab. See CS 2533.
2723 Materials of Engineering for Mechanical Engineers (3) Prereq.: CHEM 1201 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, behavior; typical metals and alloys, plastic 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, behavior; typical metals and alloys, plastic 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: Prereq.: Grade of "C" or better in CHEM 1550, ME 2533, or equivalent. May be repeated for credit with consent of department. Classification and study of engineering materials, their structure, properties, behavior; typical metals and alloys, plastic 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.
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, law of mass, weight, and force, mass, gas, liquid and solid behavior, and momentum; work and energy.
3343 System Dynamics and Modeling (3) Prereq.: CSCSME 2551, ME 1551, 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 control system design methods; root locus methods; state space methods; small signal stability; dynamic behavior; control systems theory; feedback systems; system identification; system modeling; linear systems; stability; linearization; time domain analyses, numerical simulation of mechanical systems.
3349, 3350 Engineering Practice 1 (1-5, 1-3) Prereq.: ME 2101 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.
3336 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 scientific and technology of electrical and electronic measurement systems; fundamental measurement theory; statistical error estimation; error propagation; instrumentation specifications; and digital instrumentation and data acquisition techniques.
analysis; extensive technical report writing.

3633 Manufacturing Processes & Materials (1) Prereq.: CM 1020 or CM 2734; 2 hrs. lecture and 3 hrs. lab. Mechanical manufacturing processes integrated into total manufacturing systems; CAD/CAM flexible manufacturing systems; casting, forming, welding; cold work processes; welding; processes and machinery; 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 ME 3400. Basic principles of materials science and the scientific method utilized to design and develop new materials and systems.

3834 Fluid Mechanics (4) 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 viscos flows; compressible flows.

3836 Special Problems (3) Prereq.: 2.50 cumulative GPA with consent of department. May be taken for a max. of 9 hrs. of credit. Library research, comprehensive study or laboratory investigation.

4133 Machine Design I: Kinematics of Machinery (3) F Prereq.: ME 2333 and 3133; or equivalent. Kinematic and dynamic analysis and design of mechanisms; synthesis of mechanisms; system design; 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-aided design and analysis methods.

4163 Intermediate Dynamics (3) F Prereq.: ME 3133 and a grade of "C" or better in MATH 2090. Rotating reference frames, rigid body dynamics, 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 3134, 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, 4813; 6 hrs. lab. Prereq.: senior standing in mechanical engineering, and course in heat transfer. Design projects coupled with separate components and combined testing of mechanical, tribological, and corrosion properties.

4723 Advanced Materials Analysis (3) F Prereq.: ME 2723 or 2733; 1 hr. lecture; 8 hrs. lab. Con- cepts and operations 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.

4803 Professional Responsibility (1) S Prereq.: ME 4573 or equivalent. Professional principles of the practice of mechanical engineering; professional codes; ethical considerations; professional practice; and professional responsibility.

6831 Sensors and Actuators (3) Prereq.: EE 3950, ME 3752, 4143; 3 hrs. lab. Prereq.: senior standing in mechanical engineering, and course in heat transfer. Design projects coupled with separate components and combined testing of mechanical, tribological, and corrosion properties.
residual stresses; plastic forming of metals.


7753 Thermodynamics of Solid Materials (3) Prereq.: ME 2723 or 2733 and any first level course in thermodynamics. Thermodynamic principles and their application to many material property relationships; chemical equilibrium in reactions; solid solutions and phase diagram enunciations; reaction kinetics; and phase equilibria.

7763 Advanced Corrosion Science and Engineering (3) Prereq.: ME 4763 or equivalent. Advanced topics in corrosion science and engineering, including the study of corrosion mechanisms, corrosion prevention, and corrosion engineering practices.

7813 Computation of Boundary Layer Flows and Heat Transfer (3) Prereq.: ME 3834 and 4435 or equivalent, and ME 4533 or equivalent. Finite-difference methods for the solution of parabolic and 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 motion and heat transfer used to solve complex problems involving fluid flow, heat transfer, and chemical reaction; mathematical models for turbulence, radiation, and heat transfer with their input and output data; solution to application of prediction procedures for practical situations.

7833 Inviscid Fluid Flow (3) Prereq.: ME 7863 or equivalent. Fluid mechanics 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 sem. hrs. Directed independent study for graduate students.

7933, 7943 Mechanical Engineering Problems (3,3) Prereq.: Consent of instructor. Problem solving in mechanical engineering. May be taken for a max. of 6 sem. hrs. of credit when topics vary, with consent of department. Mechanical engineering treatment of advanced treatment techniques in radiology.

8000 Thesis Research (1-12 per sem.) S’Y” grading.

9000 Dissertation Research (1-12 per sem.) S’Y” grading.

6. MEDICAL PHYSICS + MDP

General education courses are marked with stars (*).

★ 2051 Radiation Science for Medical Applications (3) F,S Prereq.: MAT 2005; or equivalent. Matter and energy; structure of the atom, nucleus, and quark; nuclear properties and reactions; interaction of light with matter; properties of ionizing radiation; instruments for detection and measurement, including radiographic and electronic devices. Properties of ionizing radiation, instruments for detection and measuring radiation, and biological use of radiation.

1401 Introduction to Medical Imaging (3) Prereq.: PHYS 2002 or equivalent; MAT 1550 or equivalent. Physics and engineering of diagnostic and therapeutic modalities in the biomedical sciences. Imaging of the body by various imaging techniques. X-ray imaging, computed tomography, magnetic resonance imaging, ultrasound, and nuclear medicine; clinical applications of these modalities.

4331 Radiation Protection and Exposure Evaluation (3) Prereq.: PHYS 2002 or equivalent. Control and evaluation of radiation exposure, ionization and internal dosimetry. Techniques of dose reduction, and consequences of radiation exposure.

4332 Radiation Protection Laboratory (1) 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 dosimetry, medical imaging, therapy, radiological imaging, and medical health physics.

4351 Radiation Detection and Instrumentation (2) Prereq.: PHYS 2002 or registration in MEDP 4351 or equivalent; consent of instructor. Introduction to the physics of detection, instrumentation, and data analysis techniques. Design and evaluation of detection systems for use in radiation therapy, radiological imaging, and medical 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) Prereq. selective enrollment 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.

7011 Advanced Tracer Methodology for Biological Sciences (3) Prereq.: MEDP 4301, 2 hrs. lab. Credits, electron microscopy, and quantitative characterization of tracer systems in modern biological research; combining tracer techniques with other analytical methods.

7111 Advanced Medical Imaging Physics (3) Prereq.: MEDP 4111, MATH 3532. Topics related to advanced research in medical imaging and diagnostic systems. Tomography; quantitative analysis of imaging systems by Fourier methods and QC acceptance testing; radiotransfer and image reconstruction; tracer methodology for quantitative imaging.

7121 Biostatistics (3) Prereq.: MEDP 4531 or consent of instructor. 3 hrs. lab. Effects of ionizing radiation on cellular, molecular, and organ systems levels of biological organization; study of x-rays, gamma rays, accelerators, and neutrals in radiation interaction with living systems; cohesive treatment of radiation biophysics with applications in medical physics and radiation oncology.

7211 Advanced Clinical Imaging Therapy (3) Prereq.: MEDP 7121, 7331. Open only to students currently enrolled in the Master of Science in Medical Physics and Health Physics program. Introduction to practical radiation oncologists to the evolution of radiation therapy, general oncology considerations, tumor radiobiology, non-intentional effects of radiation, and altered fractionation. Discussion of tumor biology and behavior, normal tissue effects, and treatment planning and delivery techniques for specific organ systems.

7260 Advanced Clinical Radiation Therapy Physics Rotation (3) 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 the clinical staff, introduction to the radiation therapy clinic and clinical duties of the radiation therapy 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) 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) 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 radiation therapy staff, introduction to the planning, delivery, and dosimetric aspects of advanced radiation therapy treatments such as brachytherapy, stereotactic systems, special physics techniques, 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.

7331 Radiation Shielding (2) Prereq.: MEDP 4331, 7557. Calculation of effective 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.

7357 Radiation Interactions and Transport (3) Prereq.: PHYS 7537 or equivalent experience in computer programming. Also offered as PHYS 7537. Photon, neutron, and electron interactions and evaluation of Monte Carlo algorithms; development of computer programs for solving practical medical physics problems.

7360 Monte Carlo Simulation of Radiation Transport (3) Prereq.: PHYS 7537 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 diagnostics.

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. Advanced treatment of a specific area of medical physics or health physics technology of current interest.

7993 Seminar (1) Prereq.: consent of instructor. Advanced study for graduate students interested in preparing for a career in advanced research. Preparing for the Board of Nuclear Medicine, for those licenses or for a career in advanced research. Preparing for the Board of Nuclear Medicine, for those licenses or for a career as a research scientist.

7999 Research (3) 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. Technical skills in research.

8000 Thesis Research (1-12 per sem.) S”Y” grading.

1. 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 of techniques.

1011 Leadership and Personal Development (1) F,S Prereq.: thorough knowledge of military science and the role of the leader. Focus on developing basic knowledge and comprehension of Army leadership dimensions while understanding the purpose of the Army, and its advantages for students.

1012 Intro to Tactical Leadership (1) F,S Prereq.: MILS 2001 and permission of instructor. 1.5 hrs. lab. Overview of leadership fundamentals, including setting direction, problem-solving, listening, presenting briefs, providing feedback, and teaming skills.

1015 Army Physical Fitness Training (3) 1.5 hrs. lab. Open to all LSU students. May be taken for a max. of 3 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) 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 styles and strategies 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). Comprehends the historical basis of the Army leadership framework explores the dynamics of adaptive leadership in the context of military operations.

3011 Adaptive Tactical Leadership (4) Prereq.: MILS 2161 and 2162 or equivalent. 3 hrs. lecture; 3 hrs. lab. Study, practice, and evaluation of adaptive leadership skills as presented with the demands of the ROTC Leader Development and Assessment Course (LDAC). Challenges facing leaders and their adaptive leadership operations are used to develop self-awareness and critical thinking skills.
Primary Applied Music Courses
These courses are for students whose declared major or minor is the specific instrument designated by the course number.

**4261 Symphony Orchestra (0-1)**

**GENERAL COURSES**

General education courses are marked with stars (★).

1001, 1002 Voice Class (2, 2) Open to nonmajors 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. Using 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. Using 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 I (Preparatory for MUS 4240) May be taken for a max. of 2 hrs. of credit. Technology in all voice Environments. 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) MUS 1108 or consent of instructor is prerequisite for 1109. Open only to nonmajors. Instruction for the beginner and lower intermediate student.
1130, 1131, 1132, 1133 Group Band 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 (1) May be repeated. Pass-fail grading. Weekly student recital and music seminar.

1701 Foundations of Music Study (3) A course 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 music emphasizing the development of critical listening skills and a non-technical, but thorough musical vocabulary; additional emphasis placed on the historical development 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 nonmajors. 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. Study of Western civilization to ca. 1750.

★ 2054 Survey of Music History II (3) Prereq.: grade of C or better in MUS 1740 and 1741. Study of Western civilization from ca. 1750 to the present.

2170 Music Education in the Elementary School I (3) Music fundamentals, materials, methods, and skills
Music

309

involved in teaching general music in the elementary school. 2175 Beginning Folk Guitar (3) Beginning level performance on the folk guitar; skills required include using 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 instrumentalists will be taken for 1 hr. of credit only. Development of fundamental skills in wind, string, and percussion instruments and voice. 2400 History of the Jazz Instrument (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 2711; grade of "C" or better in MUS 2731 is prerequisite for MUS 2732; 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-reading and keyboard harmony skills, melodic and harmonic dictation. 2733, 2734 HONORS: Music Theory I, II (4,4) Same as MUS 2731, 2732. Recommended for qualified students.

2741 Composition Techniques I (2-3) Prereq.: MUS 3771 and 3772 Instrumental Conducting II (2) hrs. lab. Employing the basic principles of the Alexander Technique; students will begin the process of making scores through experimental movement exercises and hands-on work with the instructor. 4030 Meditation for Performers (1) 2 hrs. lab. Not for graduate credit. Exploration of the various traditions, techniques, and objectives of meditation as they apply to the practice of music.

4030 Piano Accompanying (1) Open to pianists by permission of instructor. May be repeated for a max. of 4 sem. hrs. of credit. Individual projects in principles and practice of accompanying and performance reading.

4030 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.

4101 Piano Accompanying (1) Prereq.: consent of instructor. May be repeated for credit.

4124 String Accommodation (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 and methods for instruction in string instruments.

4126 Woodwind Literature (2) Prereq.: 12 sem. hrs. of applied woodwind instrument study or consent of instructor. May be repeated once. Independent study in solo and ensemble literature and methods for instruction in 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 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 for instruction in percussion instruments.

4172 String Literature and Pedagogy (2) Prereq.: 12 sem. hrs. of applied string instrument study or consent of instructor. Independent studies in methods and materials for instruction in brass instruments.

4173 Woodwind Instrument Pedagogy (2) Prereq.: 12 sem. hrs. of applied woodwind instrument study or consent of instructor. Independent studies in methods and materials for instruction in woodwind instruments.

4125 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, image and signal processing; and practical experience with commercial music software; and use of software applications.

4126 Music Technology II (3) Prereq.: MUS 4125 or consent of instructor. Advanced computer hardware and software unique to music applications: notation, sequencing, musical technological applications of digital audio, video and acoustical sound and specifically applied to the music education environment.

4216 Acting for Opera (1-2) Prereq.: permission of instructor. May be taken for a max. of 8 hrs. 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 skill, stage movement, stage makeup, and vocal and dramatic techniques for operatic roles.

4351 Song Literature I (2) The art song repertoire from the Renaissance through the Romantic period. 4352 Song Literature II (2) The art song repertoire from the French maîtres to contemporary English and American songs.

4400 Orchestral Repertoire for Instrumentalists (1) Prereq.: permission of instructor. May be taken for a max. of 3 sem. hrs. of credit. The student will explore repertoire for instrumentalists, including: preparation; score study and analysis; specialized practice techniques; and audition strategies. May be repeated for credit.

4500 Musical Theatre Production (1-3) Also offered as THEAT 4500. Credit 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 scores and orchestral scores.

4701, 4702 Organ Practicum (2,2) Prereq.: consent of instructor. MUS 4701 is prerequisite for 4702. Techniques of service and playing; techniques and materials of organ pedagogy.

4703 The Scientific Bases of Music (2) Musical acoustics; performance physics; psychoacoustics; an introduction to the physics of service and playing; techniques and materials of organ pedagogy.

4704 Advanced Aural Skills (3) Prereq.: a grade of "C" or better in MUS 3751. Concentrated work in sight singing with a special emphasis upon skills needed for professional activity in music education.

4712 Advanced Form and Analysis (3) Prereq.: a grade of "C" or better in MUS 3732. Complex forms and developmental techniques, focusing on the 19th century to the present.

4718 Styles and Practices of Beethoven and the Romantic (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 Impressionist period; analysis of selected literature and creative application of techniques, principles, and formal devices.

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, principles, and formal devices.

4721 Modal Counterpoint (3) Prereq.: grade of "C" or better in MUS 2732 or equivalent. Writing and analysis of counterpoint.

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; imitation; contrapuntal forms such as the invention and the fugue.

4730 Elementary Orchestration (2) Prereq.: grade of "C" or better in MUS 2732. Traditional orchestral practices.

4731 Intermediate Orchestration (2) Prereq.: MUS 4730. Orchestrating for full orchestra including extra-instrumental instruments; avant-garde instrumental techniques.

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, broadcast, motion pictures, and theatrical 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 sampling, software and hardware unique to music applications: notation, sequencing, musical technological applications of digital audio, video and acoustical sound and specifically applied to the music education environment.

4758 Piano Literature I (3) A survey of piano literature from Beethoven to the present. 4759 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 the intersection of digital media such as computer music programming, sound diffusion techniques, interactive computer music and digital media systems, intermediate applications, analysis of computer music.

4759 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.

4750 Music of the Middle Ages and the Renaissance (3) Prereq.: grade of "C" or better in MUS 2053 and 2054 or equivalent permission of instructor. May be taken for a max. of 6 sem. hrs. credit when topics vary.

4753 Folk and Traditional Music: Music History and Background (2) History of folk and traditional music in the United States and Europe; emphasis on Anglo-American folk songs.

4757 Piano Literature I (3) A survey of the keyboard repertoire from the late rennaissance through Haydn and Mozart.

4758 Piano Literature II (3) A survey of piano literature from the late rennaissance through Haydn and Mozart.
7172 Music Technology III (3) Prereq.: MUS 4215, 4216 or equivalent. Production of technological products for music education; theories of 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 the classical singing voice in the Western tradition of art song and emphasis on vocal registers, breath management, and anatomy, physiology, and acoustics of voice production; study of life-span changes of the voice and care of the human voice.
7272 Comparative Vocal Pedagogy (2) Prereq.: MUS 4710 and 4770; 1 hr. lab. Examination of the vocal pedagogical practices of 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 eminence.
7271 Principles of Voice Production (3) Prereq.: COMD 4250 and 4253. Anatomy and physiology of the respiratory, pharyngeal, and articular 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.
7278 Piano Literature II (2) Prereq.: MUS 4763 and 4764; or equivalent. Piano methods and literature at the intermediate and advanced levels.
7251 Instrumental Accompanying (2) May be repeated for a max. of 4 sem. hrs. of credit. Repertoire and techniques of accompanying for instrumental genres.
7252 Vocal Accompanying (2) May be repeated for a max. of 4 sem. hrs. of credit. Repertoire and techniques of accompanying for vocal genres.
7270 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 4710. Focuses on finding, evaluating, using, and citing materials in print, online, and recorded sources for music research.
7706 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 period music; 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.
7724 Seminar in Woodwind Literature I, II (2, 2) Methods, solo and chamber music for woodwinds.
7725 Seminar in Brass Literature (3) Methods, solo, and ensemble literature for brass instruments.
7726 Seminar in Woodwind Literature I, II (2, 2) Methods, solo and chamber music for woodwinds.
7727 Seminar in Brass Literature (3) Methods, solo, and ensemble literature for brass instruments.
7728 Seminar in Brass Literature (3) Methods, solo, and ensemble literature for brass instruments.
7730 Seminar in Percussion Literature (2) Methods, solo, and ensemble literature for percussion instruments.
7760 Survey of Jazz Styles (3) In-depth investigation of the American Jazz idiom from the perspective of historical jazz periods and specific artists.
7770 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.
7772 Stripped Instrument Pedagogy (2) Methods and materials for instruction in string instruments.
7773 Woodwind Pedagogy (2) Prereq.: MUS 3701 or 3702. 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 study in the methods and materials for instruction in woodwind instruments.
7774 Brass Instrument Pedagogy (2) Methods and materials for instruction in brass instruments.
7775 Percussion Pedagogy (2) Methods and materials for instruction in percussion instruments.
7776 Jazz Pedagogy (3) Pedagogical issues in jazz idioms including in the directing, selection of appropriate repertoire, improvisational performance practices, effective jazz practice habits, and concepts designed to foster creativity.
7777 Advanced Pedagogical Techniques (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.
7780 Theory and Analysis of Tonal Music (3) Prereq.: MUS 3710 or 3711 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.
7781 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.
7782 Advanced Tonal Counterpoint (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.
7783 Advanced Tonal Counterpoint (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.
7784 Advanced Tonal Counterpoint (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.
7785 Advanced Tonal Counterpoint (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.
7960 Performance Practices (3) Prereq.: MUS 3701 or successful passing of the Music History Diagnostic Examination. Each course may be taken three times for credit when topics vary. Only 6 sem. hrs. applicable to the MM degree. May be repeated for credit; maximum of 18 sem. hrs. of credit applicable to the MM degree when topics vary. Maximum of 9 hrs. of credit applicable to the MM degree when topics vary and only 12 additional sem. hrs. of credit applicable to the MM degree when topics vary. Maximum for MM and PhD combined is 18 hrs. of credit.

7979 Individual Projects in Music (1-3) Prereq.: consent of departmental faculty and dean of the School of Music. May be repeated for credit as follows: for master's degree, a maximum of 3 sem. hrs. from the master's or a total of 9 hrs. if both master's and doctoral totals included.

7998 Special Projects 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 (1) (new term.) S'79 grading.

9000 Dissertation Research (1-12 per sem.) S'79 grading.

9011 Doctoral Solo Recital (1-3) May be repeated twice (max. of 6 hrs. sem. credit). Students specializing in organ may repeat four times (max. of 12 hrs. sem. credit).

9002 Seminar - Doctoral Option (1-3)

9003 Doctoral Lecture Recital (1-3) Does not fulfill final project requirement for DMA (MUS 9010). 15 Concertos 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 Doctoral Music of Classical Music Recital (2) May be repeated for credit.

9099 Research and Monograph (1-12) S/U grading. For DMA candidates in performance only. May be repeated until monograph is completed. Does not fulfill final project requirement for DMA (MUS 9010).


9201 Seminar in Music Theory (3) For doctoral candidates only. Does not fulfill final project requirement for DMA (MUS 9010). Prereq.: MUS 3701 and 3702.

9758, 9759 Repertoire (3,3) Each course may be taken for a max. of 6 hrs. of credit per course. 9758, 9759 Repertoire (3,3) 9756, 9757 Repertoire (3,3)

9901 Doctoral Seminar in Musical Composition (1-3) May be repeated for credit; max. amount of credit applicable to a degree is 12 hrs. Participation in the Composer's Forum is part of course work.

9925 to 9937 (Series) Seminar in Literature and Style in Performance (3,3) Does not fulfill final project requirement for DMA (MUS 9010). Prereq.: consent of department. NS 7527 is prerequisite for 7528. Each course may be taken once. Pass-fail grading. Participation in and critical analysis of various performances and 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 Bass 9937 Percussion

MUSIC EDUCATION • MUED

1000 Foundations of Music Education (3) Credit will not be given for both MUED 3001 and 3003. 2 hrs. lecture; 1 hr. lab. Course is for music majors only. Field observations in the music major 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.: MUCD 1000. Credit will not be given for both this course and MUCD 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 research in teaching the elementary-level classroom; curriculum development.

3171 Principles of Teaching Secondary School Music (3) Prereq.: MUED 1000 and MUED 2045. Advanced study of pedagogical skills, 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 Prereq.: one sem. of MATH 1021 or equivalent and one sem. of chemistry or physics; 2 hrs. lecture; 3 hrs. lab. Nuclear structure, interactions, interactions of radiation with matter; radiation detection and measurement. 4331 Radiation Protection (3) F Prereq.: 2 hrs. lecture; 3 hrs. lab. Also offered as ENVS 4411. Radio tracers, stable tracers, and radiation effects in both natural and laboratory contains. 4352 Environmental Radiological Evaluation and Remediation (2) S Prereq.: NS 3411 or permission of instructor. Environmental radiological evaluation and remediation. 4527 Nuclear Reactor Theory and Design (3) F Prereq.: two semesters of physics and an introductory course in computer programming. Characteristics of radio- active 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 core interface with nuclear facilities.

4570 Nuclear Facility Safety (3) S Prereq.: PHYS 2102 or equivalent. Safety aspects of facilities that utilize radiation sources including hospitals and industrial sites; accident sequences; dispersion of radionuclides; estimation of dose and dose commitments; and the impact of nuclear facilities.

7115 N-15 Stable Tracer Methodology for Biological Sciences (2) S-F Prereq.: consent of instructor. 1 hr. lecture; 2 hrs. lab. Use of stable N-15 and applications in methodology in biological nitrogen systems, combining N-15 procedures with mass spectrometer techniques.

7220 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. How materials govern structure and properties of materials used in nuclear reactors; radiation effects, problems in selection, fabrication, and use of these materials. How materials and applications in radiation protection; shielding design; quality assurance; measurements of neutron behavior in multiplying and non-multiplying media; development of design parameters from empirical data.

7257, 7258 Reactor Engineering (3,3) S-F 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.

7259 Nuclear Reactor Dynamics (3) S Prereq.: NS 7527 or equivalent. Computer-aided reactor analysis; analytical and numerical point kinetics calculations; perturbation theory expressions for reactivity; feed-back effects; reactor control rod movement and control rod out; coupled neutronics and thermal hydraulic transients; space-time kinetics.

7305 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 tech- niques; 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) S-F Prereq.: NS 4527 or equivalent. Engineering aspects of fission reactor systems, including fuel behavior, energy removal, materials selection, and core interface with the plant.

7975 Waste Fuel 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, nuclear phenomena; boiling, convection, combustion, critical flow, loss of coolant accidents.

OCEANOGRAPHY AND COASTAL SCIENCES • OCS

General education courses are marked with stars (★).
## Oceanography and Coastal Sciences

### 4052 Physiology (4) Prereq.: BIOL 1209 and 2209. 2 hrs. lecture; 4 hrs. lab. See BIOL 4052.

### 4090 Marine and Environmental Microbiology (3) F-O Prereq.: BIOL 1209, 1209H, and CHEM 1210 or equivalent. Application of microbiological activity in biogeochemical cycles extreme environments and major oceanic pristine areas. 3 hrs. lecture.

### 4093 Field Marine Ecology (4) Prereq.: BIOL 1209 and current permission of the instructor. Field study of marine and wetland ecosystems in Louisiana coastal zone. 4 hrs. lecture; 6 hrs. lab. See BIOL 4081.

### 4128 Wetland Hydrology and Hydrodynamics (3) F Prereq.: MATH 1550, 1552, GEOL 1001 or equivalent. Application of hydrologic principles to wetlands and their influence on coastal Louisiana. 4 hrs. lecture; 6 hrs. lab. See BIOL 4081.

### 4131 Environmental Chemistry of Wetlands (3) F Prereq.: CHEM 1210 and MATH 1550; credit or registration in BIOL 1209. Basic principles of chemical and physical processes in wetland ecosystems. 4 hrs. lecture; 6 hrs. lab. See BIOL 4081.

### 4156 Environmental Chemistry of Wetlands (3) F Prereq.: CHEM 2210 or equivalent. Chemical and physical processes in wetland ecosystems. 4 hrs. lecture; 6 hrs. lab. See BIOL 4081.

### 4170 Physical Oceanography (3) S Prereq.: CE 2200 and MATH 1552, or consent of instructor. Dynamics of rotating, stratified, incompressible fluid. Wave theories of water gravity waves, vorticity, geostrophic adjustment. 3 hrs. lecture; 4 hrs. lab. See BIOL 4081.

### 4132 Estuarine Ecology (3) Prereq.: CE 2200. Plankton, phytoplankton, and microorganisms in estuaries and coastal ecosystems. 3 hrs. lecture; 4 hrs. lab. See BIOL 4081.

### 4166 Wetland Delineation and Functional Assessment (3) F-O Prereq.: BIOL 1209 or equivalent. Use of vegetation, soils, and wildlife in the delineation of wetlands. 3 hrs. lecture; 4 hrs. lab. See BIOL 4081.

### 4172 Weather Analysis and Satellite Meteorology (3) F Prereq.: BIOL 1209 and consent of instructor. Meteorological and climatic systems, and their influence on coastal Louisiana. 3 hrs. lecture; 4 hrs. lab. See BIOL 4081.

### 4372 Ecosystem Analysis (3) F-O Prereq.: BIOL 1209 and CHEM 1210, or consent of instructor. Basic principles of ecosystem theory and analysis. 3 hrs. lecture; 4 hrs. lab. See BIOL 4081.

### 4374 Coastal Oceanography (3) Prereq: BIOL 1209. Dynamics of coastal oceanic processes and ecosystems viewed as a whole and applied to major biomes. 3 hrs. lecture; 4 hrs. lab. See BIOL 4081.

### 4410 Coastal Zone Management (3) S Prereq.: consent of instructor. Coastal zone management systems, their influence on coastal Louisiana. 3 hrs. lecture; 4 hrs. lab. See BIOL 4081.

### 4415 Ecosystem Modeling and Analysis (3) F Prereq.: MATH 1550 and knowledge of a programming language. Use of simulation models in understanding ecosystem dynamics. 3 hrs. lecture; 6 hrs. lab. See BIOL 4081.
estuaries, turbidity and mixing in estuaries, seiches, storm surges, internal waves, salt balance, and inlet flows.

7126 Marine Geology in Coastal Waters (3) V Prereq.: OCS 4170. Mechanics of circulation in coastal currents; buoyancy driving, wind driving, coastal jets, longshore and rip currents; controlling conditions; 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) S-U Interactions between major dynamical processes and sedimentary responses in nearshore environments; classification of coastal areas; roles of processes and their effects in coastal sedimentology; changes in stability and functioning of coastal and interior wetland environments; feedback of biogeochemical changes in wetlands to estuarine environments.

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 evolving water column, including oceanography, pore water processes and interactions across-sediment-water interface, and early diagenesis; emphasis on an in-depth series of radionuclide applications in marine geochemistry.


7156 Biogeochecmistry of Wetland Soils and Sediments (3) S-O Same as AGRO 7156. Microbially and redox chemistry processes, aerobic respiration, lithotrophic processes in anaerobic environments, 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. Microbially and redox chemistry processes, aerobic respiration, lithotrophic processes in anaerobic environments, and petroleum hydrocarbons in water, soil, and sediment samples; techniques presented in terms of application of analytical chemistry to environmental and natural systems.

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.

7171 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.

7250 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) Prereq.: consent of instructor. Study of marine environments under various environmental factors such as temperature, nutrients, radiation, transparency, currents, and water-masses; physical and chemical properties of seawater, biological productivity, trophic dynamics and case studies; life history, and biogeochemical features; sampling theory, collecting techniques, population and community biology, production, analytical models, and economic significance.

7311 Marine and Estuarine Plankton (3) S-U Prereq.: background in ecology, invertebrate zoology, limnology, or physiology; and consent of instructor. Structure and function of marine plankton; changes in plankton and populations in response to oceanographic factors.

7309 Global Climate Change and Wetlands (2) Prereq.: consent of instructor. Impact of projected global warming on the stability and functioning of coastal and interior wetland environments; feedback of biogeochemical changes in wetlands to estuarine environments.

7340 Biogeochemistry of Wetland Soils and Sediments (3) S-O Same as AGRO 7340. Microbially and redox chemistry processes, aerobic respiration, lithotrophic processes in anaerobic environments, and petroleum hydrocarbons in water, soil, and sediment samples; techniques presented in terms of application of analytical chemistry to environmental and natural systems.

7401 Introduction to Petroleum Engineering (2) F Prereq.: MATH 1021, or equivalent. Scientific study of the generation and movement of petroleum, and the structure and function of the reservoir it leaves behind.

7403 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.

7404 Reservoir Fluid Properties (3) F Prereq.: credit or registration in PHYS 2102. Physical and chemical properties of petroleum reservoir fluids related to the production of oil and gas.

7406 Computerized Petroleum Engineering (3) Prereq.: consent of instructor. Application of computer software to petroleum engineering problems; the use of computers in petroleum engineering.

7423 Cellular and Molecular Immunology (3) F Prereq.: BIOL 4121 or equivalent. Cellular and molecular basis for the immune response; emphasis on novel therapeutic approaches for autoimmune diseases and cancer.

7424 Diseases of Aquatic Animals (3) F Prereq.: 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.

7501 Veterinary Cellular Pathology (3) F 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.

7502 Advanced Systemic Veterinary Pathology (5) V Prereq.: DVM degree or equivalent and credit or concurrent enrollment in Pathology. Diagnosis by means of electric, acoustic, and computer generated data analysis. Immunophenotyping, DNA, and functional assays as well as correlation with clinical and histopathological findings.

7508 Veterinary Dermatopathology (1) F 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.

7514 Laboratory Animal Pathology (2) V 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.
4086 Well Design (3) V Prereq.: PETE 4045, CE 2460 or ME 3533, and CE 3400. Analysis and design of well production systems; rod pumping, gas lift, and chemical flooding.

4050 Reservoir Dynamics (3) S Prereq.: PETE 2012, 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) V Prereq.: PETE 3025, 3053, and IE 3502. Quantitative study and behavior prediction of volumetric and water-drive reservoir systems in varying reservoir balances.

4056 Numerical Simulation of Improved Recovery Processes (3) S Prereq.: MATH 3003, and PETE 4050 and 4051. Use of mathematical models to predict oil production and performance of oil reservoirs.

4058 Reservoir Mechanics Laboratory (1) S Prereq.: PETE 4051. 3 hrs. lab. Simulation of reservoirs with physical models; fluid flow in porous media.

4089 Drilling Data Acquisition and Processing (1) S 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 drilling operations. This includes the well, methods and techniques currently used in the oil and gas industry.

4082 Secondary Recovery of Petroleum (3) V Prereq.: PETE 4045. 3 hrs. lab. Explores the use 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 bit wear and penetration rate; determination of rock strength and fluid 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 assessment and petroleum engineering technologies; basic concepts regarding oilfield waste generation, toxicity, and environmental regulatory processes; 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 productivity; drilling fluid and cutting analysis; core analysis; formation tester; drillstem test; analysis of openhole logs by overcoring, cored, 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; use of geographical and logistical factors.

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. Only one course or course equivalent of current petroleum engineering design.

4253 Utilization and Appraisal of Petroleum Properties (3) V Prereq.: PETE 4045 and 4051. Technical evaluation of immiscible fluids engineering aspects of utilization and evaluation of petroleum properties subject to joint management.

4998 Senior Project (3) S, Su. senior status in the College of Engineering, ENGR 2000. Written and oral presentation required. First phase of theoretical and/or experimental investigation, subject to approval in petroleum engineering.

4999 Senior Project II (1) F, S. Prereq.: PETE 4998 and senior standing in the College of Engineering. Written and oral presentations of theoretical and/or experimental investigation, including a literature review, of an approved topic in petroleum engineering.

7195 Reservoir Engineering (3) See GEOL 7195.

7201 Fluid Flow in Porous Media (3) V Prereq.: PETE 4050 and 4056, or equivalent. General hydrodynamic equations and the mathematical models used to analyze two-dimensional flow problems and potential flow problems; gravity flow systems; two-fluid systems; systems with nonuniform properties; well bore systems using computerized streamline tracking methods.

7202 Advanced Well Testing Theory and Analysis (3) V Prereq.: PETE 7201. Analysis of pressure data to determine flow pressures and rate responses in flowing reservoirs; 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 3533 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 lifting systems.

7212 Well Completion Design (3) V Prereq.: PETE 4046 or consent of instructor. Systems analysis for optimum production design by designing best combination of tubing, flow lines, choke sizes, perforation density, and separator pressure; inflow performance of reservoirs; well completion techniques; well testing.

7221 Drilling Data Acquisition and Processing (3) V Prereq.: PETE 4050, 4060, and 4046 or equivalent. Mud and surface fluid sampling; reservoir evaluation, downhole data acquisition with drilling while drilling, data processing; formation evaluation and data analysis.

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 the divine; 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 the main writings of classical and medieval philosophy.

2034 HONORS: Tutorial in Ancient and Medieval Philosophy (1) To be taken concurrently with PHIL 2035. 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.

2028 Philosophy of Science and Society (3) Prereq.: completed analytical reasoning area of general education or consent of instructor. Logic, evidence, probability, 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. plus one grade of 'B' or higher, and a GPA of at least 3.0 in all work taken. Readings, conferences, and reports under faculty direction.

3003 Cartesian Idealism (3) Basic themes of existentialism: science; the works of Kierkegaard, Nietzsche, Jaspers, Heidegger, Camus, Marcel, and Sartre.

3007 Logic, Science, and Society (3) Prereq.: completed analytical reasoning area of general education or consent of instructor. Logic, evidence, probability, induction; objectivity and relativism; technology and utopia.

3003 French Existentialism (3) Major themes, issues, and themes: the concept of alienation, existential despair, and the question of Being; death, nothingness, and anxiety; freedom, responsibility, and values; the ethics and the other; authors include Jean-Paul Sartre, Simone de Beauvoir, Maurice Merleau-Ponty, Albert Camus, and existentialism as philosophical texts.

3003 French Existentialism (3) Major themes, issues, and themes: the concept of alienation, existential despair, and the question of Being; death, nothingness, and anxiety; freedom, responsibility, and values; the ethics and the other; authors include Jean-Paul Sartre, Simone de Beauvoir, Maurice Merleau-Ponty, Albert Camus, and existentialism as philosophical texts.
4931 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 as Christology, the nature and meaning of faith, revelation, incarnation, faith and science, Christianity and other religions.

4920 Seminar in Philosophy (1-3) May be taken twice for credit when topics vary.

4952 Topics in Metaphysics (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Topics may include ontology, modality, existence, reality, fundamentality, identity (physical and personal), realism, and the meaning of life.

4933 Contemporary Analytic Philosophy (3) Prereq.: one logic course and either 2035 or 2035 equivalent. 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. Themes 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 Metaphysic 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.: consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary. Topics may include naturalized epistemology, internalism vs. externalism about justification; a priori knowledge; truth; skepticism; Bayesian approaches to justification, contextualist theories of knowledge, and the possibility of non-inferential justification.

4951 Philosophy of Language (3) Prereq.: PHIL 2035 or 4935 or equivalent. Philosophical issues related to concept formation and theory construction in the natural, behavioral, and social sciences.

7700 Philosophy of Science (3) Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Topics include ontology, modality, existence, reality, fundamentality, identity (physical and personal), realism, and the meaning of life.

4952 Topics in Metaphysics (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Topics include ontology, modality, existence, reality, fundamentality, identity (physical and personal), realism, and the meaning of life.

4933 Contemporary Analytic Philosophy (3) Prereq.: one logic course and either 2035 or 2035 equivalent. 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. Themes 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 Metaphysic 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.: consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary. Topics may include naturalized epistemology, internalism vs. externalism about justification; a priori knowledge; truth; skepticism; Bayesian approaches to justification, contextualist theories of knowledge, and the possibility of non-inferential justification.

4951 Philosophy of Language (3) Prereq.: PHIL 2035 or 4935 or equivalent. Philosophical issues related to concept formation and theory construction in the natural, behavioral, and social sciences.
2221 Introduction to Mechanics (3) Prereq.: PHYS 2102 or 2104 and MATH 2057. Basic concepts of mechanics with emphasis on kinematics and simple statics.

2231 Electricity and Magnetism (3) S Prereq.: PHYS 2221 or CHEM 4581 and credit or registration in MATH 2057 or 2090. Electric and magnetic fields, properties of matter in electric and magnetic fields, and Ohm’s law.

★ 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 principles of physics; provides appreciation of physics; does not develop technical skill. 2411 Computational Science I (3) Prereq.: PHYS 2221; or PHYS 4102; or MATH 2057; or CHEM 4581 and credit or registration in MATH 2057. 2 hr. lecture; 2 hr. 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.


4002 Science Teaching in Secondary School III: Instructional Strategies in Science (1) Prereq.: Registration in EDCI 4003 or equivalent and credit in EDCI 3001 and 3002. In-depth classroom-based instructional strategies that depart from the lecture style (cooperative learning or open-ended problem exploration); design and presentation of such a strategy; laboratory safety program management.


4005 Science Research Methods (3) See BIOL 4005.

4098 Instrumentation Electronics for Scientists (3) S Prereq.: PHYS 2002 and registration in MATH 2065 or 2090; or CHEM 4581 and credit or registration in MATH 2057. Basic electronic techniques, fiber optics, spatial filtering, holography, and instrumentation, particle accelerators and detectors, nuclear properties, abundance and stability of isotopes of the elements, and to nuclear reactions, with nuclear astrophysics.

4399 Research in Experimental Physics (3) S Prereq.: PHYS 2102 and consent of instructor. 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. 47560 Special topics in Physics (3) S Prereq.: Consent of instructor. 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.: Consent of instructor and department chair; part of the MNS degree program. Application of conservation principles to development of classical physics.

6141 Quantum 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. Quantum theory: application to atoms, molecules, solids, and nuclei.

6919 Research Participation for Teachers (3) Su only-V Prereq.: PHYS 2002 or 2102. May be taken for a max. of 6 sem. hrs. of credit.

6918 Laboratory Methods for Teachers (3) Su only-V Prereq.: PHYS 2002 or 2102. 1 hr. 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.

6911 Seminar in Current Developments in Physics (3) Su only. Seminar in current developments in physics. 6916 Seminar in Special Topics in Physics (3) Su only-V Prereq.: PHYS 2002 or 2102. May be taken for a max. of 6 sem. hrs. credit.

7211, 7212 Mathematical Methods of Theoretical Physics (3,3) F Prereq.: PHYS 4112 or equivalent. PHYS 7211 is prerequisite for 7212. Advanced topics in mathe-matical methods of theoretical physics; mathematical foundations of quantum mechanics. 7221 Classical Mechanics (3) Su Prereq. of study of particle mechanics and rigid body mechanics using the methods of Lagrange’s equations, Hamilton’s equations, canonical transformations, and Hamilton-Jacobi theory.

7227 Mechanics of Deformable Bodies (3) V Mechanics of inelastic and Newtonian viscous fluids; elasticity of solids. 7232 Classical Electrody-namics (3,3) S Prereq. for PHYS 7231 is prerequisite for 7232. Modern methods of classical and quantum statistics, with application to special problems.

7231, 7242 Quantum Mechanics (3,3) F,S Prereq.: PHYS 4142 or equivalent. PHYS 7242 is prerequisite for 7242. Quantum mechanics; semi-classical and relativistic quantum mechanics, operators and matrices, intrinsic and orbital angular momentum, 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 and gravitational waves.

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 I, II (3,3) V Prereq.: PHYS 7242; PHYS 7353 is prerequisite for 7354. Application of quantum theory to atoms 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; superconductivity; magnetic demagnetization.

7363, 7364 Condensed Matter Physics (3,3) V Prereq.: PHYS 7242 and 7244. 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.

7371, 7372 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 symmetric and asymmetric nuclei, and comparisons between theory and experimental results. 7383, 7384 High Energy Particle Physics (3,3) F Prereq.: PHYS 7241 and 7242. High energy physics, the Standard Model of elementary particles, and the role of experimental evidence in testing new ideas.

7398 Graduate Laboratory (3) S Prereq. 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.


7537 Radiation Interactions and Transport (3) F Prereq.: PHYS 7221 or equivalent experience in computer programming. Same as MEDP 7537. 7538 Monte Carlo Simulation of Radiation Transport (3) Prereq.: MEDP 7537 or consent of instructor. Same as MEDP 2262 or equivalent experience in computer programming. Same as MEDP 7538.

7741, 7742 Stellar Astrophysics (3,3) F,S Prereq. for 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) S,F Prereq. for PHYS 7751 is prerequisite for PHYS 7752. See ASTR 7751, 7752.

7982 Computational Physics II (1-6) V Prereq.: PHYS 7411. Computational approaches to modern high school and college teaching of physics.

7983 Topics in Astronomy and Astrophysics (3) V May be taken for a max. of 6 hrs. of credit when topics vary. See ASTR 7783.

7987 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.

7983 Many-Body Theory (3) V Prereq.: PHYS 7424. Density functional theory of electronic structure, mean field, and renormalization group theory of phase transitions; linear response theory; quantum transport; Landauer theory of Fermi liquid; Fermi liquids, collective excitations, phase transitions.

7985 Topics in Advanced Physics (3) V May be repeated for credit. Pass-fail grading.

7986 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.) 3’7*’grading. 9000 Dissertation Research (1-12 per sem.) 3’7*’grading.

PLANT HEALTH • PLHL

2050 Introduction to Pest Management (4) S Prereq.: AGR 2028, 2038, 2402, or 2412 and credit or registration in MATH 2057 or 2090. Introduction to pest management research area culminating in acceptable written reports.

2062 Pest Management Seminar (1) F Prereq.: PLHL 3000 or equivalent. Review and discussion of internship experiences including topics in agricultural pest management and urban entomology; development of professional skills.

316 Physics
3060 Introductory Plant Physiology (4) Prereq.: BIOL 1202 and 1209; CHEM 2060 or 2461. 3 hrs. lecture; 2 hrs. lab. 4 hrs. credit. 3060. Life processes of plants.

3900 Undergraduate Research in Plant Pathology (1-3 Y) Prereq.: PLHL 4000 or equivalent and consent of instructor. May be repeated for a max. of 36 sem. hrs. of credit. Research experience for students contemplating graduate study in plant pathology.

3900 Undergraduate Research in Crop Physiology and Weed Science (3-6) Prereq.: PLHL 4000 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 and weed science.

4000 General Plant Pathology (3) Prereq.: BIOL 1201, 1208 and 1402; or equivalent: 2 hrs. lecture; 3 hrs. lab. Natural disease, disease development, and plant diseases. Interactions between plant systems and their control. 4000. Introduction to disease diagnosis, and control of developmental and environmental signals; plant-parasite interactions and host-plant interactions to development of disease symptoms caused by plant pathogenic fungi, bacteria, viruses, mycoplasms, 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 2461. 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 plant disease control.

4002 Special Topics in Agricultural Pest Management (1-3 V) V Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Lab may be required. Subjects not covered in other weed science or plant pathology courses.

4018 Plant and Animal Diseases (4) F See ENTR 4018.

4045 Introductory Mycology (4) Prereq.: BIOL 1202 and 1209. 3 hrs. lecture; 3 hrs. lab. Same as BIOL 4054.

4444 Special Problems (1-5) S, V Prereq.: consent of instructor. 1 hr. lecture; 4 hrs. clinic/practicum. Pass/fail grading. Faculty-supervised experiences in plant pathology research, disease diagnosis, and control.

8800 Special Projects (1-5) S Prereq.: consent of instructor. May be taken for a max. of 9 sem. hrs. credit. Faculty supervised, independent research other than thesis or dissertation research.

9000 Dissertation Research (1-9 per sem.) $74/U grading.

POLITICAL SCIENCE + POLI

General education courses are marked with stars (*).

★ 1001 Fundamental Issues of Politics (3) F, Su Central questions at issue in politics; their significance.

★ 2001 Analytical Political Theory (3) Techniques of analysis, logic of empirical research, and the use of simulation.


★ 2051 American Government (3) F. S, Su Honors course on the structure, 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 democracies, post-communist, and developing societies; emphasis on major actors and institutions.

★ 2050 Government of Louisiana (3) F, Su, Su, Su Prereq.: POLI 2051 or equivalent. State and local government and politics in Louisiana.

★ 3001 Introduction to International Politics (3) F 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 Basic concepts of normative and empirical political thought.

2070 Public Policy Making: An Introduction (3) S Sequential process of policy making from problem identification, to study, research, and work in governmental or private agencies concerned with public policy, through legislation, implementation, and evaluation of impact; application to such areas as civil rights, welfare, urban affairs, taxation, and government spending.

3000 HONORS: Thesis (3) Dissertation of political science honors program; details available from department.

3090 HONORS: Legislative Practice (3) Prereq.: consent of instructor. May be taken for a max. of 8 sem. hrs. of credit.

3072 Seminar (1-3) S, S, S Prereq.: MAYBE 4000 or equivalent. 1 hr. credit. 3072. Seminar topics vary.

5070 Public Policy Making: An Introduction (3) S Sequential process of policy making from problem identification, to study, research, and work in governmental or private agencies concerned with public policy, through legislation, implementation, and evaluation of impact; application to such areas as civil rights, welfare, urban affairs, taxation, and government spending.

3000 HONORS: Thesis (3) Dissertation of political science honors program; details available from department.

3090 HONORS: Legislative Practice (3) Prereq.: consent of instructor. May be taken for a max. of 8 sem. hrs. of credit.

3072 Seminar (1-3) S, S, S Prereq.: MAYBE 4000 or equivalent. 1 hr. credit. 3072. Seminar topics vary.

9011 Undergraduate Internship in Political Science (1-6) F 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.

3099 Contemporary Political Issues (3) For undergraduates. The Legislative Practice, for the non-enrolled student 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) S Same as POLI 4996, 4997, with special honors emphasis for qualified students.

3991 Undergraduate Internship in Political Science (1-6) 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.

3099 Contemporary Political Issues (3) For undergraduates. The Legislative Practice, for the non-enrolled student 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) S Same as POLI 4996, 4997, with special honors emphasis for qualified students.

3991 Undergraduate Internship in Political Science (1-6) 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.

3099 Contemporary Political Issues (3) For undergraduates. The Legislative Practice, for the non-enrolled student in the honors program may be admitted with consent of the instructor. Subject matter and instructor vary. Details available from the department during registration.
4096 Contemporary Political Theory (3) S Political thought from Nietzsche to present.
4097 Political Theory offered as REL 4097. An exploration of the relationship between theology and politics, from the ancient Greeks and Hebrews to contemporary Christianity and political theory. Prerequisite: Pre-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, political, and social issues; public policy and public law will be examined.
4324 Studies in Literature and Politics (3) See ENGL 4234. Examine the role of literature and the social, cultural, and political forces that shape and are shaped by it. Special emphasis on the role of literature in the education of the individual.
7900 Professional Development (1) F, Pass-fail grading.
7901 Seminar in American Politics (3) V May be taken for a max. of 6 hrs. of credit when topics vary.
7910 Graduate Internship in Political Science (1-6) F,S,Su 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 for degree. Prerequisites vary. 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 6 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 the Urban Polity (3) See PADM 7918.
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) V May be taken for a max. of 6 hrs. of credit when topics vary.
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 6 hrs. of credit when topics vary.
7942 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 international relations.
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 hrs. of credit when topics vary.
7971 Special Topics in Comparative Politics (3) May be taken for a max. of 9 hrs. of credit when topics vary.
7972 Seminar in the Politics of International Economic Relations (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, legislative and cabinet systems, institutions and actors, and impact of political behavior on social and political processes and policies.
7975 Seminar in the American Political System (3) S Special emphasis on the role of political parties and elections.
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 hrs. of credit when topics vary.
7980 Seminar in Political Theory (3) S Special emphasis on the role of political theory.
7981 Seminar in Classical and Medieval Political Theory (3) V May be taken for a max. of 6 hrs. of credit when topics vary.
7982 Seminar in Early Modern Political Theory (3) S Special emphasis on the role of political thought.
7990 Seminar in Analytical and Empirical Political Theory (3)
7991 Special Topics in Political Theory (3) V May be taken for a max. of 6 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 (3-5) May be taken for a max. of 6 hrs. of credit when topics vary.
8000 Thesis Research (1-12 per sem.) S,F,SU. "7'7*" grading.
9000 Dissertation Research (1-12 per sem.) S,F,SU. "7'7*U" grading.

PORTUGUESE • PORT

Native speakers of Portuguese will not receive credit for courses marked with an asterisk (*).

*1101 Beginning Portuguese (4) Development of basic language skills through oral and written exercises and reading texts; emphasis on communicative competence.
*1102 Advanced 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. Continuation of listening, speaking, writing, and reading skills.

Poultry Science • PSLC

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) S, Su. 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 supervisor. 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, etc.; 40 hr. clock supervision for a period of not less than two months.
3900 Poultry Research (1-3) F,S,SU Prereq.: consent of department head. May be taken for a max. of 4 hrs. of credit when topics vary. Prerequisites: elementary statistics and applied biology. Feeding, breeding, management, and marketing problems. 4031 Incubation and Hatchery Management (2) F-O Preq.: Demonstrated ability to use scientific method, to learn independently, and to apply knowledge to practical problems. 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 flock; emphasis on egg formation and oviposition; other physiological factors of economic importance.
4052 Poultry Management (3) S-E Preq.: 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 include: current poultry production or poultry products areas.
7901 Seminar (1-3) F May be taken for a max. of 4 hrs. of credit during period of graduation. Graduate students in poultry science must participate in a report and discussion group on current literature in their fields.
PSYC 2000 or 2060 or equivalent

2004 Psychology of Adjustment (3) Prereq.: Same as PSYC 2000, with special honors for qualified students

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.


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 Practicum in Clinical Psychology (1) Prereq.: PSYC 2000 or 2060 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 2060, and consent of instructor. Test construction, standardization, validation; intelligence, clerical, mechanical, spatial aptitude tests; interest and personality tests; test batteries.

3030 Cognitive Psychology (3) Prereq.: PSYC 2000 or 2060. 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 2060. Organizational psychology, leadership, job satisfaction, motivation, human relations; psychology of human engineering; 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.


3140 Advanced Social Psychology (3) Prereq.: PSYC 2040 or equivalent. Current theories of socialization; existing methodologies and interdisciplinary influences.
7670, 7671 Practicum in Developmental Psychology (1-6 each) Prereq.: consent of instructor. May be taken for a max. of 12 hrs. of credit when topics vary.
7968 Current Problems in School Psychology (3) Prereq.: consent of instructor. May be taken for a max. of 12 hrs. of credit when topics vary.
7970 Teaching of Psychology Practicum (1-3) Prereq.: PSYC 7990 or equivalent. Supervised teaching in psychology. Topics vary. 7970, 7971 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.
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 Sexual Behavior and Criminality (3) Prereq.: graduate standing in psychology or consent of instructor. Theoretical and empirical considerations relevant to sexual behavior, as they relate to health and society.
7976 Current Problems in School Psychology (3) Prereq.: consent of instructor. May be taken for a max. of 12 hrs. of credit when topics vary.
7977, 7978 Current Problems in Psychological Counseling (3) Prereq.: consent of instructor. May be taken for a max. of 12 hrs. of credit when topics vary.
7979, 7980 Current Problems in Psychological Assessment (3) Prereq.: consent of instructor. May be taken for a max. of 12 hrs. of credit when topics vary.
7981, 7982 Current Problems in Psychological Testing (3) Prereq.: consent of instructor. May be taken for a max. of 12 hrs. of credit when topics vary.
7983 Current Problems in School Psychology (3) Prereq.: consent of instructor. May be taken for a max. of 12 hrs. of credit when topics vary.
7984 Current Problems in Psychological Counseling (3) Prereq.: consent of instructor. May be taken for a max. of 12 hrs. of credit when topics vary.
7985, 7986 Current Problems in Psychological Assessment (3) Prereq.: consent of instructor. May be taken for a max. of 12 hrs. of credit when topics vary.
7987, 7988 Current Problems in Psychological Testing (3) Prereq.: consent of instructor. May be taken for a max. of 12 hrs. of credit when topics vary.
7989 Current Problems in Psychological Counseling (3) Prereq.: consent of instructor. May be taken for a max. of 12 hrs. of credit when topics vary.
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.
7991, 7992 Current Problems in Psychological Counseling (3) Prereq.: consent of instructor. May be taken for a max. of 12 hrs. of credit when topics vary.
7993 Current Problems in Psychological Counseling (3) Prereq.: consent of instructor. May be taken for a max. of 12 hrs. of credit when topics vary.
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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.
7991, 7992 Current Problems in Psychological Counseling (3) Prereq.: consent of instructor. May be taken for a max. of 12 hrs. of credit when topics vary.
7993 Current Problems in Psychological Counseling (3) Prereq.: consent of instructor. May be taken for a max. of 12 hrs. of credit when topics vary.
7994, 7995 Current Problems in Psychological Counseling (3) Prereq.: consent of instructor. May be taken for a max. of 12 hrs. of credit when topics vary.
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7993 Current Problems in Psychological Counseling (3) Prereq.: consent of instructor. May be taken for a max. of 12 hrs. of credit when topics vary.
Religious Studies

Evaluation, compensation and dynamic topics include workforce diversity, drug abuse, whistle blowing, sexual discrimination, labor relations, and other relevant issues. Prerequisites: PADM 7412 (Canadian Business Law), Advanced topics in human resource management including human resources management and organizational structure, workforce diversity, labor relations, and ethical and legal issues. 7913 Advanced Topics in Human Resource Management in the Public and Non-Profit Sector (3) Prereq.: PADM 7812 (Management of Public and Non-Profit Organizations). Advanced topics in human resource management including human resource management and organizational structure, workforce diversity, labor relations, and other relevant issues, policy, issues, improving productivity, and other special topics of interest. Topics will vary from semester to semester.

7914 Introduction to Public Budgeting (3) Evaluation of influence and role of public policies on formulation and implementation of technology and innovation in the public budgeting study of budget techniques; importance of budgeting in policymaking; and understanding the budget process.

7915 Introduction in Public Sector (3) Survey of the history, beliefs, and practices of these three related religions.

2006 Honors: Jesus in History and Tradition (3) Prereq.: PADM 7412 (Management of Public and Non-Profit Organizations). Prerequisites: HEBR 1001, 2004, or consent of instructor. Advanced course in human resource management including human resource management and organizational structure, workforce diversity, labor relations, and other relevant issues. 2006 Honors: Jesus in History and Tradition (3) Prereq.: PADM 7412 (Management of Public and Non-Profit Organizations). Prerequisites: HEBR 1001, 2004, or consent of instructor. Advanced course in human resource management including human resource management and organizational structure, workforce diversity, labor relations, and other relevant issues, policy, issues, improving productivity, and other special topics of interest. Topics will vary from semester to semester.

7914 Introduction to Public Budgeting (3) Evaluation of influence and role of public policies on formulation and implementation of technology and innovation in the public budgeting study of budget techniques; importance of budgeting in policymaking; and understanding the budget process.

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2006 Honors: Jesus in History and Tradition (3) Prereq.: PADM 7412 (Management of Public and Non-Profit Organizations). Prerequisites: HEBR 1001, 2004, or consent of instructor. Advanced course in human resource management including human resource management and organizational structure, workforce diversity, labor relations, and other relevant issues, policy, issues, improving productivity, and other special topics of interest. Topics will vary from semester to semester.
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. Modern study of world religions; relationship between religion and Western culture.

7500 Seminar: Religious Studies (3) F,S
Method, theory, and approaches in the study of religion; emphasis on classical and recent works in the discipline. Historical, comparative, and critical evaluation of religious traditions.

7600 Seminar: Western Religions (3) F
May be taken for a max. of 6 hrs. of credit when topics vary. Modern study of Western religions; relationship between religion and Western culture.

7700 Seminar: Asian Religions (3) F
May be taken for a max. of 6 hrs. of credit when topics vary. Modern study of Asian religions; relationship between religion and Eastern culture.

7900 Independent Study (3) F,S
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
★ RNR 2001 or concurrent RNR 2039. The use of global information systems (GIS) and remote sensing technology in wildlife and fisheries management. Emphasis on the use of aerial photos, Global Positioning Systems (GPS), and Geographic Information Systems (GIS) in stand assessment of habitat restoration and mitigation; evaluation of habitat restoration efforts using the case study methods.

201 3 Problems in Natural Resource Management (1 ) F,S
Prereq.: RNR 2001. One week of field practice. Students are responsible for paying for travel expenses associated with this course. 8 week 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 Office of the University Registrar. Prerequisites related to the context, planning, design, and implementation of habitat restoration and mitigation; evaluation of habitat restoration efforts using the case study methods.

2002 Fisheries Literature and Communication (3) F ★ F,S
Prereq.: RNR 2031 and 2201. Three weeks of field practice. Students are responsible for paying for travel expenses associated with this course. 3 week course. The general University drop/add dates do not apply because this is a 3 week course. The instructor will provide students with the drop/add dates established by the Office of the University Registrar.

2011 Wildlife Management Techniques (4) F ★ F,S
Prereq.: RNR 2031 and 2201. Two weeks of field practice. Students are responsible for paying for travel expenses associated with this course. 2 week course. The general University drop/add dates do not apply because this is a 2 week course. The instructor will provide students with the drop/add dates established by the Office of the University Registrar. Prerequisites related to the context, planning, design, and implementation of habitat restoration and mitigation; evaluation of habitat restoration efforts using the case study methods.

2039 Introductions to Forestry (3) F ★ F,S,Su
Prereq.: RNR 2001. 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. Prerequisites related to the context, planning, design, and implementation of habitat restoration and mitigation; evaluation of habitat restoration efforts using the case study methods.

2201, and MATH 1431

2015 Problems in Natural Resource Management (1 ) F
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. Prerequisites related to the context, planning, design, and implementation of habitat restoration and mitigation; evaluation of habitat restoration efforts using the case study methods.

2031 Principles of Wildlife Management (3 ) F,S
Prereq.: RNR 2001 or concurrent RNR 2039. The use of global information systems (GIS) and remote sensing technology in wildlife and fisheries management. Emphasis on the use of aerial photos, Global Positioning Systems (GPS), and Geographic Information Systems (GIS) in stand assessment of habitat restoration and mitigation; evaluation of habitat restoration efforts using the case study methods.

2004 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. Exercises in designing and conducting timber and multiple purpose cruises; boundary location and other types of land surveying associated with forest resource management.

2034 Field Studies in Development (3 ) F,S
Prereq.: RNR 2001. One week of field practice. Students are responsible for paying for travel expenses associated with this course. 8 week 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 Office of the University Registrar. Prerequisites related to the context, planning, design, and implementation of habitat restoration and mitigation; evaluation of habitat restoration efforts using the case study methods.

2010 Conservation of Forest Resources (2) F,S
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. 14 day field experience in various silviculture practices. Students are responsible for paying for travel expenses associated with this course. This is a 14 day course. The general University drop/add dates do not apply because this is a 14 day course. The instructor will provide students with the drop/add dates established by the Office of the University Registrar. Prerequisites related to the context, planning, design, and implementation of habitat restoration and mitigation; evaluation of habitat restoration efforts using the case study methods.

2023 Principles of Wildlife Management (3 ) F,S
Prereq.: RNR 2001 or concurrent RNR 2039. The use of global information systems (GIS) and remote sensing technology in wildlife and fisheries management. Emphasis on the use of aerial photos, Global Positioning Systems (GPS), and Geographic Information Systems (GIS) in stand assessment of habitat restoration and mitigation; evaluation of habitat restoration efforts using the case study methods.

2030 Motion Imagery and GIS (3) F
Prereq.: RNR 2101. Basic knowledge of natural environments; human population; and natural resource management. Emphasis on the use of aerial photos, Global Positioning Systems (GPS), and Geographic Information Systems (GIS) in stand assessment of habitat restoration and mitigation; evaluation of habitat restoration efforts using the case study methods.
conservation, and use for forest products, wildlife habitats, and other amenities.

4035 Conservation 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. Biogeography, habitat management, decision criteria, and decision variables, management of an existing stand; forest taxation and valuation; harvesting standards; forest policy (4) S 2 hrs. lecture; 1 hr. 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 management.

4036 Aquaculture (4) F Prereq.: ECON 2030 or AGEC 2030 or equivalent. Students are responsible for paying for travel expenses associated with this course. The major global finfish, crustacean, mollusk, amphipath, and reptilian species. 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) S Prereq.: ECON 2030 or AGEC 2030 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 Conservation Biology (3) F Prereq.: RNR 1201 or consent of instructor. Conservation biology techniques of the major global finfish, crustacean, mollusk, amphipath, and reptilian species.

4041 Aquaculture Production Systems (3) S Prereq.: BIOL 1200. 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 management.

4104 Forest Products Manufacturing (4) F Prereq.: RNR 2043. Students are responsible for paying for travel expenses associated with this course. Critical review of selected literature; anatomical, physical, and chemical processes.

4104 Hydrology of Natural Landscapes (3) Prereq.: AGRO 2031 and MAT 1431 or consent of instructor. 2 hrs. lecture; 1 hr. lab. Students are responsible for paying for travel expenses associated with this course. Topics in wood science, including chemical processes.
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 (3) 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.
★ 1820 Russian Reading Knowledge (5) Specialized course intended to satisfy departmental foreign language reading requirement for graduate students, but carrying no graduate credit. Graduate students may enroll on pass/fail basis only. Does not count toward satisfying foreign language requirement for undergraduates. Basic communication patterns; practical everyday vocabulary with exercises in listening, speaking, reading, and writing Russian.

★ 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 listening, speaking, reading, and writing Russian.

2075 Introduction to Russian Culture and Civilization (3) Taught in English; knowledge of Russian not required. Also offered as RUSS 4075. Culture, 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 2002 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; participation in discussion 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; participation in discussion and writing.

3401 The Fairy Tale (3) Taught in English; knowledge of Russian not required. Structure and substance of the traditional fairy-tale examples; 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, and Chekhov.

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.


4101 Topics in Russian Literature in Translation (3) May not be taken for graduate credit. Selected topics or themes. May be registered for a max. of 6 sem. hrs. of credit when topics vary.

4600 Introduction to Russian Linguistics (3) Also offered as LING 4600. Theoretical and practical aspects of 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 with departmental approval. May be repeated up to 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 ged, and social work. Socio-cultural, social, and cultural determinants of human behavior; major biosocial, developmental, and social work practice systems in which human beings develop and live; focus on research related to social interaction.

2001 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, 7005, and 7007. Introduction to social work theory, principles, and intervention skills common to social work practice with individuals and families; psychosocial intervention.

7006 Social Work Practice II (3) Prereq.: SW 7005. Majors only and credit for or concurrent registration in SW 7002, 7008, 7009, and 7100. 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, 7002, 7004, 7005, and 7007. Pass-fail grading. $1000 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. $1000 internship fee. Includes observation and participation in SW 7007. Application of foundation knowledge, skills, values, and ethics 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.

7100 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 in the development of 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 preparing data, descriptive statistical techniques, 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 7205 and at least one of EXST 7005, 7013, or SW 7435. No more than 6 hrs. may be taken in one semester. Hands-on supervised research experience; demonstration of competencies, case management, and research for a social work doctoral student.

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, methodology, and results.

7305 Grief & Bereavement (3) Contemporary theories of grief and loss; cultural, ethnic, and religious differences in beliefs and practices surrounding death and bereavement; social issues related to social work practice with end-of-life issues.

7307 Direct Practice with Children and Adolescents (3) Prereq.: completion of Basic Methods course. Maladaptive patterns of behavior in children and adolescents; intervention strategies with children, parents, families, and groups.

7308 Direct Practice Theory and Policy (3) Prereq.: SW 7006. Dynamics of social work with groups; members’ behavior and corresponding worker roles and responsibilities.

7309 Advanced Methods of Group Treatment (3) Prereq.: consent of instructor. Diagnostic and treatment procedures used in group practice.

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 Marriage 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 (LGBT) Clients (3) Prereq.: SW 7006 and SW 7005. Development of students’ professional competence with lesbian, gay, bisexual, and transgender (LGBT) people. Exploration ofdoing of workplace 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 Sociology of Health (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) Prereq.: Principles of sociology. Observation of family patterns in terms of culture, social institutions, and processes.

7415 Child/Family II (3) Prereq.: completion of SW 7412 and/or consent of instructor. Sociological analysis of noninstitutionalized families. 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 research and prepa ration of a faculty position paper.

7503 Advanced Field Internship II (3) Prereq.: majors only and credit for or concurrent registration in SW 7501, 7502, 7503, 7504, 7505. Pass-fail grading. 100 internship fee.

7504 Advanced Social Policy (3) Prereq.: majors only and credit for or concurrent registration in SW 7501, 7502, 7503, 7504, and 7506. Dimensions and patterns of social policy; evolution of social policy decisions 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 Social Work Practice (3) Prereq.: majors only and credit for or concurrent registration in SW 7501, 7502, 7503, 7504, and 7505. Combined aspects of social work practice; indirect practice skills associated with effective social work practice in multiple service settings.

7710 Task-Oriented Group Interaction in Social Work (3) Interaction of small groups in social work practice; emphasis on group structure; group process, and group tasks; evaluation of groups.

7720 Societal Problems and Social Policy (3) Topics related to addictive disorders in contemporary society; their relevance to social work practice.

7725 Substance Abuse: Application and Analysis (3) Co-requisite: Must take 7720. Introduction and analysis of human societies; major patterns of social change.

7760 Field Education Preparatory Course (3) Co-requisites: Must take 7720; 7725. 4 hrs. lect. 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; correlation and linear regression models and their relevance to social work practice; policy and program development, and research.

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 Development of 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. Introduction to social work and social welfare theory, practice, and policy.

7805 Independent Reading and Research in Social Work Practice (3) majors only and credit for or concurrent registration in SW 7501, 7502, 7503, 7504, and 7505. Combined aspects of social work practice; indirect practice skills associated with effective social work practice in multiple service settings.

7902 Field Education Administration I (3) Prereq.: majors only and/or 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.

8000 Thesis Research (1-12 per sem.) Prereq.: completion of all foundation courses and consent of instructor. 'STU' grading.

9000 Dissertation Research (1-12 per sem.) Prereq.: successful completion of the General Examination. 'STU' grading.

SOCIOMETRY

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.

1002 Social Life (3) Prereq.: 1001. Open only to international students. An orientation course on people, culture, social institutions, and processes.

1841 Introduction to Social Theology, and Society (3) Sociological analysis of knowledge generation, institutions of science and technology, and public understanding of science.

1701 Population and Agency Contexts for Direct Social Work Practice (3) Prereq.: completion of all foundation courses and consent of instructor. Interrelationships between population and society.

★ 2001 Introductory Sociology (3) Major subject areas and principles of social sciences.

★ 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 Introductory Sociology (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; correlation and linear regression models and their relevance to social work practice; policy and program development, and research.

2201 Research Practicum in Rural Sociology (3) Prereq.: SOCL 2211, 2351, and 3011. May be taken for a max. of 3 hrs. credit. Faculty supervised field research experience in rural sociology, including its forms, myths, and facts regarding victi mes and offenders, and the causes, consequences, and control of violence.

2390 Sociology Internship (3) Prereq.: SOCL 2001 or PSYC 2000 or equivalent. Human behavior as social interaction.

2395 Collective Behavior (3) Prereq.: SOCL 2001 or equivalent. Sociological analysis of the interactional and generalized group behaviors; crowds, publics, panics, fads, hostile outbursts, and social movements.

3900 Sociology Internship (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. credit. Faculty supervised field study/research with an agency; 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 required 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 experience in sociology, including its forms, myths, and facts regarding victims and offenders, and the causes, consequences, and control of violence.

3911 Research Practicum in Rural Sociology (3) Prereq.: SOCL 2211, 2351, and 3011. May be taken for a max. of 3 hrs. credit. Faculty supervised field research experience in rural sociology, including its forms, myths, and facts regarding victims and offenders, and the causes, consequences, and control of violence.

4011 Social Change (3) Prereq.: SOCL 2001 or equivalent; 2201 or equivalent; and 2411 or equivalent. The use of sociological knowledge and research techniques to understand the problems individuals and groups face in modern advanced industrial societies and to help ameliorate the challenges 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 3 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.

4121 Interdisciplinary Research Methods (Prereq.: SOCL 2211 or equivalent. Also offered as PSYC 4017). Techniques and procedures in research, alternative research designs, measurement, sampling procedures, observation, data collection procedures, coding, data processing, and analysis principles and 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, groups, organization, social 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 2551 or equivalent. Social organization in rural societies: groups, organizations, and communities.

4401 The Family (3) Prereq.: SOCL 2001 or equivalent. The family as a social institution.

4402 Modernity and Postmodernization Within Marital and Family Relationships (3) See CMST 4118.

4411 Sociology of Work (3) Prereq.: SOCL 2001 or equivalent. Work 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 patterns; 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, and criminal justice system.

4462 Sociology of Youth & Crime (Prereq.: SOCL 2001 or equivalent. The sociological study of adolescent deviance and crime; 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 drug use; introduces 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 Economic and Political Sociology (3) Prereq.: SOCL 2001 or equivalent. Scientific institutions and development; nature of technological decision making; reciprocal effects of scientific and technological change.

4511 Minority Peoples in the United States (3) Prereq.: SOCL 2001 or equivalent. Analysis of past and present contributions of minority groups to the development of the United States; emphasis on minorities in the U.S.

4521 Sociology of Gender (3) Prereq.: SOCL 2001 or equivalent. Gender differences in families, education, the workplace, and the community; including 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.

4515 The Family and Family Impacts (3) Prereq.: SOCL 2001 or equivalent. Social, demographic, psychological, cultural, and health factors related to the aging process in contemporary American families.

4551 Sociology of Development (3) Prereq.: SOCL 2001 or equivalent. Central concepts, perspectives, and research themes in sociological development.

4601 Personality and Social Structure (3) Prereq.: SOCL 3601 or PSYC 3140 or equivalent. Interaction of social structure, such as social 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 Sociology (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, ecology, and organization in adaptation of a population to its environment.

7211 Seminar: Classical Sociological Theory (3) Prereq.: consent of instructor. Historical survey of sociology with special emphasis on European (Marx, Weber, and Durkheim) and early American (Mead and Park) sociologists.

7311 Seminar: Contemporary Sociological Theory (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 7063. Survey of advanced methodological techniques in 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 7063 or equivalent. May be taken for a max. of 12 sem. hrs. of credit when topics vary. Also offered as HONORS: Intermediate Spanish (3) F,S,Su.

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 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.: consent of instructor. May be taken for a max. of 12 sem. hrs. credit if topics vary. Specialized areas in population and ecology.

7903 Proseminar in Sociology (1) Required twice of both major and minor candidates. Pass-fail grading. Complementary research and critical issues in sociology.

8000 Thesis Research (1-12 per sem.) 5’/7’/grading. Requires faculty supervision. Student must be engaged in design and completion of a thesis project. May be repeated for a total of 36 sem. hrs. credit if topics vary. May be taken for a max. of 6 sem. hrs. credit when topics vary. Development of a thesis project must be continuous and culminate in a written thesis or dissertation, with oral defense. Students must register in SPAN 2155, SPAN 2156, or CON 2156. Independent study or supervised study.

Rationale: To provide students interested in undertaking advanced research to pursue research that will result in the preparation of theses or major research papers. The degree of student autonomy and faculty supervision will vary, depending on the nature and complexity of the research project/thesis and the student's prior experience and level of expertise.

8300 Independent Reading and Research: Survey of the STS (1) Prereq.: credit in 2155 or equivalent and consent of instructor. May be taken for a max. of 6 sem. hrs. credit if topics vary. Development of a thesis project must be continuous and culminate in a written thesis or dissertation, with oral defense. Students must register in SPAN 2155, SPAN 2156, or CON 2156. Independent study or supervised study.

Spanish language courses are marked with stars (★).
416 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 historic avant-garde to 1960.

417 Latin American Literature: 1960-1980 (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.

500 History of the Spanish Language (3) V Development of Spanish from its beginnings to the present.

502 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.

503 Instructional Strategies for the Second Language (5) Prereq.: EDCI 3002, SPAN 4002, and concurrent enrollment in EDCI 4003. 3 hrs. lab/field experiences in multicultural settings. Teacher candidates will study teaching methods that incorporate different classroom instructional structures, including teacher-to-whole class, task-based group activities, and student-centered learning. They will also design and conduct Spanish language lessons using learner-centered activity strategies.

504 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.

505 Structure of the Spanish Language (3) Prereq.: SPAN 3010 or equivalent, Spanish morphology and syntax; structuralist, sociolinguistic, and generative-transactional analyses and applications.

507 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 master's degree and 9 hrs. of credit for the doctoral. Reading in Spanish or Spanish-American linguistics.

508 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. 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.

509 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. Enrolled in Spanish and Latin America and their interrelations with literature and culture.

400 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. 2001 Cinema in Hispanic Literature (3) Specialized course intended to satisfy departmental foreign language reading requirement for graduate students.

440 Topics in Hispanic Cultural Studies (3) V 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.


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. 7946 Topics in Spanish American Literature: Beginnings to 18th Century (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) Y 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 6 sem. hrs. with consent of department. Socio-linguistic 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 Language and Culture (3) V Spanish in contact with English language use, variation, and change; social and individual bilingualism.

7995 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 culture, politics, and society as it peels in contemporary manifestations. 7992 Theatre in the Modern Hispanic World (3) Study of Spanish drama and its literary manifestations. 7996 Literature and Theatre in the Hispanic World (3) Prereq.: SPAN 3071 and/or 3072. Study of religious and spiritual systems in literature

8000 Literature of Contemporary Spain (3 hrs. lab) $7’U” grading.

SWAHIIL SWAHI

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.

*1003 Elementary Swahili Language and Culture II (4) Prereq.: SWAH 1001. Also offered as AAAS 1002. Increased emphasis on speaking, reading, writing, and understanding the role of Swahili's role in Eastern African socio-cultural development.


*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 traditional forms of expression, such as Swahili poetry and traditional literary texts.

SYSTEMS SCIENCE • SYSC

7900 Systems Science Design Project (1-9) Prereq.: minimum of 12 sem. hrs. earned toward the systems science major. Individual development, implementation, and documentation of a project applying systems techniques, possibly involving computing, to a problem in composition, and physical characterization.

8000 Systems Science Thesis Research (1-12 per sem.) $7’U” grading.

THEATRE • THTR

General education courses are marked with stars (★)


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.

1024 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.

1127 Beginning Modern Dance (1) 3 hrs. lab. May be taken for a max. of 2 hrs. of credit.

1129 Beginning Ballet (1) 3 hrs. lab. May be taken for a max. of 2 hrs. of credit.

1133 Beginning Jazz 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.

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 2018.

2020 Introduction to Stage Management (1) Prereq.: THTR 1000. 2 hrs. lab. Introduction to the duties and responsibilities of the theatrical stage manager; emphasis on the stage manager's role as the theatre 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) Introduction to, and craft; theatrical hair and makeup. 2024 Introduction to Theatre Technique (3) Introduction to all areas of theatre technology and how they affect production. Areas to be covered include lighting, production/stage management, scenery, costuming, stage properties, lighting, and sound.

2025 Fundamentals of Acting (3) Prereq.: THTR 1025; and concurrent registration in THTR 2026. Principles
Theatre

involved in a workable theory of acting and their application
due to higher education.

2026 Theatre Management (3) Prereq.: THTR 2022.

2027 Stage Voice: Basic Techniques (3) Open to Theatre

2028 Introduction to Dramatic Literature (3) Prereq.: THTR 2028, with special emphasis for qualified

3020 American Musical Theatre (3) Also offered as MUS 3020.

4025 Advanced Acting (3) Prereq.: THTR 2030.

4026 Advanced Acting (3) Prereq.: THTR 2027.

4029 Stage Movement II (3) Prereq.: THTR 1029.

4101 History of Theatre (3) Prereq.: THTR 2025.

4123 Costume Design (3) Prereq.: THTR 3126.

4126 Advanced Costume Design (3) Prereq.: THTR 3126

4127 Styles of Acting (3) Prereq.: THTR 4023

4301 Seminar: Contemporary Theatre and Drama (3) Su

4723, 4724 Voice for the Actor (I, II, III, IV, V, 3,3,2)

6000 or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Sound design

including the income gap, the economic impact of the industry,

including income gap, the economic impact of the industry,

including the income gap, the economic impact of the industry,
7234 Stage Movement IV (3) Prereq.: admission to MFA program or consent of instructor. 3 hrs. lecture; 1 hr. lab. Emphasis on selection, modification, and preparation of fabrics for historical costumes. (IV) Emphasis on workshop level. May be taken for a max. of 6 hrs. credit when topics vary. 

7630, 7321 Directing Seminar IA, IB, (3,3) Prereq.: THTR 7212. Preparation and presentation of scene design projects; emphasis on script analysis, developing the ground plan and elevation, and the concept for stage movement. (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. 


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 program or consent of instructor. Preparation and presentation of scene design projects; emphasis on script analysis, developing the ground plan and elevation, and the concept for stage movement. May be taken for a max. of 6 hrs. credit when topics vary. 

7422, 7423 Advanced Scene Design IIA, IIB, (4,4) Prereq.: THTR 7421. 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 I, IA, (3,3) Prereq.: THTR 7121. Rendering techniques. Introduction to basic rendering techniques for scenic, costume, and lighting designers; emphasis on basic design elements and use of various media. (IIB) Emphasis on methods of presentation. 

7441 Computer Techniques for the Theatre (3) Prereq.: admission to MFA program in Theatre 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) Prereq.: admission to MFA program or consent of instructor. 3 hrs. lecture; 2 hrs. lab. (I) Advanced planning and construction of costumes for the theatre; emphasis on historical construction, cutting, and tailoring. (II) Emphasis on selection, modification, and preparation of fabrics for stage costume; emphasis on costume accessories, including millinery, footwear, armor, and jewelry. 

7601 Scene Shop Technologies and Theatre Safety I: Woodworking (3) Prereq.: admission to traditional and modern materials (primarily wood and plastic products); construction tools; techniques for executing theatrical constructs; shop organization, and safety for production. 

7602 Scene Shop Technologies and Theatre Safety II: Metalworking (3) Prereq.: admission to traditional and modern materials (primarily metal products); construction tools; techniques for executing theatrical constructs; shop organization, and safety for production. 

7610 Structural Design for the Stage (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 design and production process. Investigation of the labor and material cost budgeting for each of the production areas. 

7616 Entertainment Rigging (3) Introduction to traditional rigging and techniques for the theatre, arena and outdoor venues. 

7620 Stage Machinery (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 Sceney 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 Theatrical Stage Theory Seminar I, IA, (3,3) Prereq.: admission to MFA design technology program. (IA) Advanced techniques used on stage and in the scene shop. (IIB) Emphasis on scenic techniques and scenic design. 

7625, 7626 Theatre Technology Seminar IIA, IIB, (3,3) Prereq.: admission to MFA design technology program. (IIB) Emphasis on scenic design and theatrical constituting. (IIIA) Emphasis on roles and responsibilities of the technical director and on preparation to enter the professional world. 

7561 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 I (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. (II) 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 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 scenery. 

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 program or consent of instructor. 1 hr. lecture; 4 hrs. lab. Advanced studies in woodworking techniques 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. Advanced studies in woodworking techniques including materials, construction techniques, and styles. Care and repair of furniture is included in the curriculum. 

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 MAP/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 found 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 Anta-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 of the second half 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. 

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. 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. 

7925 Seminar: Evolution of Dramatic Theory (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. 

7926 Seminar in African Drama and Theatre (3) May be taken for a max. of 6 credits hours when topics vary. 

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.) 570U grading. 

9000 Dissertation Research (1-12 per sem.) 570U 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. Prereq.: Consent 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 Pursuit of Learning, Nature, 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/toxic 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- or 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 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 soft tissue injuries; emphasis on pathophysiology, diagnosti, and management options.

7205 Advanced Veterinary Clinical Neurology (2) V Prereq.: DVM or equivalent degree or consent of instructor. Diseases of the central nervous system; emphasis on pathophysiology, diagnostics, neuoroury, 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 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) 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’77’ 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’77’ grading.

VETERINARY SCIENCE • VETS

2000 Anatomy and Physiology of Farm Animals (3) F Anatomy and physiology of farm animals; important spe- cies differences.

2020 Herd Health and Disease Management of Domestic Farm Animals (3) F Herd health program of preventive medicine for farm livestock; disease processes, epidemiology, and rational approaches to therapeutic principles and control of diseases.

2050 Herd Health and Disease Management of Livestock (1) S’73’ F. Dehoming, 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) May be taken for a max. of 6 sem. hrs. of credit.

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/toxic animal medicine.
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

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

3838 West Lakeshore Drive
TELEPHONE • 225-578-3811 or 1-800-452-7928
FAX • 225-578-0530
WEB SITE • www.lsfoundation.org
E-MAIL • donorservices@lsfoundation.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 was established as a subsidiary 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.lsutigertour.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.
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
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 years in one of the 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.

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 • A 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: SOCE 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.
Index

♦ A

Abbreviation of course designations, 234
Academic
Affairs, 10, 210, 333
appeals (student), procedure, 73
bankruptcy, 41, 72
calendar, 4
Center for Athletes, 14
Common Market, 41, 198
credit, 68
degrees,
graduate, 13, 188
undergraduate, 13, 15
load, definition of, 337
organization, 10, 333
policy, Board of Regent’s, 14
programs, 13, 15
Programs Abroad, 115, 199, 223
requirements for admission, 58, 190
requirement, for degree, 65, 199, 200
year, definition of, 337
Academic Center for Student Athletes, 14
Academic Common Market, 41, 198
Academic Programs Abroad, Office of, 223
Academic Success, Center for, 29
Accelerated master's degree program, 200
Accounting, Department of, 145
courses, 237
curriculum, 20, 145
Accreditation statement, 1, 7, 13
ACT (American College Testing Program), 38
Actuarial science, concentration, 20, 138
Adding courses, 67, 198
Administration, LSU, 10, 333
Admission, 37
academic requirements for, 38, 190
advanced-standing, 41, 69
application for, 37, 191
of auditors, 62, 69, 193, 198
to Center for Freshman Year, 79
to College of Agriculture, 85
to College of Art and Design, 103
to College of Arts and Sciences, 111
to College of Basic Sciences, 131
to E. J. Ourso College of Business, 141
to College of Education, 153, 155
to College of Engineering, 161
to College of Music and Dramatic Arts, 181
to School of the Coast and Environment, 149
to correspondence study, 41, 197
cross-enrollment program, 41
direct admission, 39
dual-enrollment program, 39
early enrollment, requirements for, 39
educational requirements for, 38, 190
of former students, 39, 192
freshman orientation, 39
freshmen standards, 38
to Center for Advising and Counseling, 79
to Graduate School, 190
to Honors College, 173
to high school students, 38
to human resource education programs, 94
immunization policy, 37
of international students, 40, 191
Louisiana Early Start Program, 39
of Louisiana residents, 37, 193
to Mass Communication, Manship School of, 177
nondegree, 192
not regularly admitted, 80
of out-of-state students, 37, 193
policy, 38
pre-degree students, 80
to professional programs, 203, 204
to reentering students, 39
residency status, 37, 193
selective service, certification of, 37
to senior college (see also, individual colleges), 39
Southern University cooperative, 14, 80, 231
standards, 38
student athletes, 39
to teacher education programs, 94, 115, 133, 155
test scores, 38
transfers from within the LSU System, 39
of undergraduate transfer students, 39
to Veterinary Medicine, School of, 204
of visiting student, 41
Adult, extension, and international education, concentration, 16, 95
Advanced degrees (Graduate School), requirements for, 199
Advanced Microstructures and Devices, Johnston Center for (CAMD), 8, 209
Advanced Placement program, 41
Advanced-standing (also Advanced-placement), definition of, 337
examination, 41, 69
fee for, 62, 69
program, 41, 69
Advertising, concentration, 23, 179
courses, 302
Advisory committee, graduate, 201
Aerospace engineering, minor in, 24, 163
Aerospace Studies, Department of, 116
courses, 238
minor in, 24, 113
Affiliate member, graduate faculty, 335
Africa, concentration, 19, 124
African American Cultural Center, 29
African and African American studies, concentration, 19, 125
courses, 238
minor in, 24, 113
Aging, courses, 299
Agribusiness finance, concentration, 15, 88
Agribusiness management, concentration, 15, 88
Agricultural business, curriculum, 15, 88
minor in, 24, 86
Agricultural Center, LSU, 8, 83, 221
Agricultural colleges, consortium, 85
Agricultural Economics and Agribusiness, Department of, 88
courses, 238
curriculum, 15, 88
Agricultural education, curriculum, 16, 95
Agricultural pest management, concentration, 16, 89, 90
minor in, 24, 86
Agriculture, College of, 83, 214
admission to, 85
curricula, 15, 84, 88
degree requirements, 86
minor field requirements, 86
readmission, 86
residential college, 33
scholastic requirements, 85
scholarships, 48
undergraduate degrees, 15, 84
Agriculture for students in Mass Communications, minor in, 24, 86
Agriculture, general courses, 239
Agronomy courses, 239
minor in, 24, 86
Air Force Reserve Officers Training Corps, 230
Alex Box Stadium, 35
Allied health programs, 79, 80
Alumni Association, 330
Alumni professors, 335
Alumni Relations, 330
Alumni scholarships, 46
American Renaissance Studies, Voegelin Institute, 216
Animal, dairy, and poultry sciences, curriculum, 15, 92
minor in, 24, 86
Animal science, concentration (see Animal, Dairy, and Poultry Sciences), 15, 91
Animal Sciences, School of, 91 courses, 240
Anthropology, 121 courses, 240
curriculum, 18, 122
minor in, 24, 122
Apartments, University, 33
Apparel design, concentration, 16, 93
courses, 286
Appeal, of grades, 72
Application, for admission, 37, 191
for degree, 66, 199, 202
for doctoral degree, 202
fee, 37, 41, 47, 61, 191, 193
for financial aid, 46
for housing, 32
for international students, 41, 191
for master's degree, 199
procedures (graduate), 191, 199, 202
Applied/discrete mathematics, concentration, 20, 139
Applied Math Clinic, 10
Applied music, courses, 308
Applied sociology concentration, 19, 128
Applied statistics, minor in, 24, 86
Approved elective, definition of, 337
Aquaculture, minor in, 24, 86
Arabic, courses, 241
Architectural history, minor in, 24, 104
Architecture, School of, 105 admission requirements, 105
courses, 241
curriculum, 17, 105
Arctic Research Consortium of the United States (ARCSS), 221
Areas of concentration, 15, 66, 337
actuarial science, 20, 138
adult, extension, and international education, 16, 95
advertising, 23, 179
Africa, 19, 124
African and African American Studies, 19, 125
agribusiness finance, 15, 88
agribusiness management, 15, 88
agricultural pest management, 16, 89, 91
animal science, 15, 91
applied design, 16, 93
applied/discrete mathematics, 20, 139
applied sociology, 19, 128
art, 21, 157
art history (see Liberal Arts), 19, 125
arts administration, 23, 186
Asia, 19, 124
astronomy, 20, 139
athletic training, 22, 158
biological chemistry, 20, 136
biomolecular, 22, 166
brass, 23, 183
career development, 16, 95
ceramics, 17, 107
chemical physics, 19, 136
chemistry, 20, 136
chemistry and a second discipline, 20, 136
child & family studies, 16, 92
colonialism & diasporas, 19, 124
composition, 23, 183
computer science (see Mathematics), 20, 139
crime analysis, 101
crime prevention, 23, 183
crime scene investigation, 19, 127
criminal justice (see Sociology), 19, 128
crop management, 16, 98
dairy foods technology, 15, 91
dairy production, 15, 91
design/technology, 23, 186
dietetics, 16, 93
digital art, 17, 107
disaster science and management, 19, 125
distributed systems & networking, 20, 137
drugs and the legal system, 19, 127
early childhood administration and leadership, 16, 92
ecological restoration, 17, 100
ecological economics, 18, 21, 117, 145, 146
economics, 18, 21, 117, 145, 146
entrepreneurship, 21, 147
equipment and development, 19, 124
environmental, 22, 166
environmental analysis & risk management, 17, 98
environmental chemistry, 20, 136
environmental geology, 20, 138
environmental horticulture, 16, 98
Europe, 19, 124
fisheries and aquaculture, 17, 101
fitness studies, 22, 159
food careers, 15, 90
food chemistry and analysis, 15, 90
food processing and technology, 15, 90
food safety/applied microbiology, 15, 90
forest resources management, 17, 100
four-year undergraduate teacher certification, 21, 157
French and Francophone cultural studies, 18, 120
French and Francophone political studies, 18, 120
geology, 20, 138
geophysics, 20, 138
global diplomacy, 19, 124
global studies, 19, 125
graphic design, 17, 107
harp, 23, 183
health and physical education teacher certification, 22, 159
health sciences, 18, 120
Hegira French and Francophone studies, 21, 157
horticultural science, 16, 98
human movement science, 22, 159
human resource & leadership development, 16, 95
human resource management, 21, 147
instrumental, 23, 185
interdisciplinary studies, 18, 120
international business, 15, 18, 88, 120
international studies, 18, 120
journalism, 23, 179
landscape management, 16, 98
Latin America, 19, 124
leadership & society, 18, 120
literary studies, 18, 120
literature, 18, 118
literature, history, and theory, 23, 186
management, 21, 146
marine biology, 19, 135
materials, 20, 22, 156, 166
mathematical statistics, 20, 139
mathematics, 20, 139
medical physics, 20, 139
merchandising, 16, 93
Middle East, 19, 124
natural resource conservation, 17, 101
nautical science/premedical, 16, 93
organ, 23, 183
painting and drawing, 17, 107
percussion, 23, 183
performance, 23, 186
photography, 17, 107
physician's assistant, 81
physics, 20, 139
physics and a second discipline, 20, 139
piano pedagogy, 23, 183
piano performance, 23, 184
policy analysis, 17, 98
political communication, 23, 179
polymers, 20, 136
poultry science, 15, 92
premedical, 15, 90
pre-professional chemistry, 20, 136
pre-veterinary medicine, 15, 17, 92, 101
printmaking, 17, 107
public relations, 23, 179
religious studies, 19, 126
resource conservation, 17, 98
rural development, 15, 88
rural sociology, 19, 128
Russia and Central Asia, 19, 124
science and technology, 15, 92
sculpture, 17, 107
second discipline (see Chemistry, 19, 136; Computer Science, 20, 137; Physics, 20, 139)
secondary education, 18, 19, 20, 118, 119, 120, 122, 135, 136, 139
software engineering, 20, 137
soil science, 16, 98
sport commerce, 22, 160
sport leadership, 22, 160
sports studies, 22, 159
strings, 23, 184
studies in organizations, 18, 120
textile science, 16, 93
theatre studies, 23, 186
turfgrass management, 16, 98
urban entomology, 17, 89
vocal (see Music Education), 23, 185
voice, 23, 184
wetland science, 17, 101
wildlife ecology, 17, 101
wildlife law enforcement, 17, 101
woodwind, 23, 183
writing and culture, 18, 118
writing and performing arts, 18, 120
Army Reserve Officers Training Corps, 230
Art and Design, College of, 17, 103, 215
admission requirements, 103
curriculum, 17, 104, 105
degree requirements, 103
minor field requirements, 104
scholarships, 49
undergraduate degrees, 17, 104
Art, concentration, 21, 157
Art, LSU Museum of, 10, 212
Art gallery (Union), 31
Art, School of, 106
courses, 242
curriculum, 106
minors, 107
Art history,
concentration, 19, 125
courses, 244
minor in, 24, 104, 113
Arthropod Museum, Louisiana State, 214
Artist and Lecture Series, 14
Arts administration, concentration, 23, 186
Arts and Sciences, College of, 18, 111, 216
admission to, 111
curricula, 18, 112, 116
degree requirements, 111
minor field requirements, 113
scholarships, 49
undergraduate degrees, 18, 112
Asia, concentration, 19, 123
Asian studies, minor in, 24, 113
Assessment and Evaluation, Office of, 213
Assessment of Academic Progress (CATS), 66
Assistantships, graduate, 194
Associate member, graduate faculty, 335
Astronomy, concentration, 20, 139
courses, 243
Athletics department, 11, 36
Vice Chancellor & Director, 11
facilities, 35
Athletic training, concentration, 22, 158
Attendance (of classes) regulations, 67
Audit, definition of, 337
Auditing courses, 69, 198
fee for, 62, 193
Auditions, School of Music, 182
Audubon Center for Research of Endangered Species, 221
Automobile registration, fee, 62
AVATAR digital media (Arts), minor in, 25, 107
AVATAR digital media (Tech), minor in, 25, 163
Average, cumulative, definition of, 72, 337
grade-point definition of, 72, 197, 337
rounding of, 70, 197
Awards, academic, 67
Awards (monetary), listing of, 46
♦ B
Baccalaureate degree, requirements for, 65
Bankruptcy, academic, 41, 72
Basic Sciences, College of, 19, 131, 217
admission to, 131
college probation, 133
courses, 245
curricula, 19, 132, 134
degree requirements, 131
minor field requirements, 133
pass-fail option, 133
residential college, 33
scholarships, 50
undergraduate degrees, 19, 132
Baton Rouge Community College Cross Enrollment, 41
Bengal Legacy, 47
Bernie Moore Stadium, 35
Beta Gamma Sigma, 143
Biochemistry, courses (see Biological Sciences), 246
curriculum, 19, 134
Biogeography, courses, 280
Biological and Agricultural Engineering, Department of, 88, 164
courses (see Biological Engineering), 245
curriculum (see Biological Engineering), 22, 165
Biological chemistry, concentration, 20, 136
Biological engineering, minor in, 24, 163
Biological sciences, Department of, 134
courses, 246
curriculum, 19, 134
minor in, 24, 134
Biology, courses (see Biological Sciences), 246
Biomedical Research Center, Pennington, 222
BioModular, Multi-Scale Systems, Center for, 209
Biomolecular, concentration, 22, 166
Board of Regents, 14
Board of Supervisors, 8, 333
Boyd Professors, 335
Brass/woodwind/percussion, concentration, 23, 183
Bryophyte Herbarium, 217
Business, E. J. Ourso College of, 20, 141, 218
admission to, 141
courses, 248
curricula, 20, 142, 144
degree requirements, 142
graduation requirements, 143
maintenance requirements, 142
mandatory advising, 142
minor field requirements, 144
readmission, requirements, 142
residential college, 33
scholarships, 51
undergraduate degrees, 20, 142
Business administration, general, curriculum, 144
minor in, 24, 86, 104, 144, 179
Business and Technology Center, 9, 218
Business education, curriculum, 16, 96
Business law, courses, 249
♦ C
CADGIS Lab, 215
CATS, 65
Cain Center for Scientific, Technological, Engineering & Mathematical Literacy, 211
Calendar, academic, 4
CAMD, 8, 209
Campus Life, 29
Career Services, 29
Cartographic Information Center, LSU, 8
Cartography, courses, 279
Catalog, issue to use (see Undergraduate Degree Requirements), 65
Centennial Award, LSU, 47
Center for Academic Success, 29
Center for Advising & Counseling, 29
Center for BioModular, Multi-Scale Systems, 209
Center for Community Engagement, Learning & Leadership, 210
Center for Computation & Technology, 207
Center for Energy Studies, 207
Center for French & Francophone Studies, 207
Center for Freshman Year, 79, 337
Center for Geoinformatics, 2
Center for Geothermal Energy Research, 220
Center for Geotechnical & Marine Studies, 209
Center for Internal Auditing, LSU, 8
Center for Media & Public Affairs, 9, 221
Center for Rotating Machinery, 220
Ceramics, concentration, 17, 107
courses, 242
minor in, 24, 107
Certification, teacher, 95, 115, 133, 155
Certified Public Manager Program, 94
Chancellor, Office of, 10, 333
Chancellor's alumni scholarships, 46
Chancellor's honor roll, 67
Chancellor's leadership scholarships, 47
Chancellor's Student Aide Program, 47
Chemical Engineering, Gordon A. and Mary Cain Department of, 165
courses, 249
curriculum, 22, 165
Chemical physics, concentration, 19, 136
Chemistry, concentration, 19, 136
Chemistry and a second discipline, concentration, 19, 136
Chemistry, Department of, 135
courses, 250
curriculum, 19, 135
minor in, 24, 135
Child & Family Studies, curriculum, 16, 92
concentration, 16, 92
courses, 285
Chinese, courses, 251
minor in, 24, 118
Chinese culture and commerce, minor in, 24, 114
Civil and Environmental Engineering, Department of, 166
courses, 252, 272
curricula, 22, 167
Civil War Center, U.S., 212
Class attendance regulations, 67
Classical civilization, minor in, 24, 118
Classical studies, courses, 254
Classification, as full-time student, 68, 198
as Louisiana resident, 37, 193
as nonresident, 37, 193
as part-time student, 68
by year, 68
CLEP, 42, 44
Climate Center, Southern Regional, 216
Climatology, courses, 279
Climatology, Office of, 216
Coaching (see Kinesiology), 158
Coast and Environment, School of, 149, 219
admission to, 149
curricula, 21, 150, 151
degree requirements, 149
minor field requirements, 149
undergraduate degrees, 21, 150
Coastal Ecology Research Focus, 219
Coastal environmental science, curriculum, 21, 150
Coastal Fisheries Research Focus, 219
Coastal geography, courses, 279
Coastal Roots Program, 9
Coastal Studies Institute, 220
Code of Student Conduct, 74
College board exams, 42
College honors, requirements for, 67, 173
College scholastic requirements, 72
Colleges/schools, 1
Agriculture, 15, 83, 214
Art and Design, 17, 103, 215
Arts and Sciences, 18, 111, 216
Basic Sciences, 19, 131, 217
Business, E. J. Ourso, 20, 141, 218
Coast and Environment, School of, 149
Continuing Education, 8, 12, 14, 225
Education, 21, 153
Engineering, 22, 161, 220
Extended Learning, 225
Graduate School, 187
Honors College, 173
Library and Information Sciences, 203
Mass Communication, Manship School of, 22, 177, 221
Music and Dramatic Arts, 10, 23, 181
Social Work, School of, 203
University College, 79
Veterinary Medicine, School of, 204
Colleges and schools, definition of, 337
Colonialism and diasporas, concentration, 19, 124
Commission on Colleges, 1, 7
Committees, graduate, 199, 201
Communication Across the Curriculum, 210
Communication Sciences and Disorders, Department of, 116
courses, 254
curriculum, 18, 116
Communication Studies, Department of, 116
courses, 255
curriculum, 18, 117
minor in, 24, 117
Communications and University Relations, Office, 10, 333
Community Design and Development, Office of, 9, 215
Community design, minor, 24, 104
Community Engagement, Learning & Leadership, 210
Comparative Biomedical Sciences, Department of, 204
courses, 256
Comparative Literature, interdepartmental program, 117
courses, 256
Compliance, Selective Service, 37
Composition, concentration, 23, 183
Comprehensive Academic Tracking System (CATS), 65
Comprehensive Public Training Program, 94, 215
Comprehensive final examination, 199
Computation & Technology, Center for, 207
Computer-Aided Design lab (CADGIS), 215
Computer and Information Technology (see Continuing Education), 226
Computer engineering, 23, 185, 226
courses, 266
curriculum, 22, 170
Computer science and a second discipline, concentration, 20, 137
Computer Training Program, 226
Concentrated study period, 69
Concentration, areas of, 15, 66, 337
actuarial science (see Mathematics), 20, 138
adult, extension, and international education, 16, 95
advertising, 23, 179
Africa, 19, 124
African and African American Studies, 19, 125
agribusiness finance, 15, 88
agribusiness management, 15, 88
agricultural pest management, 16, 89, 91
animal science, 15, 91
apparel design, 16, 93
applied/discrete mathematics, 20, 139
applied sociology, 19, 128
art, 21, 157
art history, 19, 125
arts administration, 23, 186
Asia, 19, 124
astronomy, 20, 139
athletic training, 22, 158
biological chemistry, 20, 136
biomolecular, 22, 166
brass, 23, 183
career development, 16, 95
ceramics, 17, 107
chemical physics, 19, 136
chemistry, 20, 136
chemistry and a second discipline, 20, 136
child & family studies, 16, 92
colonialism and diasporas, 19, 124
composition, 23, 183
computer science (see Mathematics), 20, 139
computer science and a second discipline, 20, 137
conservation biology, 17, 101
creative writing, 18, 118
criminology (see Sociology), 19, 128
crop management, 16, 98
dairy foods technology, 15, 91
dairy production, 15, 91
design/technology, 23, 186
dietetics, 16, 93
digital art, 17, 107
disaster science & management, 19, 125
distributed systems & networking, 20, 137
eyearly childhood administration and leadership, 16, 92
ecological restoration, 17, 100
empirical economic analysis, 20, 117, 145, 146
entrepreneurship, 21, 147
environment and development, 19, 124
environmental, 22, 166
environmental analysis & risk management, 17, 98
environmental chemistry, 20, 136
environmental geology, 20, 138
environmental horticulture, 16, 98
Europe, 19, 124
fisheries and aquaculture, 17, 101
fitness studies, 22, 159
food business/marketing, 15, 90
food chemistry and analysis, 15, 90
food processing and product development, 15, 90
food safety/applied microbiology, 15, 90
forest resources management, 17, 100
four-year undergraduate teacher certification, 21, 157
French and Francophone cultural studies, 18, 120
French and Francophone political studies, 18, 120
geology, 20, 138
geophysics, 20, 138
global diplomacy, 19, 124
global studies, 19, 125
graphic design, 17, 107
harp, 23, 183
health and physical education teacher certification, 22, 159
health sciences, 18, 121
Holmes certification, 21, 157
horticultural science, 16, 98
human movement science, 22, 159
human resource & leadership development, 16, 95
human resource management, 21, 147
instrumental, 23, 185
interdisciplinary studies, 18, 120
international business, 15, 18, 88, 120
international studies, 18, 120
journalism, 23, 179
landscape management, 16, 98
Latin America, 19, 124
leadership & society, 18, 120
literary studies, 18, 120
literature, 18, 118
literature, history, and theory, 23, 186
management, 21, 146
marine biology, 19, 135
materials, 20, 22, 136, 166
mathematical statistics, 20, 139
mathematics, 20, 139
medical physics, 20, 139
merchandising, 16, 93
Middle East, 19, 124
natural resource conservation, 17, 101
nutritional science/premedical, 16, 93
organ, 23, 183
painting and drawing, 17, 107
percussion, 23, 183
performance, 23, 187
photography, 17, 107
physician's assistant, 81
physics, 20, 139
physics and a second discipline, 20, 139
piano pedagogy, 23, 183
piano performance, 23, 184
policy analysis, 17, 98
political communication, 23, 179
polymers, 20, 136
poultry science, 15, 92
premedical, 15, 90
pre-professional chemistry, 20, 136
pre-veterinary medicine, 15, 17, 92, 101
printmaking, 17, 107
public relations, 23, 179
religion studies, 19, 127
resource conservation, 17, 98
rural development, 15, 88
rural sociology, 19, 128
Russia and Central Asia, 19, 124
science and technology, 15, 92
sculpture, 17, 107
second discipline (see Chemistry, 19, 136: Computer Science, 20, 137: Physics, 20, 139)
secondary education, 18, 19, 20, 118, 119, 122, 135, 136, 139
software engineering, 20, 137
soil science, 16, 98
sport commerce, 22, 160
sport leadership, 22, 160
sports studies, 22, 159
strings, 23, 184
studies in organizations, 18, 120
textile science, 16, 93
theatre studies, 23, 186
turfgrass management, 16, 98
urban entomology, 16, 89
vocal (see Music Éducation), 23, 185
voice, 23, 184
wetland science, 17, 101
wildlife ecology, 17, 101
wildlife law enforcement, 17, 101
woodwind, 23, 183
writing and culture, 18, 118
writing and performing arts, 18, 120
Concentration, definition of, 15, 66, 337
Concurrent enrollment (transfer students), 68
Conduct, standards of, 74
Conservation biology, concentration, 17, 101
Courses of instruction, listing of, 233

Courses of instruction, listing of, 233
accounting, 237
advertising, 302
aerospace studies, 238
African and African American studies, 238
aging, 299
agricultural economics, 238
agriculture (general), 239
agronomy, 239
animal science, 240
anthropology, 240
apparel, textiles, and merchandising, 286
applied music, 308
Arabic, 241
architecture, 241
art, 242
art history, 244
astronomy, 245
basic sciences, 245
biochemistry (see Biological Sciences), 246
biogeography, 280
biological engineering, 245
biological sciences, 246
biology (see Biological Sciences), 246
business administration, 248
business law, 249
cartography, 279
ceramics, 242
chemical engineering, 249
chemistry, 250
Chinese, 251
civil engineering, 252
classical studies, 254
climatology, 279
coastal geography, 279
communication disorders, 254
communication studies, 255
comparative biomedical sciences, 256
comparative literature, 257
computer engineering (see Electrical Engineering), 266
counselor education, 264
counselor education, 264
crop science (see Agronomy), 239
curriculum and instruction, 259
curriculum, 259
dairy science, 262
digital art, 243
disaster science and management, 263
drawing, 243
drugs, 243
education (see Educational Leadership, Research, and Counseling, 264; Curriculum and Instruction, 259; Education, 264; and Human Resource Education, 287)
educational administration, 265
educational foundations, 265
educational leadership, research, and counseling, courses, 264
educational research, 265
environmental engineering, 272
environmental geography, 279
environmental management systems, 273
environmental sciences, 273
experimental statistics, 274
family, child, and consumer sciences, 285
film and media arts, 275
finance, 276
fluids/hydraulics (see Civil Engineering), 252
food and nutrition (see Human Ecology), 286
food science, 277
French, 277
geographic information systems, 279
geography, 279
genetics (see Biological Sciences), 246
group study, 10
human ecology, 285
human geography, 279
human language, 286
human resource management, 287
industrial engineering, 290
information systems and decision sciences, 291
interior design, 293
international studies, 293
Italian, 294
Japanese, 294
jewelry/metal smithing, 243
journalism, 302
kinesiology, 294
landscape architecture, 297
Latin, 298
liberal arts, 298
library and information sciences, 298
life course and aging, 299
linguistics, 299
LSU, 299
management, 299
marketing, 300
mapping sciences, 279
mass communication, 301
mathematics, 303
mechanical engineering, 305
medical physics, 307
merchandising, 286
military science, 307
music, 308
music education, 311
nuclear science, 311
nutrition and food, 286
oceanography and coastal sciences, 311
painting, 243
pathobiological sciences, 313
petroleum engineering, 313
philosophy, 314
photography, 244
physical education (see Kinesiology), 294
physical geography, 279
physical science, 315
physics, 315
plant biology (see Biological Sciences), 246
plant health, 316
political communication, 303
political science, 317
Portuguese, 318
poultry science, 318
printmaking, 244
psychology, 319
public administration, 320
public relations, 303
reading (see Curriculum and Instruction), 259
real estate (see Finance), 276
recreation (see Kinesiology), 294
regional geography, 279
religious studies, 321
remote sensing, 279
renewable natural resources, 322
risk and insurance (see Finance), 276
Russian, 324
sculpture, 244
social work, 324
sociology, 325
soil science (see Agronomy), 239
Spanish, 326
sports (see Kinesiology), 294
statistics (see Experimental Statistics, 274; and/or Information Systems and Decision Sciences, 291)
study skills (see University College), 330
Surveying (see Civil Engineering), 252
Swahili, 327
systematic geography, 279
systems science, 327
textiles and apparel (see Human Ecology), 286
theatre, 327
transportation (see Civil Engineering), 252
university, 330
university college, 330
veterinary clinical sciences, 330
veterinary medicine, 330
veterinary science, 330
women's and gender studies, 330
zoology (see Biological Sciences), 246
Cox Communications Academic Center for Student-Athletes, 14
Creative writing, concentration, 18, 118
Credit, acceptance of, from other colleges, 40, 68
advanced-standing/placement, 41, 69
for correspondence study, 69, 104, 114, 131, 143, 154, 162, 178, 180, 184, 197, 225
for courses audited, 69, 198
definition of, 337
examinations (see Advanced-Standing/Placement Examinations), 41, 69
graduate, 199, 200
graduate credit for LSU seniors, 68, 196
for repeated courses, 69
per semester hour, 233
system, 68
transfer of, 40, 68, 85, 103, 106, 111, 131, 141, 161, 173, 178, 181
Criminology, concentration, 19, 128
Critical Tracking Criteria (CATS), 66
Crop management, concentration, 16, 99
Crop science (see Agronomy), courses, 239
Cross enrollment program, Baton Rouge Community College, 41
Cross-listing, definition of, 337
Cum laude degree, 67
Cumulative average, 72, 197, 337
Curricula in, accounting, 20, 145
agricultural business, 15, 88
allied health (preprofessional), 79
animal, dairy, and poultry sciences, 15, 91
anthropology, 18, 122
architecture, 17, 105
art (see Studio Art), 17, 106
biochemistry, 19, 134
biological engineering, 22, 165
biological sciences, 19, 134
business administration, 20, 142, 144
cardiopulmonary science (pre-professional), 80
chemical engineering, 22, 165
chemistry, 19, 135
child and family studies, 16, 92
civil engineering, 22, 167
coastal environmental science, 21, 150
communication disorders, 18, 116
communication studies, 18, 117
computer engineering, 22, 170
computer science, 20, 137
construction management, 22, 168
dairy science (see Animal, Dairy, Poultry Sciences), 15, 91
dental hygiene (preprofessional), 81
dental laboratory technology (pre-professional), 81
eyoung childhood education: PK-3 teacher certification, 21, 93, 156
economics (BA degree), 18, 117
economics (BS degree), 20, 145
electrical engineering, 22, 169
elementary grades education, 21, 157
English, 18, 118
environmental engineering, 22, 168
environmental management systems, 17, 98
finance, 20, 146
food science and technology, 15, 90
forestry (forest management), 17, 100
French, 18, 119
freshman year, 79
general business administration, 21, 144
general studies, 18, 120
geography (BA, BS), 18, 121-122
geology, 20, 138
German, 18, 118
history, 18, 122
human resource education, 16, 94
industrial engineering, 22, 168
information systems and decision sciences, 20, 146
interior design, 17, 108
international studies, 18, 123
international trade and finance, 20, 145
kinesiology, 21, 158
landscape architecture, 17, 109
Latin, 18, 119
liberal arts, 19, 125
management, 21, 146
marketing, 21, 147
mass communication, 22, 179
mathematics, 20, 138
mechanical engineering, 22, 170
medical technology (pre-professional), 81
microbiology, 19, 135
music (BA), 23, 185
music (BM), 23, 183
music education, 23, 185
music therapy, 185
natural resource ecology and management, 17, 100
nutritional sciences, 16, 92
nursing (pre-professional), 82
petroleum engineering, 22, 171
philosophy, 19, 126
physician's assistant (pre-professional), 80
physics, 20, 139
plant and soil systems, 17, 89, 90, 99
political science, 19, 127
poultry science (see Animal, Dairy, and Poultry Sciences), 15, 91
pre-professional, 80
psychology, 19, 127
rehabilitation counseling (pre-professional), 81
respiratory therapy (pre-professional), 80
secondary education, 21, 157
sociology, 19, 128
Spanish, 18, 119
sport administration, 21, 159
studio art, 17, 106
textiles, apparel, and merchandising, 16, 93
Departments of instruction, 8

Dental laboratory technology, 15, 91
Dental hygiene, pre-

Daily Reveille, 34
Dairy foods technology, 15, 91
Dairy production, concentration, 15, 91
Dairy science, courses, 262
Dance, minor in, 24, 182
Dean’s list, 67
Dean of Students, Office of, 30
Decision sciences (see Information Systems and Decision Sciences), 146
Degree, definition of, 14, 337
Degree charts (see individual colleges), 15, 188
Degree designation, definition of, 14, 337
Degree-only fees, 62, 193
Degree program, changing, 192, 198
Degree program, definition of, 14, 337
Degree requirements, undergraduate (also see individual colleges), 65
Degree subject area, definition of, 14, 337
Degree title, definition of, 14, 337
Degrees, bachelors, academic requirements for, 65
by college, 13
graduate, requirements for, 199, 200
with honors, 67, 173
listing of (also see individual colleges), 13, 15, 188
procedure for obtaining, 66
second bachelor’s degree, requirements for, 66, 104, 113, 144, 164, 181
Delta Express Project, 8
Dental hygiene, pre-professional, curriculum, 81
Dental laboratory technology, pre-professional, curriculum, 81
Departments of instruction, accounting, 145
aerospace studies, 116
agricultural economics and agribusiness, 88
allied health (programs), 80
animal sciences (school of), 91
architecture (school of), 105
art (school of), 106
biological and agricultural engineering, 88, 164
biology, 134
chemical engineering, (Gordon A. and Mary Cain), 165
chemistry, 135
civil and environmental engineering, 166
communication sciences and disorders, 116
communication studies, 116
comparative biomedical sciences, 204
comparative literature (interdepartmental program), 117
computer science, 136
construction management & industrial engineering, 168
economics, 145
engineering, 169
English, 117
etymology, 88
environmental sciences, 150
experimental statistics, 89
finance, 146
food science, 89
foreign languages and literatures, 118
French studies, 119
general studies (intercollegiate program), 120
géographie et anthropologie, 121
géologie et géophysique, 137
history, 122
human ecology (school of), 92
human resource education and workforce development (school of), 94
independent and distance learning (office of), 225
information systems and decision sciences, 146
interior design, 107
international studies (interdepartmental program), 123
kinesiology, 158
laboratory school, 160
landscape architecture (school of), 108
liberal arts (intercollegiate program), 125
library and information science (school of), 203
linguistics (interdepartmental program), 125
management, (William and Catherine M. Rucks), 146
marketing, 147
mass communication (Manship school of), 177
mathematics, 138
mechanical engineering, 170
military science, 126
music (school of), 182
oceanography and coastal sciences, 151
pathobiological sciences, 204
petroleum engineering, (Craft and Hawkins), 171
philosophy and religious studies, 126
physics and astronomy, 139
plant, environmental, and soil sciences (school of), 97
plant pathology and crop physiology, 90
political science, 127
pre-professional programs, 80
psychology, 127
public administration (institute), 147, 219
renewable natural resources (school of), 99
social work (school of), 203
sociology, 128
theatre, 186
university laboratory school, 160
veterinary clinical sciences, 204
veterinary medicine (school of), 204
women’s and gender studies (interdepartmental program), 128
Department, definition of, 337
Deposit, for housing, 32
Design, courses (see Apparel Design, 286; and Graphic Design, 243)
Design/Technology, concentration, 23, 186
Designations (courses), alphabetical listing of, 234
Development (see LSU Foundation), 330
Development and Outreach, 224
Dietetics, concentration, 16, 93
digital art, concentration, 17, 107
courses, 243
dining plans, 34, 61
fees for, 34, 61
dining services, 34, 61
Diploma, fee for (see Graduation Fees), 61, 194
how to obtain, 66
Disability services, 30
Disaster Management Institute, 219
Disaster Science and Management, concentration, 19, 125
courses, 263
minor in, 25, 114
Discipline, University, 74
Dissertation, 201
Distinguished Dissertation Award, graduate, 201
Distinguished Freshman Awards, 46
Distinguished professors, 335
Distributed systems & networking, concentration, 20, 137
Division of Student Life, 8, 11, 29, 333
Doctor of Musical Arts (DMA), requirements for, 202
Doctor of Philosophy degree, 200 advisory committee, 201
application for degree, 202
certification of completion, 202
continuous registration requirement, 201
course work, 200
dissertation, 201
Distinguished Dissertation Award, 201
DMA requirements, 202
final examination, 202
fulfillment of requirements, 200
full-time requirement for residence, 201
general examination, 201
program of study, 200
requirements for DMA, 202
time limit, 202
Dormitories (see Residential Life), 32
Drawing, courses, 243
Dropping courses, procedure for, 67
Dual degrees, 66
Dual (high school) enrollment program, 39

◆ E

Early admission program, 39
Early childhood administration & leadership, 16, 92
Early childhood education: PK-3
teacher certification, 21, 93, 156
Earth Scan Laboratory, LSU, 9
Ecological restoration, concentration, 17, 100
Economics, Department of, 145
courses, 263
curricula, 118, 145
minor in, 25, 117
Economics (BA degree), curriculum, 18, 117
Economics (BS degree), curriculum, 20, 145
Education, College of, 21, 153
admission to, 153, 155
curricula, 21, 156
degree requirements, 154
major field requirements, 154
PRAXIS examination, 156
scholarships, 52
scholastic requirements, 154
student teaching, 156
teacher certification, 155
undergraduate degrees, 21, 156
Education courses (see Educational Leadership, Research, and Counseling, 264; Curriculum and Instruction, 259; Education, 264; and Human Resource Education, 287)
Educational administration, courses, 265
Educational foundations, courses, 265
Educational Leadership, Research, and Counseling, courses, 264
Educational research, courses, 265
Educational technology, courses, 266
Educational Theory, Policy, and Practice, Department of, 156
curricula, 21, 156
Elective, definition of, 337
College of Arts & Sciences, 114
E. J. Ourso College of Business, 143
Electrical and Computer Engineering, Department of, 169
courses, 266
curricula, 22, 169
minor in, 25, 163
Elementary grades education, curricula, 21, 157
Eligibility for financial aid, 57
Eligibility for graduate degrees, faculty and staff, 197
Empirical economic analysis, concentration, 18, 20, 117, 145
Employees (LSU), nonacademic, registration of, 67, 198
Employment, student, 58
End of Semester Assessment (CATS), 66
Energy Studies, Center for, 207
Engineering, College of, 22, 161, 220
admission to, 161
courses (general), 268
curricula, 22, 164
degree requirements, 162
minor field requirements, 163
proficiency requirements, 161
readmission requirements, 162
residential college, 33
scholarships, 52
undergraduate degrees, 22, 162
work/study program, 164
Engineering Council, 164
Engineering (general), courses, 268
English, Department of, 117
courses, 269
curricula, 18, 118
minor in, 25, 117
English Language and Orientation Program, 216
English proficiency (see individual colleges), 40, 191
English, secondary education, concentration, 18, 118
Enrollment 67, 198
Enrollment Management, 11
Ensemble courses, 308
Entomology, Department of, 88
courses, 272
curriculum (see Plant and Soil Systems), 17, 89
minor in, 25, 86
Entrepreneurship, Institute for, 9, 218
Entrepreneurship, concentration, 21, 147
minor in, 25, 144
Environment and Development, concentration, 19, 123, 124
Environmental, concentration, 22, 166
Environmental analysis & risk management, concentration, 17, 98
Environmental chemistry, concentration, 20, 136
Environmental engineering, 166
courses, 272
curriculum, 22, 168
minor in, 25, 163
Environmental geography, courses, 279
Environmental geology, concentration, 20, 138
Environmental horticulture, concentration, 16, 99
Environmental management systems, courses, 273
curriculum, 17, 98
minor in, 25, 86
Environmental Sciences, Department of, 150
courses, 273
Equal employment opportunity, 12
Equivalent, definition of, 337
Europe, concentration, 19, 123, 124
Examinations, advanced-standing/placement, 41, 69
college board, 42
for doctoral degree, 201
final, 70, 199, 202
for master's degree, 199
midsemester, 69
PRAXIS examination, 156
proficiency, 69
subject, 69
Exchange, National Student, 115, 179, 199, 223
Executive Education, 9
Executive Vice Chancellor and Provost, Office of, 10, 210
Exemption (of fees), persons over 65, 62
Experimental Statistics, Department of, 89
courses, 274
Extended Learning, 225
External Affairs, Office of, 10

Index 347
Finance, Department of, 146
courses, 276
curricula, 20, 146
Finance and Administrative Services, 33
Vice Chancellor for, 10, 333
Finances, University, 12
Financial aid, 46, 193
Alumni Association Top 100
Scholars, 46
application for, 46
Bengal Legacy Scholarship, 47
Centennial Award, 47
Chancellor's alumni scholarship
program, 46
Chancellor's leadership award, 47
eligibility for, 57
federal, 57
Golden Oaks Award, 47
honor scholarships, 46
loan funds, 57, 194
Louisiana Go Grant, 48
merit scholarships, 46
National Scholars Award, 46
Pelican Promise Award, 47
ROTC, 46
scholarships, 48-57
state assistance, 48
student employment, 58
student loan funds, 57, 194
Tiger Scholars, 47
TOPS, 48
veteran's benefits, 61
work/study program (engineering)
(see Cooperative Education
Program), 29, 164
Financial obligation to the
University, 63
Fine art, minor in, 25, 104
Fine arts, courses (see Art), 242
Firefighter certification program, 214
Fire and Emergency Training
Institute, LSU, 213
First Year Experience, 30
Fisheries,
courses (see renewable natural
resources), 322
minor in, 25, 86
Fisheries and aquaculture,
concentration, 17, 101
Fitness studies, concentration, 22, 159
Five-year elementary education
program (see Holmes Certification
concentration), 21, 157
Fluids/hydraulics, courses (see Civil
Engineering), 252
Food and nutrition, courses (see
Human Ecology), 286
Food business & marketing,
concentration, 15, 90
Food chemistry and analysis,
concentration, 15, 90
Food processing and technology,
concentration, 15, 90
Food safety & applied microbiology,
concentration, 15, 90
Food Science, Department of, 89
courses, 277
curriculum, 15, 90
Food services (see University
Auxiliary Services), 34
Foreign exchange programs, 199
Foreign Languages and Literatures,
Department of, 118
courses (see Arabic, 241;
Chinese, 251; Classical
Studies, 254; German, 281;
Greek, 282; Hebrew, 282,
Italian, 294; Japanese, 294;
Latin, 298; Portuguese, 318;
Russian, 324; Spanish, 326;
and Swahili, 327
concentrations, 18, 119
curricula, 18, 118
Foreign students,
admission of (see International
Applicants), 40, 191
English Language and Orientation
Program, 216
graduate admission of, 191
Forest resources
management, concentration, 17, 100
Forestry,
curriculum, 17, 100
minor in, 25, 86
Former students, admission of, 39,
192
Foundation (LSU), 330
Foundation professors, 335
Foundation (Tiger Athletic), 332
Four-year undergraduate teacher
certification, concentration, 21, 157
Fraternities, (see Greek Life), 30
French and Francophone cultural
studies, concentration, 18, 120
French and Francophone political
studies, concentration, 18, 120
French and Francophone Studies,
Center, 207
French Education Project, 9
French Studies, Department of, 119
concentrations, 120
courses, 277
curriculum, 18, 119
minor in, 25, 119
Freshman,
admission of, 38, 79
center, 79
classification as, 68
counseling of, 79
definition of, 68
honors for, 173
interest groups, 33
orientation, 39
registration of, 39
Freshman Year, Center for, 79
classification of students, 68
counseling program, 79
courses (see University College),
330
H

Handicapped students (see Disability Services), 30
Harp, concentration, 23, 183
Hazardous Substance Research Center, 220
Health and physical education certification, concentration, 22, 159
Health Center, Student, 34
fee for, 61
Health sciences, concentration, 18, 120
minor in, 25, 154
Healthy Aging Studies Project, 9
Herbert, Institute for Theoretical Physics, 217
Hebrew, courses, 282
Herbarium (LSU), 217
Herbarium, Lichen and Bryophyte, 217
Herbarium, Mycological, 217
Herbarium, Vascular Plant, 217
Herget residential college, 33
Heritage conservation, minor in, 25, 104
High School credit programs, Independent and Distance Learning, 226
High school students, admission to LSU, 38
Higher education, courses, 266
Hill Memorial Library, 212
Hiram Student Loans, 59
History, Department of, 122
concentration, 18, 122
courses, 282
curriculum, 18, 122
minor in, 25, 122
History, LSU, 7
Graduate School, 187
Holmes certification, concentration, 21, 157
Holmes Master’s programs, 157
Honorary, degrees (also see individual colleges), 67, 116, 173
scholarships, 46
Honors courses, 116, 284
curricular equivalents, 116, 175
dean’s list, 67
freshmen, 173
graduation with, 67, 173
program, 173
sophomore, 173
university, 67
upper division distinction, 173
Honors College, 173
admission to, 173
courses and equivalents, 175
curriculum, 174
graduation with honors, 173
Housing, 33
Readmission, 173
sophomore honors distinction, 173
upper division honors distinction, 173
Honors Societies, 30
Hopkins Black Box Theatre (Communication Studies Dept), 9
Horticultural science, concentration, 16, 99
Horticulture, courses, 284
minor in, 25, 86
Hour requirement, maximum, 68, 199
master’s degrees, 199
Housing, application for, 32
cost of, 32, 61
deposit, 32
refund of room rent, 34
University apartments, 33
Human Ecology, School of, 92
courses, 285
curricula, 16, 92
Human geography, courses, 279
Human movement science, concentration, 22, 159
Human nutrition and food, courses, 286
Human Resource Education and Workforce Development, School of, 94
admission to human resource education programs, 94
courses, 287
curriculum, 16, 94
Human resource & leadership development, concentration, 16, 95
Human resource management, concentration, 21, 147
Hurricane Center, LSU, 9, 207

I

IELTS, test scores, 40, 191
"I" grade regulations, 70
for graduate students, 197
Identification cards, student, 67
Immunization policy, 37
Independent and Distance Learning, Office of, 225
Independent study, 41, 69, 82, 87
Industrial engineering, courses, 290
curriculum, 22, 168
Infirmary (see Student Health Center), 34
Information Systems and Decision Sciences, Department of, 146
courses, 291
curriculum, 20, 146
Information technology management, minor in, 25, 144
Information technology residential college, 33
Information Technology Services, 211
In-state student, determination of, 37, 193
Institutional Advancement, Office of, 10
Instrumental, concentration, 23, 185
Insurance, student health, 62
Intellectual Property Commercialization & Development, Office of, 209
Intercollege, Environmental Cooperative, Office of, 209
Intercollegiate athletics, 11, 35
Interdisciplinary studies, concentration, 18, 120
Interior Design, Department of, 107
courses, 293
curriculum, 17, 108
Interinstitutional cooperative program (with Southern University), 80, 231
Intranet Auditing, LSU Center for, 8
International Baccalaureate Diploma Program (IB), 42, 45
International business, concentration, 15, 18, 88, 120
International Cultural Center, 62, 224
International English Language Testing Service (IELTS), 40, 191
International Programs, 223
International students, admission of, 40, 191
English Language and Orientation Program, 216
graduate admission of, 191
transfer students, 40
International Services, 223
International studies, concentration, 18, 120
courses, 293
curriculum, 18, 123
minor in, 25, 123
International trade, courses (see Economics), 263
International trade and finance, curriculum, 20, 145
Internship fee, social work, 194
Internships, 29
Intersessions, 4, 14, 72, 225
Italian, courses, 294
minor in, 25, 118

J

Japanese, courses, 294
Jewelry/metalsmithing, courses, 243
Jewish studies, minor in, 25, 114
Job location, 29
Johnston Center for Advanced Microstructures and Devices (CAMD), 8, 209
Journalism, concentration, 23, 179
courses, 302
Junior, classification as, 68

K

Kappa Delta Epsilon, 154
Kinesiology, Department of, 158
courses, 294
curriculum, 21, 158
KLSU-FM, 34

L

Laboratory School, 160
Lagniappe Studies Unlimited, 227
Landscape Architecture, Robert Reich School of, 108
courses, 297
curriculum, 17, 109
Landscape management, concentration, 16, 99
Late application fee, 37, 61, 191, 193
Latin, courses, 298
curriculum, 18, 119
minor in, 25, 118
Latin America, concentration, 19, 124
Leadership & society, concentration, 18, 120
Leadership development, minor in, 26, 87
Legacy Magazine, 34
Les Voyageurs, 9
Liberal arts (BA), curriculum, 19, 125
Liberal Arts, Master of Arts in, 13, 226
courses, 298
Library and Information Science, School of, 203
courses, 298
scholarships, 57
Libraries, LSU, 212
Lichen and Bryophyte Herbarium, 217
Life, Residential, Department of, 32
Life Course and Aging, center, 209
courses, 299
Linguistics, interdepartmental program, 125
courses, 299
minor in, 26, 125
Literary studies, concentration, 18, 120
Literature, comparative, interdepartmental program, 117
courses, 256
Literature, concentration, 18, 118
Literature, history, and theory, concentration, 23, 186
Loads, course, 68, 198, 200
Loan cancellation, 58
Loan funds, student, 57, 194
Louisiana, Applied & Educational Oil Spill Research and Development Program, 210
Business and Technology Center, 9, 218
Consortium of Public Agricultural College (LCPAC), 85
Cooperative Extension Service, 9
Council of the Southern Assoc. Of Colleges & Schools Council on Accreditation & School Improvement for P-12 Schools, 9
Geological Survey, 9, 208
Go Grant, 48
Library Network (LOUIS), 211
Museum of Natural History, 212
Office of State Climatology, 219
Population Data Center, 216
Real Estate Research Institute, 219
resident, classification as, 37, 193
admission of, 37
Sea Grant College Program, 209
Space Consortium, 209
State Arthropod Museum, 214
State Youth Opportunities Unlimited (LSYOU), 9
Transportation Research Center, 220
Universities Marine Consortium, 221
Veterinary Medical Diagnostic Laboratory, 9
Water Resources Research Institute, 221
Louisiana State University, accreditation, 1, 7, 13
administration of, 10, 333
courses, 299
finances of, 12
history of, 7
mission, 7, 8
organization of, 10, 333
System, 7, 333
Union, 31
LSU Agricultural Center, 8, 83, 221
LSU Alumni Association, 330
LSU Cartographic Information Center, 8
LSU Centennial Award, 47
LSU Center for Internal Auditing, 8
LSU Child Care Center, 31
LSU Coastal Roots Program, 9
LSU Fire and Emergency Training Institute, 213
LSU Foundation, 330
LSU Herbarium, 217
LSU Hurricane Center, 9, 207
LSU Libraries, 212
LSU Loans, short term, 59
LSU Museum of Art, 10, 212
LSU Museum of Natural History, 212
LSU Museum of Natural Science, 10, 217
LSU Music Academy, 10
LSU Natatorium, 35
LSU P-12 Education Advisory Council, 155
LSU Press, 213
LSU Student Union, 31
LSU-SU cooperative programs, 231
LSU Teacher Education Council, 185
LSU Textile and Costume Museum, 214
LSU Tiger Athletic Foundation, 332
LSU Writing Project, 9

M

Maddox Fieldhouse, 35
Magna cum laude degree, 67
Major, definition of, 15, 337
Management, Rucks Department of, 146
courses, 299
curriculum, 21, 146
Management and Leadership Institute, (see Continuing Education), 226
Mapping sciences, courses, 279
Maravich Assembly Center, 35
Marine biology, concentration, 19, 135
Marketing, Department of, 147
courses, 300
curriculum, 21, 147
Marketing education, curriculum, 16, 97
Married student housing (see Residential Life), 32
Mass Communication, Manship School of, 22, 177, 221
admission to, 177
courses, 301
curriculum, 22, 179
degree requirements, 178
minor field requirements, 179
minor in, 179
readmission, 177
residential college, 33
scholarships, 55
transfer of credit, 178
undergraduate degree, 24, 178
Master's degree, 199
accelerated program, 200
application for, 199
committees, 199
comprehensive examination, 199
hours required, 199
nonthesis, 199
second master's, 200
thesis, 199
time limits, 199
Master of Business Administration program, Flores, 144
Master of Public Administration degree, 144
Materials, concentrations, 19, 22, 136, 166
Materials science and engineering, minor in, 26, 163
Mathematical statistics, concentration, 20, 139
Mathematics, Department of, 138 concentration, 20, 139
courses, 303
curriculum, 20, 138
minor in, 138
Matriculation, definition of, 337
Maximum course load (also see individual colleges), 68, 198
McKinley High Oral History Project, 9
Mechanical Engineering, Department of, 170
courses, 305
curriculum, 22, 170
minor in, 26, 163
Medal, University, awarding of, 67
Media and Public Affairs, Reilly Center for, 9, 221
Media, Student, Office of, 34
Medical care (see Health Center), 34
Medical physics, concentration, 20, 139
courses, 307
Medical technology, pre-professional program, 81
Medicine (see premedical/predental counseling) 87, 133
Mental Health Service, 34
Merchandising, concentration, 16, 93
courses, 286
Merit scholarships, 46
Microbiology, courses (see Biological Sciences), 246
curriculum, 19, 135
Middle East, concentration, 19, 124
Middleton Library (see LSU Libraries), 212
Midsemester assessment (CATS), 66
Midsemester exams, 69
Military Science, Department of, 126
courses, 307
Minerals Processing Research Division, 208
Minimum academic progress (CATS), 66
Minor, definition of, 15, 66, 337
Minors, 24, 66, 337
aerospace engineering, 24, 163
aerospace studies, 24, 113
African and African American studies, 24, 113
agricultural business, 24, 86
agricultural pest management, 24, 86
agriculture, for students in mass communication, 24, 86
agronomy, 24, 86
animal, dairy, poultry sciences, 24, 86
anthropology, 24, 122
applied statistics, 24, 86
aquaculture, 24, 86
architectural history, 24, 104
art history, 24, 104, 113
Asian studies, 24, 113
biological engineering, 24, 163
biological sciences, 24, 134
business administration, 24, 86, 104, 144, 179
ceramics, 24, 107
chemistry, 24, 135
Chinese, 24, 118
Chinese culture and commerce, 24, 114
classical civilization, 24, 119
communication studies, 24, 117
community design, 24, 104
computer science, 24, 137
cultural and environmental management, 24, 163
definition of, 15, 66, 337
dance, 24, 182
digital media AVATAR – Arts, 25, 107
digital media AVATAR – TECH, 25, 163
disaster science and management, 25, 114
economics (College of Arts and Sciences), 25, 117
electrical and computer engineering, 25, 163
English, 25, 117
etnology, 25, 86
entrepreneurship, 25, 144
environmental engineering, 25, 163
environmental management systems, 25, 86
film & media arts, 25, 114
fine art, 25, 104
fisheries, 25, 86
forestry, 25, 86
French, 25, 119
geography, 25, 121
geology, 25, 138
German, 25, 118
Greek, 25, 118
health sciences, 25, 154
heritage conservation, 25, 104
history, 25, 122
horticulture, 25, 86
in college/school of, Agriculture, 86
Art and Design, 104, 107
Arts and Sciences, 113
Basic Sciences, 133
Business, 144
Coast and Environment, 149
Education, 154
Engineering, 163
Mass Communication, 179
Music and Dramatic Arts, 182
information technology management, 25, 144
international studies, 25, 123
Italian, 25, 118
Jewish studies, 25, 114
Latin, 25, 118
leadership development, 26, 182
mass communication (general), 179
materials science and engineering, 26, 163
mathematics, 26, 138
mechanical engineering, 26, 163
music, 26, 182
nuclear power engineering, 26, 163
nuclear science, 26, 139
nutritional sciences, 26, 87
occupational health and safety, 26, 163
oceanography and coastal sciences, 26, 149
painting and drawing, 26, 107
philosophy, 26, 126
photography, 26, 107
physics, 26, 139
political communication, 26, 179
political discourse studies, 26, 114
political science, 26, 127
printmaking, 26, 107
professional leadership, 26, 114
psychology, 26, 127
quality and reliability engineering, 26, 163
religious studies, 26, 126
rural sociology, 26, 128
Russian, 26, 118
sculpture, 26, 107
social work, 27, 203
sociology, 27, 128
Spanish, 27, 118
special education mild/moderate disabilities, 27, 154
sports studies, 27, 154
structural engineering, 27, 163
sugar engineering, 26, 163
surveying, 27, 163
technical sales, 27, 163
textiles, merchandising, and apparel, 27, 87
theatre, 27, 182
transportation engineering, 27, 163
visual communication, 27, 107, 179
vocational education, 27, 87
wildlife ecology, 27, 87
women's and gender studies, 27, 128
Mission, of LSU, 7, 8
Money and banking, courses (see Economics), 263
Motor vehicle registration fee, 62
Multicultural Affairs, Office of, 32
Museum of Art, LSU, 10, 212
Museum of Natural History, Louisiana, 212
Museum of Natural Science, 10, 217
Music, School of, 182
courses, 308
curricula, 23, 183, 185
general requirements, 183
minor in, 26, 182
Music education, 184
courses, 311
curriculum, 23, 185
degree requirements, 184
Music and Dramatic Arts, College of, 10, 23, 181
admission to, 181
auditions, 182
curricula, 23, 182
minor field requirements, 182
scholarships, 55
undergraduate degrees, 23, 182
Music therapy, program, 185
Mycological herbarium, 217

♦ N

National Center for Biomedical Research & Training, 214
National Center for Security Research & Training, 213
National Scholars Award, 46
National student exchange, 115, 179, 199, 223
Natural resource conservation, concentration, 17, 101
Natural resource ecology & management, courses (see Renewable Natural Resources), 333
curriculum, 17, 100
Natural Science, Museum of, 10, 217
Division of Geoscience, 217
Division of Zoology, 217
Naval Reserve Officers Training Corps, 230
Networking Infrastructure, 211
Non-credit programs, 226
Nonmatriculated, definition of, 337
admission, 192
Nonmatriculating students, enrollment of, 80
Nonresident, how to determine, 37, 193
fee for, 61-63, 193
Not regularly admitted students, enrollment of, 80
Nuclear power engineering, minor in, 26, 163
Nuclear science, courses, 311
minor, 26, 139
Numbering, of courses, 233
Nursing program (prenursing), 82
Nutrition and food, courses, 286
Nutritional sciences, concentration, 16, 93
curriculum, 16, 92
minor in, 26, 87

♦ O

Oak Ridge Associated Universities, 222
Occupational health & safety, minor in, 26, 163
Oceanography and Coastal Sciences, Department of, 151
courses, 311
curriculum, 21, 151
undergraduate minor, 26, 149
Off-campus programs, 14, 225
Office of Academic Affairs, 10, 210, 333
Office of Academic Programs Abroad, 223
Office of Assessment & Evaluation, 213
Office of the Chancellor, 10, 333
Office of Climatology, 216
Office of Community Design & Development, 9, 215
Office of Communications and University Relations, 10, 333
Office of the Dean of Students, 30
Office of the Executive Vice Chancellor and Provost, 10, 210
Office of External Affairs, 10
Office of Finance & Administrative Services, 10, 333
Office of Independent and Distance Learning, 225
Office of Institutional Advancement, 10
Office of Intellectual Property, 213
Office of Intercollege, Environmental Cooperative, 209
Office of Multicultural Affairs, 32
Office of Parking, Traffic, and Transportation, 32
Office of Research & Economic Development, 11, 333
Office of Sea Grant Development, 9, 209
Office of Social Service Research and Development, 10
Office of Sponsored Programs, 210
Office of Strategic Initiatives, 11, 333
Office of Student Media, 34
Office of Undergraduate Admissions and Student Aid, 11, 37
Office of the University Registrar, 11
Oil Spill Research and Development Program, Louisiana, 208
Omicron Delta Kappa, 30, 180
Operational fee, 61
Oral History, T. Harry Williams Center for, 212
Organ, concentration, 23, 183
Organization, of Baton Rouge campus, 10, 333
Organization for Tropical Studies, 222
Organizations, studies in, concentration, 18, 120
Orientation, 39
Osher Lifelong Learning Institute, 227
Ourso College of Business, 141
Out-of-state student, determination of, 37, 193
admission of, 37, 193
Overseas study, 115, 199, 223

♦ P

Painting, courses, 243
Painting and drawing, concentration, 17, 107
minor in, 26, 107
Paralegal Studies Program (see Continuing Education), 226
Parking, Traffic, and Transportation, Office of, 32
Part-time student, classification as, 68
Pass-audit option, 71
Pass-fail option, 70, 115, 133, 143, 197
Pathobiological Sciences, Department of, 204
courses, 313
PAWS, definition of, 337
Payment of fees, 62
Pelican Promise Award, 47
Pell Grants, 57
Pennington Biomedical Research Center, 222
Percussion, concentration, 23, 183
Performance, concentration, 23, 186
Peripheral Neuropathy Exercise Intervention Project, 9
Perkins loans, 57, 197
Personal Enrichment Program, 227
Petroleum Engineering, Craft & Hawkins Department of, 171
courses, 313
curriculum, 22, 171
Phi Beta Kappa, 30, 115, 134
Phi Kappa Phi, 31, 87, 105, 11, 134, 143, 150, 154, 164, 180, 182
Philosophy and Religious Studies, Department of, 126
courses, 314, 321
curriculum, 19, 126
minor in, 26, 126
Photography, concentration, 17, 107
courses, 244
minor, 26, 107
Physical education, curriculum (see Kinesiology), 21, 158
courses (see Kinesiology), 294
Physical geography, courses, 279
Physical science, courses, 315
Physician's assistant, pre-professional, 80
Physics and a second discipline, concentration, 20, 139
Physics and Astronomy, Department of, 139
concentrations, 20, 139
courses, 245, 315, 307
curriculum, 20, 139
minor in, 26, 139
Piano pedagogy, concentration, 23, 183
Piano performance, concentration, 23, 184
PK-3 teacher certification, 93, 156
Placement services, 29, 115, 144, 179
Plant and soil systems, curriculum, 16, 89, 90, 99
Plant biology,
courses (see Biological Sciences), 246
curriculum (see Biological Sciences), 134
Plant, Environmental, & Soil Sciences (School of), 97
curricula, 98, 99
Plant health, courses, 316
Plant Pathology and Crop Physiology, Department of, 90
courses, 316
curriculum (see Plant & Soil Systems), 90
Policy analysis, concentration, 17, 98
Political communication, concentration, 23, 179
courses, 303
minor in, 26, 179
Political discourse studies, minor in, 141
Political Science, Department of, 127
courses, 328
curricula, 19, 127
minor in, 26, 127
Polymers, concentration, 20, 136
Population Data Center, Louisiana, 216
Portuguese, courses, 318
Positive Behavior Support Center, 9
Post Office, 35
Poultry science,
courses (see Poultry Sciences), 3
Preprofessional and youth non-credit programs, 226
Pre-degree students, 80
Predental counseling, 87, 133
Premedical, concentration, 15, 90, 93
Premedical counseling, 87, 133
Pre-occupational therapy, 81
Prephysical therapy, 81
Pre-professional chemistry,
courses, 20, 136
Preprofessional program, definition of, 337
Pre-professional students, 80
Prerequisite, definition of, 337
Press, LSU, 213
Preveterinary medicine, concentration, 15, 87, 92, 101
Printmaking,
courses, 244
minor, 26, 107
Privacy of student records, 71
Probation, college scholastic, 72
College of Art & Design, 103
College of Basic Sciences, 133
E. J. Ourso College of Business, 142
School of Coast & Environment, 149
Probation, scholastic (graduate), 197
Probation, university scholastic, 72
Procedure, for obtaining diploma, 66
Processing fees, graduate, 194
Professional affiliate member,
Graduate faculty, 335
Professional Development Program, 226
Professional leadership, minor in, 26, 114
Professorships, distinguished, 335
Proficiency examination, definition of, 337
Program of study, 200
Programs, Sponsored, 210
Provost, 10, 210, 333
Psychological Services Center, 9
Psychology, Department of, 127
courses, 319
curricula, 19, 127
minor in, 26, 127
Public Administration Institute, 147, 219
Public administration,
courses, 332
Master program, 144
Public Management Program, 94, 214
Public Policy Research Laboratory, 9
Public relations,
courses, 23, 179
minor in, 303
Public Safety, 32
Public service, 8, 227
Purpose, of LSU, 7, 8
♦ Q
Quality and reliability engineering, minor in, 26, 163
Quality point, definition of, 337
Quality points assigned to letter grades, 70, 197
♦ R
Radiation Safety Office, 208
Reading (see Curriculum & Instruction), courses, 259
Readmission,
of former students, 39, 192
to Graduate School, 192
after probation, 72
Real estate, courses (see Finance), 276
Real Estate Research Institute, 9, 219
Records, student, privacy of, 71
Recreation, courses (see Kinesiology), 294
Recreation Complex, Student, 34
Registering, courses, 39, 72, 192
Refund,
of fees, 63
of room rent, 34
Regional Climate Center, Southern, 216
Regional geography, courses, 279
Registration, 67, 198
cancellation of, 68
continuous requirement, 201
definition of, 337
graduate, of LSU seniors, 196
multicampus, 199
nonacademic employees, 68, 198
Regulations, Graduate School, 196
Rehabilitation counseling (pre-professional), 81
Reilly Center for Media & Public Affairs, 9, 221
Relation Station Matchbox Interaction Lab, 9
Religious studies,
concentrations, 19, 126
courses, 321
minor in, 26, 126
Remote sensing, courses, 279
Renaissance Studies (Eric Voegelin Institute), 216
Renewable Natural Resources, School of, 99
courses, 322
curricula, 17, 100
Repeated courses, credit for, 69
Requirements,
for admission, 38, 190
for baccalaureate degree, 65
college scholastic, 72
for graduate degrees, 199, 200
for human resource education, 94
for obtaining diploma, 66
scholastic, 66, 72
for second baccalaureate degree, 66
for student teaching, 156
university scholastic, 72
Research affiliate member, Graduate faculty, 335
Research and Economic Development, Vice Chancellor for, 11, 207, 333
Research fees, 194
Research Office for Novice Design Education, 215
Research Scholarship Program, Ronald E. McNair, 79, 80
Scholarships, general, 48

Schedule, student, definition of, 3

SAT, 42

Sanitary engineering, courses (see Civil Engineering), 252

Science and technology, concentration, 15, 92

Sculpture, concentration, 17, 107

courses, 244

minor in, 26, 107

Sea Grant Development, 9, 209

Selective Service, Compliance of, 37

Second bachelor's degree, requirements for (also see individual colleges), 66

Second discipline, concentration, (see Chemistry, 136; Computer Science, 137; Physics, 139)

Second master's degree, 200

Secondary education, concentrations, 18, 19, 20, 118, 119, 120, 122, 135, 136, 139

curriculum, 21, 157

Semester hour, definition of, 337

Senior, classification as, 68

graduate registration of, 68, 196

Senior college, definition of, 337

Seniors, graduating, procedural requirements for, 65

Services for disabled, 30

Short courses, fees for (summer), 62, 193

Social Service Research and Development, Office of, 10

Social Work, School of, 203

courses, 324

minor in, 27, 203

Sociology, Department of, 128

courses, 325

curriculum, 19, 128

minor in, 27, 128

Software engineering, concentration, 20, 137

Soil science, (see Agronomy), concentration, 16, 99

courses, 239

Sophomore, classification as, 68

honors for, 173

Sororities, (see Greek Life), 30

Southern Association of Colleges and Schools (SACS), 1, 7

Southern Regional Climate Center, 216

Southern Review, 214

Southern University, cooperative programs with, 80, 231

Space Consortium, 209

Spanish, courses, 326

curriculum, 18, 119

minor in, 27, 118

Spanish Education Project, 10

Special education mild/moderate disabilities, minor in, 27, 154

Special programs, 220

Speech-Language Hearing Clinic, 9, 116

Sponsored Programs, Office of, 210

Sport Administration, curriculum, 21, 159

Sport commerce, concentration, 22, 160

Sport leadership, concentration, 22, 160

Sports, recreational (see Department of University Recreation), 35

Sports studies (see Kinesiology), concentration, 22, 159

courses, 294

minor in, 27, 154
Stafford loans, 57, 195
Standard of Conduct, 74
State Climatology, Office of, 216
Statement of accreditation, 1, 7, 13
Statistics, courses (see Experimental
Statistics, 274; and Information
Systems and Decision Sciences,
291)
Stephenson Disaster Management
Institute, 10, 219
Stephenson Entrepreneurship
Institute, 9, 218
Strategic Initiatives, Office of, 11,
333
Strings, concentration, 23, 184
Structural engineering, minor in, 27,
163
Student,
academic appeals, procedure for,
72
Aid & Scholarships, Office of, 46
classification, 68
Conduct, Code of, 74
Council, Arts & Sciences, 115
disability services, 30
with disabilities, 30
employment, 58
exchange, national, 115, 179, 199,
223
health center, 34
fee for, 61
housing, 32, 61
insurance, 62
Life, Vice Chancellor for, 8, 11, 29,
333
loan funds, 57, 194
media, 34
non-matriculating, 80
not regularly admitted, 80
records, privacy of, 71
recreational complex, 34
responsibility, 1, 65, 80, 102, 111,
131, 143, 149, 154, 177, 196
schedules, definition of, 337
technology fee, 61
Student Support Services, 79, 80
Student teaching, requirements for,
156
human resource education, 95
music education, 184
Studies in Organizations,
concentration, 18, 120
Studio art,
curriculum, 17, 106
Study abroad, 115, 154, 179, 201, 227
Study skills, courses (see University
College), 330
Sugar engineering, minor in, 26, 163
Summa cum laude degree, 67
Summer short courses, fees for, 62,
193
Summer term, 72
calendar, 5
Superior undergraduate student, 197
Supervisors, Board of, 8, 333
Surveying, courses (see Civil
Engineering), 252
minor in, 27, 163
Swahili, courses, 327
Swine Palace Productions, 10, 14,
186
System, LSU, 7, 333
Systematic geography, courses, 279
Systems, information and decision
sciences, 146
courses, 291
curriculum, 20, 146
Systems science, courses, 327

T

Tau Sigma Delta, 105
Teacher certification path, 95, 155
Teacher education programs,
admission to, 155
human resource education, 95
Teacher preparation program for
Grades 6-12, 115, 133
Technical sales, minor in, 27, 163
Technology Transfer Office (NASA),
218
Terrain.Kinetics.Interaction (TiKi)
Lab, 215
Test of English as a Foreign
Language (TOEFL), 40, 191
Textile and Costume Museum, LSU,
214
Textiles, apparel, and merchandising,
courses (see Human Ecology), 286
curriculum, 16, 93
minor in, 27, 87
Textile science, concentration, 16, 93
Theatre, Department of, 186
concentrations, 23, 186
courses, 327
curriculum, 23, 186
minor in, 27, 182
Theatre studies, concentration, 23,
186
Thesis/nonthesis programs, 199
Tiger Athletic Foundation, 332
Tiger Card Office, 34
Tiger Scholars, 47
Tiger Stadium, 35
Tiger TV, 34
Time limits, 199, 202
TOEFL, test scores, 40, 193
TOPS Program, 48
Tours, campus, 39
Traffic (see Parking, Traffic, and
Transportation), 32
Transcript, how to obtain, 71
Transfer credit, 40, 68, 196
Transfer student,
admission of, 39, 68, 196
definition of, 337
orientation, 39
registration, 39
scholarships, 47
Transportation (see Civil
Engineering), courses, 252
Transportation Engineering,
minor in, 27, 163
Transportation Research Center, 220
Tropical Studies, Organization for,
222
Tuition (see Fees), 61, 194
Turfgrass management,
concentration, 16, 99
Two-degree programs, enrollment in,
66
Agriculture, College of, 87
Art and Design, College of, 105
Arts and Sciences, College of, 113
Basic Sciences, College of, 133
Education, College of, 154

U

Undergraduate Admissions &
Student Aid, Office of, 11
Undergraduate degrees, 13, 15
Undergraduate education, importance
of, 13
Undergraduate enrollment, in
graduate courses, 68, 196
Undergraduate fees, 61
Undergraduate minors, 24, 66, 337
Union: LSU, 31
United States Civil War Center, 212
University, administration, 333
apartments, 33
Auxiliary Services, 34
baccalaureate requirements, 65
college, 79
courses, 330
development, 331
dining services, 34, 61
discipline, 74
fees, 61, 194
finances, 12
history, 7
honors, 67
Information Systems, 211
Laboratory School, 160
Libraries, 212
medal, 67
mission, 7, 8
organization, 10, 333
police department, 32
public service, 8
Recreation, Department of, 34
research, 8
scholastic drop, 72
scholastic probation, 72
scholastic requirements, 72
scholastic warning, 72
structure, 10
System, 7, 333
teaching, 8
University Auxiliary Services, 34
University College, scholarships, 56
University Registrar, Office of, 11
Urban entomology, concentration, 16, 89
Urban Landscape Lab, 215
User Support, 211

♦ V

Vascular Plant Herbarium, 217
Vehicle registration, 62
Veterans' benefits, 59, 195
Veterinary Clinical Sciences, Department of, 204
Veterinary Medical Diagnostic Lab, Louisiana, 9
Veterinary Medicine, School of, 204
Vice Chancellors, Communication & University Relations, 10, 333
Executive and Provost, 10, 210, 333
Finance and Administrative Services, 10, 333
Research and Economic Development, 11, 207, 333
Strategic Initiatives, 11, 333
Student Life, 11, 29, 333
Visiting student, 41, 80
Visual Communications, minor, 27
College of Art and Design, 107
School of Mass Communication, 179
Vocal music, concentration, 23, 185
Vocational education, minor in, 27, 87
Voegelin Institute for American Renaissance Studies, 216
Voice, concentration, 23, 184

♦ W

"W" grade regulations, 67, 70, 197
Water Resources Research Institute, 221
Wellness education, 34
Wetland Biogeochemistry Research Focus, 219
Wetland science, concentration, 17, 101
Wildlife ecology
concentration, 17, 101
minor in, 27, 87
Wildlife law enforcement,
concentration, 17, 101
Williams Center for Oral History, 212
Windrush Gardens (see Rural Life Museum), 10, 213
Wintersession, 4, 14, 72, 225
Withdrawal from the University (see Resignation), 68, 198
Women's & Gender Studies (BA), 128
courses, 330
curriculum, 19, 129
minor in, 27, 128
Woodwind, concentration, 23, 183
Work/study program (also see individual colleges), 29, 57, 164, 194
Writing and culture, concentration, 18, 118
Writing and performing arts, concentration, 18, 120
Writing Project, LSU, 9

♦ Y

Year classification of students, 68
Youth programs, non-credit, 226

♦ Z

Zoology,
courses (see Biological Sciences), 246
curriculum (see Biological Sciences), 19, 134
Complete Faculty Listing begins on next page.
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. Faculty members currently designated as Boyd Professor at LSU are:

- MARK A. BATZER ● Biological Sciences
- ARTHUR G. BEDEIAN ● Management
- MEREDITH M. BLACKWELL ● Biological Sciences
- C. DINOS CONSTANTINIDES ● Music
- WILLIAM J. COOPER, JR. ● History
- ROBERT A. GODKE ● Animal Sciences
- THOMAS R. KLEI ● Pathobiological Sciences
- ROBERT F. O'CONNELL ● Physics and Astronomy
- CHARLES W. ROYSTER ● History
- GEORGE Z. VOYIADJIS ● Civil and Environmental Engineering
- ISIAH M. WARNER ● Chemistry

Emeriti

- VANCE BOURJAILY ● English
- JAMES M. COLEMAN ● Oceanography and Coastal Sciences
- MARY L. GOOD ● Engineering and Chemistry
- JIMMIE D. LAWSON ● Mathematics
- SEAN P. MCGLYNN ● Chemistry
- WILLIAM A. PRYOR ● Chemistry
- ARTHUR J. RIOPELLE ● Psychology
- HARRY ROBERTS ● Oceanography and Coastal Sciences
- SHIRLEY C. TUCKER ● Plant Biology
- H. JESSE WALKER ● Geography and Anthropology

The William A. Read Professorship of English Literature and the Nicholson Professorship of Mathematics are comparable to the Boyd Professorship. Those holding these professorships are:

- J. GERALD KENNEDY ● William A. Read Professor of English Literature
- HUI-HSIUNG KUO ● Nicholson Professor of Mathematics

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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. Faculty members currently holding the title of Alumni Professor at LSU are:

- GARY R. BYERLY ● Richard R. & Betty S. Fenton Alumni Professor ● Geology & Geophysics
- JANE CASSIDY ● Gianelloni Alumni Professor of Music Education; LSU Alumni Association Departmental Professorship ● Music
- MICHAEL L. CRESPO ● Robert Stobaugh Alumni Professor ● Art
- LOUIS A. DAY ● Ouachita Parish Chapter Alumni Professor ● Mass Communication
- CECIL L. EUBANKS ● Class of 1942 Alumni Professor ● Political Science
- RAY E. FERRELL, JR. ● Webster Parish Chapter Alumni Professor ● Geology & Geophysics
- W. KENNETH FULTON, JR. ● Earleene Nolan Sanders Alumni Professor ● Music
- WILLIAM F. GRIMES ● Emite E. & David D. White Alumni Association Departmental Professor in the School of Music
- MARK S. HAFNER ● DeSoto Parish Chapter Alumni Professor ● Biological Sciences
- JEFFREY S. HANOR ● Past Presidents of the LSU Alumni Association Alumni Professor ● Geology & Geophysics
- STACIA L. HAYNIE ● J. W. Annison, Jr. Family Alumni Professor ● Political Science
- KATHERINE P. KEMLER ● Charles & Mary Barré Alumni Professor ● Music
- P. LYNN KENNEDY ● Crescent City Tigers Alumni Professor ● Agricultural Economics
- JOE W. KOTLIK ● James C. Atherton Alumni Professor ● Human Resource Education
- FRANCES C. LAWRENCE ● Gerald Cire & Lena Grand Williams Alumni Professor ● Human Ecology
- JOHN R. MAY ● Donald & Norma Nash McClure Alumni Professor ● English
- ROBIN L. McCARLEY ● Barbara Womack Alumni Professor ● Chemistry
- ANNA K. NARDO ● Major Morris S. & DeEté A. Anderson Memorial Alumni Professor ● English
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- GESTUR OLAFSSON ● Hubert S. Butts Alumni Professor ● Mathematics
- JAMES G. OXLEY ● William E. “Bud” Davis Endowed Alumni Professor ● Mathematics
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- JAMES A. RICHARD-SON ● John Rhea Alumni Professor ● Economics
- KARL A. ROIDER ● Thomas & Lillian Landrum Alumni Professor ● History
- GEORGE G. STANLEY ● Cyril & Tutta Vetter Louisiana Fund Alumni Professor ● Chemistry
- TERESA A. SUMMERS ● Clift & Nancy Spanier Alumni Professor ● Human Ecology
- JOEL E. TOHLINE ● San Diego LSU Alumni Association Chapter Alumni Professor ● Physics and Astronomy
- FRANK B. WICKES ● Julian R. & Sidney Nicolle Carruth Endowed Alumni Professor ● Music
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- THOMAS R. BEARD ● Economics
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- HERMAN E. DALY ● Economics
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- BURL L. NOGGLE ● History
- ROBERT S. REICH ● Landscape Architecture
- MARION D. SOCOLOFSKY ● Microbiology
- EDWARD F. ZGANJAR ● Physics and Astronomy

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.

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- JOHN MAXWELL HAMILTON ● LSU Foundation Hopkins P. Breazeale Professor of Journalism
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- KEVIN M. SMITH ● LSU Foundation James C. Bolton Professor ● Chemistry

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- JAMES OLENEY ● LSU Foundation Henry J. Voorhies Professor ● English
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The University’s other distinguished professorships and chairs and the faculty members who hold them are as follows:

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ALVIN C. BURNS ● Ourso Distinguished Chair of Marketing
ANDREW BURSTEIN ● Charles Phelps Manship Chair in American History
DONALD M. CHANCE ● Flores Endowed Chair of MBA Studies
C. W. AGNES CHENG ● Ourso Family Endowed Chair in Accounting
H. BARRY DELLINGER ● Patrick F. Taylor Chair in Environmental Impact of Hazardous Waste
JONATHAN P. DOWLING ● Hearne Research Chair in Theoretical Physics
RUDOLF HIRSCHHEIM ● Ourso Family Distinguished Professor and Director of Virtual Organization Endowed Chair
KENNETH R. HOGSTROM ● Dr. Charles M. Smith Chair of Medical Physics
MICHAEL M. KHONSARI ● Dow Chemical Endowed Chair in Rotating Machinery
HUI-HSIUING KUO ● Nicholson Chair of Mathematics
BILLY R. LEONARD ● Jack Hamilton Chair in Cotton Production
JI-CHAI LIN ● Lloyd F. Collette Chair of Financial Studies
ROBERT T. MANN, Jr. ● Manship Chair
ROY J. MARTIN ● G. D. Cain Endowed Chair of Agriculture
JOSEPH R. MASON ● Hermann Moyse, Jr./Louisiana Bankers Association Chair of Banking
JEAN McGuire ● William W. Rucks IV Endowed Chair
NACI MOCAN ● Ourso Distinguished Chair in Economics
R. KELLEY PACE ● Louisiana Real Estate Commission Chair of Real Estate
JORG PULLIN ● Hearne Research Chair in Theoretical Physics
JOSE A. ROMAGNOLI ● Gordon A. and Mary Cain Endowed Chair in Chemical Engineering; M. F. Gautreaux/Elhil Corporation Chair in Chemical Engineering
GARY C. SANGER ● Distinguished Chair in Finance
HELmut SCHNEIDER ● Ourso Family Distinguished Professor of Information Systems
H. EDWARD SEIDEL ● Floating Points Systems Chair of Computational Methods
JAMES E. SHELLEY ● Fred Jones Greer, Jr. Endowed Chair in Media Business and Ethics
M. DEK TERRELL ● Freeport McMoRan Corporation Endowed Chair in Economics
ISIAH M. WARNER ● Philip W. West Chair in Air Quality/Environmental Analytical Chemistry
KENNETH M. WEAVER ● Copeland Endowed Chair of Entrepreneurial Studies
VINCENT LEE WILSON ● Claiborne Gasoline Co. Chair of Air Quality and Environmental Toxicology
ANDREZ ROJANOWICZ ● Texas A&M University Chair in Environmental Engineering

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FEREYDOUN AGHAZADEH ● Georgia Gulf Distinguished Professor
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LORI BADE ● Nell S. and Boyd H. McMullan Distinguished Professor in The School of Music
STEVEN A. BARKER ● Evertt D. Besch Professorship in Veterinary Medicine
JOHN R. BATTISTA ● Mary Lou Applewhite Professor
MARK A. BATZER ● Dr. Mary Lou Applewhite Distinguished Professor
ARTHUR G. BEDEIAN ● Ralph & Kacoo Olindo Distinguished Professor of Management; Dan J. Moller Professor in the College of Business
BONNIE D. BELLEAU ● Beverly Griffin Shea LSU Alumni Association Departmental Professor of Human Ecology
RICHARD L. BENGTSON ● Edward McLaughlin Professor for Excellence in Undergraduate Instruction
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WILLIAM BOELHOWER ● Robert Thomas and Rita Wetta Adams Professor
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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
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RICHARD D. WHITE, JR. ● Marjory B. Ourso Center for Excellence in Teaching Professor
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SONJA WILEY PATTON ● Donald Lindley & Ruby Wight Phillips Developing Scholar Professor
ELIZABETH WILLIS ● Elana and Albert LeBlanc Professor in the College of Education

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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.
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- May serve as a member of thesis and dissertation committees but may not chair except by permission of the dean of the Graduate School.
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- Individuals nominated for research affiliate may be appointed to a renewable, three-year term.
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- 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.
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- 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.
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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 AU Coin, 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.

STEVEN BABCOCK, Instructor in Harv.

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. McMillan 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, Utl 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, Everett 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.
RICHARD C. BRUCH, Associate Chair of Undergraduate Studies (Biological Sciences); Associate Professor of Biological Sciences. PhD, University of Delaware.

BONNIE L. BRUGMANN, Assistant Professor of Veterinary Medical Oncology (Department of Veterinary Clinical Sciences). DVM, Mississippi State University; MS, Auburn University.

ROBB T. BRUMFIELD, Associate Professor of Biological Sciences; Assistant Curator, LSU Museum of Natural Sciences. PhD, University of Maryland.

TERESA K. BUCHANAN, Associate Professor of Education (Department of Educational Theory, Policy, and Practice); Adjunct Associate Professor of Human Ecology. PhD, Purdue University.

MOLLY BUCHMANN, Professional-in-Residence, Department of Theatre (Head, Dance Program). MA, LSU.

HUGH W. BUCKINGHAM, Professor of Communication Sciences and Disorders. PhD, University of Rochester.

BLAIR BUCKLEY, Adjunct Professor of Plant, Environmental & Soil Sciences; Red River Research Station. PhD, North Carolina State University.

JULIA D. BUCKNER, Assistant Professor of Psychology. PhD, Florida State University.

STEVEN BUJENOVIC, Staff Physician, Radiation Safety Officer, Director, P.T.G. Imaging Center, Our Lady of the Lake Regional Medical Center, Nuclear Medical Association, Baton Rouge, Louisiana (affiliated with the Department of Physics & Astronomy). MD, Wright State University, Ohio.

HOPE BURAS, Instructor in Education (University Laboratory School). MEd, LSU.

DANIEL J. BURBA, Professor of Veterinary Surgery (Department of Veterinary Clinical Sciences); Veterinary Surgeon. DVM, Auburn University; Diplomate, American College of Veterinary Surgeons.

EUGENE BURRIS, Adjunct Professor of Entomology. MS, Oklahoma State University.

DELBERT BURKETT, Associate Professor of Religious Studies (Department of Philosophy & Religious Studies). PhD, Duke University.

PANAY BURLAND, Instructor in Education (University Laboratory School). MEd, University of South Alabama.

MICHAEL F. BURNETT, J. C. Floyd Endowed Professor of Agriculture; Professor of Human Resource Education (School of Human Resource Education & Workforce Development); Director, School of Human Resource Education & Workforce Development. PhD, The Ohio State University.

ALVIN C. BURNS, Orsso Distinguished Chair of Marketing; College of Business and Retailing Endowed Professor; Professor of Marketing; Chair, Department of Marketing. DBA, Indiana University.

EUGENE BURRIS, Adjunct Professor of Entomology; Research Entomologist, LSU Agricultural Center, Northeast Research Station. St. Joseph, Louisiana. MS, Oklahoma State University.

THOMAS BURRIS, Adjunct Professor of Biological Sciences. PhD, Florida State University.

GREGORY F. BURSAVICH, Instructor in Accounting. MBA, LSU.

ANDREW BURSTEIN, Charles Phelps Manship, Jr. Professor of History; Professor of History. PhD, University of Virginia.

KONSTANTIN BUSH, Assistant Professor in Computer Science. PhD, Rensselaer Polytechnic Institute.

EDWARD W. BUSH, Associate Professor of Plant, Environmental & Soil Sciences. PhD, LSU.

EUGENE BUSSOLATI, Professional-in-Residence (Department of Theatre). MFA, North Carolina School of the Arts.

JONI BUTCHER, Instructor in Communication Studies. PhD, LSU.

LESLIE G. BUTLER, Professor of Chemistry. PhD, University of Illinois, Urbana Champaign.

GARY R. BYERLY, Richard R. and Betty S. Fenton Alumni Professor; Professor of Geology and Geophysics; Associate Dean, College of Basic Sciences. PhD, Michigan State University.

JAMES L. BYO, Carl Prince Matthes Professor; Professor of Music. PhD, Florida State University.

LIDIA BYRD, Instructor in Spanish (Department of Foreign Languages and Literatures). MA, LSU.

NOHARA ADRIANA BYRD, Instructor in Spanish (Department of Foreign Languages and Literatures). MA, LSU.

JAYE. E. CABLE, Associate Professor of Oceanography and Coastal Sciences; Adjunct Professor of Environmental Studies. PhD, Florida State University.

REX H. CAFFEY, Professor of Agricultural Economics and Agribusiness. PhD, LSU.

C. S. STEVE CAI, Roy Paul Daniels Distinguished Professor; Associate Professor of Civil and Environmental Engineering. PhD, University of Maryland.

ZHIIYONG CAI, Research Materials Engineer, USDA Forest Service, Forest Product Lab, Madison WI (affiliated with Department of Renewable Resources). PhD, Purdue University.

DH. HINE CAIN, Associate Professor of Social Work. PhD, University of Tennessee.
H. BARRY DELLINGER, Patrick F. Taylor
Chair in Environmental Impact of Hazardous Waste; Professor of Chemistry; Director; Inter-College Environmental Cooperative. PhD, Florida State University.

WILLIS LANE DELONY, School of Music
Aloysia Landry Barinemo Memorial Endowed Professor; Professor of Music; Director, MFA Jazz Studies. DMA, LSU.

DYDIA DeLYSER, Associate Professor of Geography (Department of Geography & Anthropology). PhD, Syracuse University.

BRIGITTE ASSSFALG DELZELL, Instructor in French Studies. Staatesexamen, University of Tübingen (Germany).

CHARLES N. DELZELL, Professor of Mathematics. PhD, Stanford University.

JANET DEVILLIER, Instructor in Education (University Laboratory School). MEd, LSU.

JAMES H. DIAZ, Adjunct Professor (Department of Pathobiological Sciences); Professor at Health Sciences Center in New Orleans. MD, MHA, DrPH, MPH TM, Tulane University.

CYNTHIA F. DiCARLO, Assistant Professor of Human Ecology. PhD, University of New Orleans.

JONATHON P. DOWLING, Hearne Associate Professor of Mechanical Engineering. PhD, University of Pittsburgh.

RAMACHANDRAN DEVIREDDY, Associate Professor of Mechanical Engineering. PhD, University of Minnesota, Minneapolis.

THOMAS E. DIAMOND, Librarian. MLS, University of Kentucky.

PETER DIENER, Assistant Professor (Research) of Physics and Astronomy; Assistant Professor (Research), Center for Computational and Technology, PhD, University of Texas, Austin.

ROBERT DILUTIS, Assistant Professor of Music (Clarinet). BM, The Juilliard School of Music.

JONATHON P. DOWLING, Hearne Research Chair in Theoretical Physics; Professor of Physics and Astronomy. PhD, University of Colorado, Boulder.

RACHEL A. DOWTY, Assistant Professor (Research, Department of Geography & Anthropology); Co-Director, Program in Disaster Science & Management. PhD, Remselaer Polytechnic Institute.

SIXMEL D. DOUGHERTY, Assistant Professor of Education (University Laboratory School). MEd, Northwestern University.

MARGARET-MARY SULENTIC DOWELL, Assistant Professor of Education (Department of Educational Theory, Policy and Practice). PhD, University of Iowa.

JOHN IVAN DICKSON, Instructor in Plant, Environmental & Soil Sciences. MS, LSU.

WILLIAM B. DICKINSON, Distinguished Professor of Mass Communication. BA, University of Kansas.

ROBERT DILUTIS, Assistant Professor of Music (Clarinet). BM, The Juilliard School of Music.

JONATHON P. DOWLING, Hearne Research Chair in Theoretical Physics; Professor of Physics and Astronomy. PhD, University of Colorado, Boulder.

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JONATHON P. DOWLING, Hearne Research Chair in Theoretical Physics; Professor of Physics and Astronomy. PhD, University of Colorado, Boulder.

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JONATHON P. DOWLING, Hearne Research Chair in Theoretical Physics; Professor of Physics and Astronomy. PhD, University of Colorado, Boulder.

JONATHON P. DOWLING, Hearne Research Chair in Theoretical Physics; Professor of Physics and Astronomy. PhD, University of Colorado, Boulder.

JONATHON P. DOWLING, Hearne Research Chair in Theoretical Physics; Professor of Physics and Astronomy. PhD, University of Colorado, Boulder.

JONATHON P. DOWLING, Hearne Research Chair in Theoretical Physics; Professor of Physics and Astronomy. PhD, University of Colorado, Boulder.

JONATHON P. DOWLING, Hearne Research Chair in Theoretical Physics; Professor of Physics and Astronomy. PhD, University of Colorado, Boulder.

JONATHON P. DOWLING, Hearne Research Chair in Theoretical Physics; Professor of Physics and Astronomy. PhD, University of Colorado, Boulder.

JONATHON P. DOWLING, Hearne Research Chair in Theoretical Physics; Professor of Physics and Astronomy. PhD, University of Colorado, Boulder.

JONATHON P. DOWLING, Hearne Research Chair in Theoretical Physics; Professor of Physics and Astronomy. PhD, University of Colorado, Boulder.

JONATHON P. DOWLING, Hearne Research Chair in Theoretical Physics; Professor of Physics and Astronomy. PhD, University of Colorado, Boulder.

JONATHON P. DOWLING, Hearne Research Chair in Theoretical Physics; Professor of Physics and Astronomy. PhD, University of Colorado, Boulder.

JONATHON P. DOWLING, Hearne Research Chair in Theoretical Physics; Professor of Physics and Astronomy. PhD, University of Colorado, Boulder.

JONATHON P. DOWLING, Hearne Research Chair in Theoretical Physics; Professor of Physics and Astronomy. PhD, University of Colorado, Boulder.

JONATHON P. DOWLING, Hearne Research Chair in Theoretical Physics; Professor of Physics and Astronomy. PhD, University of Colorado, Boulder.

JONATHON P. DOWLING, Hearne Research Chair in Theoretical Physics; Professor of Physics and Astronomy. PhD, University of Colorado, Boulder.

JONATHON P. DOWLING, Hearne Research Chair in Theoretical Physics; Professor of Physics and Astronomy. PhD, University of Colorado, Boulder.

JONATHON P. DOWLING, Hearne Research Chair in Theoretical Physics; Professor of Physics and Astronomy. PhD, University of Colorado, Boulder.

JONATHON P. DOWLING, Hearne Research Chair in Theoretical Physics; Professor of Physics and Astronomy. PhD, University of Colorado, Boulder.
SYLVIE DUBOIS, Gabrielle Muir Professor; Professor of French Studies; Executive Director, Center for French and Francophone Studies. PhD, Université Laval (France).

DENNIS W. DUFFIELD, Associate Professor of Comparative Biomedical Sciences. DVM, University of Illinois; PhD, University of Missouri, Columbia.

ADELE FRANCES DUFORE, Instructor in Education (University Laboratory School). MEd, University of Southern Mississippi.

SUSAN A. DUMAIS, Associate Professor of Sociology. PhD, Harvard University.

TERRY L. DUMAS, Professor of Animal Science (Department of Animal Sciences). PhD, LSU.

JOHANNA DUNAWAY, Assistant Professor of Mass Communication; Assistant Professor of Political Science. Ph.D., Rice University.

WILLIAM E. DUNCAN, Instructor in Computer Science. MS, University of Tennessee.

ALEXANDER W. DUNLAP, Adjunct Professor of Laboratory Animal Medicine (Department of Veterinary Pathology); Scientist, Lockheed Martin. DVM, LSU; MD, University of Tennessee, College of Medicine.

MATTIEL L. DUNN, Associate Professor of Interior Design. MArch, University of Texas, Austin.

MICHAEL A. DUNN, Associate Professor of Agricultural Economics and Agribusiness; Adjunct Associate Professor of Renewable Natural Resources. PhD, Auburn University.

STEVE DUBLECHAIN, Instructor in Business Law. JD, LSU.

RANDY DURAN, Cain chair in Science, Technological, Engineering, and Mathematical Literacy; Professor of Chemistry. PhD, Université Louis Pasteur (Strasbourg, France).

BARBARA L. DUTROW, A. G. Guemard Professor; Professor of Geology and Geophysics. PhD, Southern Methodist University.

JO DWECK, Adjunct Professor of Chemistry; Professor, School of Chemistry, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil. PhD, Escola Politécnica da Universidade de São Paulo.

JOHN M. DYER, Adjunct Professor of Plant Pathology; Research Chemist, USDA-ARS, Southern Regional Research Center, New Orleans, Louisiana. PhD, LSU.

KRISTINA DYKEMA, Assistant Professor, Landscape Architecture. MArch, University of California, Berkeley.

SUSAN C. EADES, Professor of Veterinary Medicine (Department of Veterinary Clinical Sciences); Veterinary Internist. DVM, LSU; PhD, University of Georgia; Diplomate, American College of Veterinary Internal Medicine.

CONRAD P. EARNEST, Adjunct Assistant Professor of Kinesiology; Assistant Professor, Pennington Biomedical Research Center, Baton Rouge, LA. PhD, Texas Women’s University.

JESSICA EBERHARD, Assistant Professor of Biological Sciences (Research). PhD, Princeton University.

THOMAS L. EBERHARDT, Research Forest Products Technologist, Southern Research Station, USDA Forest Service, Pineville, LA (affiliated with Department of Renewable Natural Resources). PhD, Virginia Polytechnic Institute and State University.

SUSAN M. EDDLESTONE, Associate Professor of Veterinary Medicine (Department of Veterinary Clinical Sciences); Veterinary Internist. DVM, LSU; Diplomate, American College of Veterinary Internal Medicine.

RANDY S. EDDY, Instructor in Kinesiology. MS, Vanderbilt University.

DAVID EDERER, Adjunct Professor of Physics and Astronomy; Professor Emeritus. Tulane University, New Orleans. PhD, Cornell University.

MATTHEW EDMONDS, Professional-in-Residence; Adjunct Instructor of Interior Design; Commercial Design Internors, Baton Rouge. LA. BID, LSU.

CYNTHIA EDMONSTON, Instructor in Education (University Laboratory School). MA, LSU.

J. RENEE EDWARDS, Professor of Communication Studies; Chair, Department of Communication Studies. PhD, Florida State University.

JAY D. EDWARDS, Professor of Geography and Anthropology. PhD, Tulane University.

REBECCA EFFLER, Instructor in Biological Sciences, PhD, LSU.

PIUS EGBELU, Professor of Industrial Engineering (Department of Construction Management & Industrial Engineering). PhD, Virginia Polytechnic Institute and State University.

DENISE EGEA-KUEHNE, L. M. “Pat” and Mildred Harrison Professor in the College of Education; Professor of Education (Department of Educational Theory, Policy, and Practice). PhD, LSU.

LAUREN EGLIN, Elementary Guidance Counselor (University Laboratory School). MEd, LSU.

BRUCE E. EILTS, Professor of Theriogenology (Department of Veterinary Clinical Sciences); Theriogenologist. DVM, MS, University of Minnesota; Diplomate, American College of Theriogenologists.

BRET ELDER, Assistant Professor of Biological Sciences. PhD, University of California, Santa Cruz.

EMILY ELLIOTT, Associate Professor of Psychology. PhD, University of Missouri.

BROOKS B. ELLWOOD, Robey H. Clark Distinguished Professor; Professor of Geology and Geophysics; Adjunct Professor of Geography and Anthropology. PhD, University of Rhode Island.

MOSTAFA ELSEIFI, Assistant Professor of Civil and Environmental Engineering. PhD, Virginia Polytechnic and State University.

PHILIP H. ELZER, Professor of Veterinary Science; Professor of Microbiology and Parasitology (Department of Pathobiological Sciences). PhD, Cornell University.

URSULA EMERY McCLURE, Associate Professor of Architecture. MArch, Columbia University.

ANNETTE S. ENGEL, Assistant Professor of Biological Sciences; Assistant Professor of Geology and Geophysics. PhD, University of Texas, Austin.

FREDERICK M. ENRIGHT, Professor of Pathobiological Sciences. PhD, University of California, Davis.

ELIN S. EPPERSON, Instructor in English. MA, Ball State University.

JORI ERDMAN, Professor of Architecture; Director, School of Architecture. MArch, Columbia University.

EMILY ERIKSON, John H. Bateman Professor; Assistant Professor of Mass Communication. MA, University of Alabama.

NICK ERIKSON, Assistant Professor of Theatre. MFA, California Institute of the Arts, Valencia.

LUIS A. ESCOBAR, Professor of Experimental Statistics. PhD, Iowa State University.

RICARDO Estrada, Professor of Mathematics. PhD, Pennsylvania State University.

FEMI EUBA, Louise & Kenneth Kinney Professor of Theatre; Professor of Theatre; Professor of English (Black Drama and Playwriting). PhD, University of Ife (Nigeria).

CECIL L. EUBANKS, Class of 1942 Alumni Professor; Professor of Political Science. PhD, University of Michigan.

DAWN EVANS, Clinical Associate Professor of Veterinary Pathology (Department of Pathobiological Sciences); Veterinary Pathologist; Diagnostic Pathologist, Louisiana Veterinary Medical Diagnostic Laboratory. DVM, Tuskegee Institute; Diplomate, American College of Veterinary Pathologists.

PATRICIA D. EXNER, Instructor in Education (Department of Educational Theory, Policy, and Practice); Associate Dean, College of Education. PhD, LSU.
CURTIS R. FRIEDEL, Assistant Professor of Human Resource Education (School of Human Resource Education and Workforce Development). PhD, University of Florida.

CAROL FRIEDELAND, Assistant Professor of Construction Management (Department of Construction Management & Industrial Engineering). PhD, LSU.

BRIAN FRY, Professor of Oceanography and Coastal Sciences. PhD, University of Texas at Austin.

MARK W. FRY, Adjunct Instructor in Finance; Partner, Hebert, Spencer, Casimano and Fry, L.L.P. JD, LSU.

CHARLES F. FRYLING, JR., Associate Professor of Landscape Architecture. MLA, Harvard University.

W. KENNETH FULTON, JR., Earlene Nolan Sanders Alumni Professor; Professor of Music. PhD, Texas Tech University.

JAMES R. FUXA, Professor of Entomology. PhD, North Carolina State University.

METTE GAARDE, Associate Professor of Physics and Astronomy. PhD, University of Copenhagen (Denmark).

RICHARD P. GAGE, Instructor in English. PhD, New York University.

FERNANDO GALVEZ, Assistant Professor of Biological Sciences. PhD, McMaster University (Canada).

ROBERT P. GAMBRELL, Professor of Oceanography and Coastal Sciences. PhD, North Carolina State University.

KRISTIN A. GANSLE, Associate Professor of Education (Department of Educational Theory, Policy, and Practice). PhD, University of California.

JAMES C. GARAND, Emogene Pliner Distinguished Professor of Political Science. PhD, University of Kentucky.

RONALD G. GARAY, F. Walker Lottcket, Jr., Distinguished Professor; Mary P. Pointdexter Professor of Mass Communication. PhD, Ohio University.

MATTHEW D. GARCIA, Assistant Professor, School of Animal Sciences. PhD, Washington State University.

EMILE S. GARDINER, Research Forester, USDA Forest Service, Southern Research Station, Stoneville, Mississippi (affiliated with the School of Renewable Natural Resources). PhD, Mississippi State University.

ALEX C. GARN, Assistant Professor of Kinesiology. PhD, University of Indiana.

JAYNE GARNO, Assistant Professor of Chemistry. PhD, Wayne State University.

PAMELA GARRETSON, Instructor. MS, Texas A&M University.

MARY ELIZABETH GARRISON, Professor of Human Ecology; Associate Dean, College of Agriculture. PhD, Iowa State University.

JOSE GARZA, Instructor in Spanish (Department of Foreign Languages & Literatures). PhD, Indiana University.

FREDERIC P. GASCHEN, Professor of Veterinary Medicine (Department of Veterinary Clinical Sciences); Veterinary Internist. DMV, University of Bern (Switzerland); Diplomate, American College of Veterinary Internal Medicine; Diplomate, European College of Veterinary Internal Medicine/Companion Animal.

LORRIE GASCHEN, Associate Professor of Veterinary Diagnostic Imaging (Department of Veterinary Clinical Sciences); Veterinary Radiologist. DVM, University of Florida; PhD, University of Utrecht (Netherlands); Diplomate, European College of Veterinary Diagnostic Imaging.

MARK J. GASIOROWSKI, Professor of Political Science and Interdepartmental Program in International Studies. PhD, University of North Carolina, Chapel Hill.

LEWIS A. GASTON, Associate Professor of Plant, Environmental & Soil Sciences. PhD, University of Florida.

SUZAN N. GASTON, Instructor in Education (Department of Educational Theory, Policy, and Practice). PhD, LSU.

STEPHEN D. GAUNT, Professor of Veterinary Clinical Pathology (Department of Pathobiological Sciences). DVM, LSU; PhD, Texas A&M University; Diplomate, American College of Veterinary Pathologists.

WAYNE M. GAUTHIER, Associate Professor of Agricultural Economics and Agribusiness. PhD, Oklahoma State University.

RANDALL C. GAYDA, Associate Professor of Biological Sciences. PhD, University of Chicago.

BEILEI GE, Assistant Professor of Food Science. PhD, University of Maryland.

JAMES P. GEAGHAN, Professor of Experimental Statistics; Adjunct Professor of Oceanography and Coastal Sciences. PhD, North Carolina State University.

PAULA J. GEISELMAN, Associate Professor of Psychology. PhD, University of California, Los Angeles.

JESSE M. GELLRICH, Professor of English. PhD, State University of New York, Buffalo.

GLEN GENTRY, JR., Assistant Professor, School of Animal Sciences. PhD, LSU.

LAURA R. GENTRY, Instructor in Animal Science (Department of Animal Sciences). PhD, LSU.

ALEXANDER A. GEORGIJEV, Adjunct Associate Professor of Experimental Statistics; Director, Quality Design, American Region, Nokia Mobile Phones, Inc., Irving, Texas. PhD, Technical University of Wroclaw (Poland).

BRIAN J. GERBER, Associate Professor of Public Administration. PhD, SUNY at Stony Brook.

THOMAS W. GETTYS, Adjunct Professor of Human Ecology; Professor of Research, Pennington Biomedical Research Center, Baton Rouge. PhD, Clemson University.

JOSEPH A. GIAIME, Professor of Physics and Astronomy. PhD, Massachusetts Institute of Technology.

JAMES R. GIANNANCO, Instructor in Physics and Astronomy. MS, LSU.

JOHN P. GIBBONS, Adjunct Associate Professor of Physics and Astronomy; Chief of Clinical Physics, Mary Bird Perkins Cancer Center. PhD, University of Tennessee, Knoxville.

TRACY GIEGER, Assistant Professor of Veterinary Medical and Radiation Oncology (Department of Veterinary Clinical Sciences). DVM, LSU; Diplomate, American College of Veterinary Internal Medicine (Companion Animals) and Oncology, American College of Veterinary Radiology (Radiation Oncology).

ANDREAS GIGER, Associate Professor of Music. PhD, Indiana University.

DAN GILL, Associate Professor of Plant, Environmental & Soil Sciences. MS, LSU.

MARIORIE S. GILL, Professor of Clinical Veterinary Medicine (Department of Veterinary Clinical Sciences); Veterinary Clinician. DVM, MS, Iowa State University; Diplomate, American Board of Veterinary Practitioners.

JEFFREY M. GILLESPIE, Martin D. Woodin Endowed Professor; Professor of Agricultural Economics and Agribusiness. PhD, University of Minnesota.

THOMAS P. GILLIS, Adjunct Associate Professor of Veterinary Immunology (Department of Pathobiological Sciences); Chief of Molecular Biology, Gillis W. Long Hansen's Disease Center. PhD, LSU Medical Center.

DOUGLASS GILMAN, Associate Professor of Chemistry. PhD, Pennsylvania State University.

PATRICK M. GILMER, A.K. and Shirley Barton Professor; Professor of Mathematics. PhD, University of California, Berkeley.

JEFFERY GIMBLE, Adjunct Professor of Biological Sciences; Adjunct Full Professor of Veterinary Clinical Sciences. MD, Yale University.

GARY G. GINTNER, Associate Professor of Education (Department of Educational Theory, Policy, and Practice). PhD, University of Southern Mississippi.

R. KAJ GITTINGS, Assistant Professor of Economics. PhD, Cornell University.

GLORIA GLADMAN, Instructor in English. MA, LSU.

EVANNA L. GLEASON, Associate Professor of Biological Sciences. PhD, University of California, Davis.

LARA GLENUM, Assistant Professor of English. PhD, University of Georgia.
J. SAMUEL GODBER, Horace J. Davis
Endowed Professor; Professor Food Science; Professor of Human Ecology.
PhD, University of Missouri, Columbia.
ROBERT A. GODKE, Boyd Professor;
Professor of Animal Science (Department of Animal Sciences). PhD, University of Missouri, Columbia.
ZACK GODSHALL, Professional in
Residence Department of English. MFA
University of California-Los Angeles.
ROBERT KIRBY GOIDE, William B.
Dickinson Distinguished Professor in Journalism; Professor of Mass Communication; Professor of Political Science. PhD, University of Kentucky.
KEITH A. GONTHIER, Associate Professor of Mechanical Engineering. PhD, University of Notre Dame.
GABRIELA GONZÁLEZ, Professor of
Physics and Astronomy. PhD Syracuse University.
ANGELETTA GOURDINE, Associate
Professor of English. PhD, Michigan State University.
REBECCA GOUVIER, Instructor of
Communication Sciences & Disorders. MA, University of Memphis.
W. DREW GOUVIER, Professor of Psychology. PhD, Memphis State University.
ALISON GRAHAM-BERTOLINI, Instructor of English. PhD, LSU.
CHARLES J. GRAHAM, Adjunct Associate
Professor of Plant, Environmental & Soil Sciences; Associate Professor, Pecan Research Station. PhD, Clemson University.
SAUNDRA A. GRANGER, Instructor in
English. MA, University of Houston.
MARK GRANT, Adjunct Instructor in Mass Communication; Director, CBS Sports, Baton Rouge, Louisiana. BA, LSU.
KENNETH A. GRAVOIS, Adjunct
Professor of Plant, Environmental & Soil Sciences; Professor and Resident Director, St. Gabriel/Sugar Research Station, St. Gabriel, Louisiana. PhD, LSU.
KAROLA J. GRAY, Instructor in
Communication Sciences and Disorders. MA, LSU.
ROBERT GRAY, Edith Kilgore Kirkpatrick
School of Music Endowed Professor; Professor of Music. MA, California State University.
THOMAS GRECKHAMER, Penniman
Developing Scholar; Assistant Professor of Management. PhD, University of Florida.
CHRISTOPHER C. GREEN, Assistant
Professor of Renewable Natural Resources. PhD, Southern Illinois University.
GARY M. GREENE, Adjunct Assistant
Professor of Veterinary Medicine (Department of Veterinary Clinical Sciences); Veterinarian, Greene, Lewis, and Associates, Inc., Covington, Louisiana. DVM, LSU.
FRANK L. GREENWAY, Adjunct Professor of Human Ecology: Medical Director and Professor, Pennington Biomedical Research Center, Baton Rouge. MD, University of California at Los Angeles School of Medicine.
BRYAN GREENWOOD, Instructor in Management. MBA. LSU.
CHRISTOPHER GREGG, Instructor in
Biological Sciences. PhD, Rutgers University.
JAMES M. GREGORY, Adjunct Professor of Biological and Agricultural Engineering; Professor Emeritus of Civil Engineering, Texas Tech University. PhD, Iowa State University.
MARY JUDITH GREMILLION, Instructor in Education (University Laboratory School). MA, LSU.
FRANK M. GRESHAM, Professor of Psychology. PhD, University of South Carolina.
STEPHANIE HOUSTON GREY, Assistant Professor of Communication Studies. PhD, Indiana University.
GREGORY L. GRIFFIN, George H. Nusloch II Endowed Professor of Chemical Engineering. PhD, Princeton University.
JAMES L. GRIFFIN, Lee F. Mason LSU Alumni Association Departmental Professor in the College of Agriculture; Professor of Plant, Environmental & Soil Sciences. PhD, Pennsylvania State University.
LINDA S. GRIFFIN, Associate Librarian. MLIS, LSU.
JANICE K. GRIMES, Professional in Residence (Collaborative Piano). MM, LSU.
MICHAEL D. GRIMES, Professor of Sociology. PhD, University of Texas, Austin.
WILLIAM F. GRIMES, Emitee E. and David D. White Alumni Association Departmental Professor; Professor of Music. DMA, University of Rochester.
PAULA M. GRIMLEY, Instructor in Education (University Laboratory School). MED. LSU.
CASEY C. GRIMM, Adjunct Professor of Food Science: Research Chemist, USDA, ARS, SRRC, New Orleans, Louisiana. PhD, The Florida State University.
KEVIN T. GROBMAN, Assistant Professor of Psychology. PhD, The Pennsylvania State University.
LES GROOM, Research Forest Products Technologist, LSU Agricultural Center, Louisiana Cooperative Extension Service (affiliated with the School of Renewable Natural Resources). PhD, Oregon State University.
AMY M. GROOTERS, Professor of Veterinary Medicine (Department of Veterinary Clinical Sciences); Veterinary Internist. DVM, Iowa State University; Diplomate, American College of Veterinary Internal Medicine.
CATHERIN GROSDEMAN-BILLIARD, Adjunct Professor of Chemistry; Professor of Chemistry, Université de Strasbourg, Strasbourg, France. PhD, Université de Reims-Champagne-Ardenne (France).
DONALD E. GROTH, Adjunct Associate
Professor of Plant Pathology and Crop Physiology; Professor of Plant Pathology, Rice Research Station, Crowley, Louisiana. PhD, Iowa State University.
ANNE GROVE, Associate Professor of Biological Sciences. PhD, Copenhagen University (Denmark).
GUOXIANG GU, F. Hugh Coughlin/CLECO Distinguished Professor; Professor of Electrical and Computer Engineering. PhD, University of Minnesota.
ANNROSE M. GUARINO, Associate Professor of Human Ecology. PhD, LSU.
DEBBIE GUEDRY, Instructor in Education
(Department of Educational Theory, Policy, and Practice). MEd, LSU.
FREDERICK I. GUENDEL, JR. Professor of Aerospace Studies. MBA, Florida State University; Master of Strategic Studies, Air University.
FELIX GUERRERO, Adjunct Professor of Entomology; Research Physiologist, USDA, Agricultural Research Service, Kerrville, Texas (affiliated with the Department of Entomology). PhD, Texas A&M University.
MARIA ANTONIETA GUERRERO-PLATA, Assistant Professor of Pathobiological Sciences (Department of Pathobiological Sciences). PhD, Universidad nacional Autonoma de Mexico.
MELODY M. GUICHET, Emogene Pliner Professorship in Art; Professor of Art. MFA, Temple University.
JULIE GUIDRY, Assistant Professor of Marketing. PhD, Texas A & M University.
KURT M. GUIDRY, Professor of Agricultural Economics & Agribusiness. PhD, Oklahoma State University.
GAIL GUILLOT, Instructor in Education (University Laboratory School). MA, LSU.
JUDY GUILLOT, Teaching Associate
(University Laboratory School). BS, LSU.
KAREN GUILLOT, Instructor in Education
(University Laboratory School). PhD, LSU.
BARBARA F. GULLOTT, Instructor in Computer Science. MS, University of Southwestern Louisiana.
CECILE C. GUIN, Associate Professor of Social Work. PhD, University of Texas at Arlington.
BAHADIR GUNTURK, Associate Professor of Electrical and Computer Engineering. PhD, Georgia Institute of Technology.
SHENGMIN GUO, Assistant Professor of Mechanical Engineering. PhD, University of Oxford (England).
JILL JENKINS, Adjunct Assistant Professor of Renewable Natural Resources; Research Microbiologist/Lab Manager, National Wetlands Research Center, Lafayette, Louisiana. PhD, Memphis State University.

WILLIAM L. JENKINS, Professor of Comparative Biomedical Sciences; Acting Chancellor. Louisiana State University. MMedVet, University of Pretoria (South Africa); PhD, University of Missouri; Fellow, American Academy of Veterinary Pharmacology and Therapeutics; Fellow, American Academy of Veterinary and Comparative Toxicology.

BRUCE F. JENNY, Professor of Animal Science; D.L. Evans Professorship in Dairy Sciences. PhD, Virginia Polytechnic Institute and State University.

KATHARINE A. JENSEN, Associate Professor of French Studies. PhD, Columbia University.

YONGICK JEONG, Assistant Professor, Manship School of Mass Communication. PhD, University of North Carolina, Chapel Hill.


DENNIS JESSE, Assistant Professor of Music. MM, Bowling Green State University.

SAMITHAMBY JEYSALEEN, Assistant Professor, Department of Pathobiological Sciences. PhD, University of Minnesota.

SHANTENU JHA, Adjunct Assistant Research Professor in Computer Science. PhD, Syracuse University.

RONGYING JIN, Associate Professor of Physics and Astronomy. PhD, ETH (Swiss Federal Institute of Technology, Zurich).

TAO JIN, Assistant Professor, School of Library and Information Science. PhD, McGill University, Montreal, Canada.

CHRISTOPHER K. JOHNS, Professor of Art. MFA, Stanford University.

BONITA JOHNSON, Instructor in Education (University Laboratory School). BS, LSU.

CHARLES E. JOHNSON, Professor of Plant, Environmental & Soil Sciences. PhD, LSU.

CRYSTAL N. JOHNSON, Assistant Professor of Environmental Sciences. PhD, University of Alabama at Birmingham.

EARL C. JOHNSON, Specialist, Louisiana Cooperative Extension Service, LSU, Baton Rouge (affiliated with the School of Human Resource Education & Workforce Development). PhD, LSU.

GERALDINE H. JOHNSON, Associate Professor of Human Resource Education (School of Human Resource Education & Workforce Development). PhD, LSU.

JENELL JOHNSON, Assistant Professor of English. PhD, Penn State University.

JILL R. JOHNSON, Professor of Veterinary Medicine (Department of Veterinary Clinical Sciences); Veterinary Internist. DVM, MS, University of Minnesota; Diplomate, American College of Veterinary Internal Medicine; Diplomate, American Board of Veterinary Practitioners (Equine Practice).

LISA JOHNSON, Assistant Professor of Psychology (Professional Practice). PhD, LSU.

RICHARD JOHNSON, Research Agronomist, Sugarcane Research Unit, USDA-ARS-SRRC, Houma, Louisiana (affiliated with the Department of Agronomy and Environmental Management). PhD, University of Delaware.

SETH J. JOHNSON, Professor of Entomology. PhD, Texas A&M University.

SHELDON A. JOHNSON, Adjunct Assistant Professor of Physics and Astronomy; Medical Director, Mary Bird Perkins Cancer Center, Baton Rouge. MD, University of Mississippi Medical School.

STEPHANIE W. JOHNSON, Instructor in Veterinary Medicine (Office of Student and Academic Affairs, School of Veterinary Medicine/Department of Veterinary Clinical Sciences). MSW, LSU; LCSW, Louisiana State Board of Certified Social Work Examiners.

WARREN W. JOHNSON, Professor of Physics and Astronomy. PhD, Rutgers University.

ANN D. JOLISSAINT, Instructor in Biological Sciences. MACT, University of Tennessee.

ELIZABETH H. JOLLY, Instructor in Education (University Laboratory School). MED, LSU.

JENNIFER L. JOLLY, Assistant Professor of Education (Department of Educational Theory, Policy and Practice). PhD, Baylor University.

ASHLEY JONES-BODIE, Visiting Assistant Professor in Communication Studies. PhD, Pennsylvania State University.

ELI JONES, E. J. Oruso Distinguished Professor of Business; Dean, E.J. Oruso College of Business. PhD, Texas A&M University.

FARRELL WILSON JONES, Associate Director, LSU CADGIS Laboratory, Baton Rouge, Louisiana. (affiliated with the Department of Geography and Anthropology). MS, LSU.

GLENN J. JONES, Adjunct Associate Professor of Psychology; Associate Professor, Department of Family Medicine, Earl K. Long Medical Center, Baton Rouge. PhD, LSU.

FRANK JORDAN, Associate Professor, Department of Biological Sciences, Loyola University, New Orleans. (Affiliated with Department of Oceanography and Coastal Sciences). PhD, University of Florida.

BORYUNG JU, Associate Professor of Library and Information Science. PhD, Florida State University.

GEORGE JUDY, Associate Professor of Theatre; Head, Undergraduate Performance, Department of Theatre. MFA, Florida State University.

WENDY A. JUMONVILLE, Instructor in Communication Sciences and Disorders. MS, Purdue University.

ASHLEY R. JUNEK, Assistant Dean for Academic Programs, E. J. Oruso College of Business; Instructor in business Administration. PhD, LSU.

NANCY JURASIŃSKI, Instructor in Education (University Laboratory School). MED, LSU.

CAROLE L. JURKIEWICZ, Woman’s Hospital Distinguished Professor of Healthcare Management; Associate Professor of Public Administration. PhD, University of Missouri, Kansas City.

DUBRAVKO JUSTIC, Professor of Oceanography and Coastal Sciences. PhD, University of Zagreb (Croatia).

ROBERT T. JUSTIS, Oruso Professor of Entrepreneurial Studies; Professor of Management. DBA, Indiana University.

MARIO JUVES, Instructor in Education (University Laboratory School). MED, LSU.

BENJAMIN KAHAN, Assistant professor in English; Assistant professor of Women’s & Gender Studies. PhD, University of Pennsylvania.

HARMUT KAISER, Adjunct Assistant Professor of Computer Science. PhD, Chemnitz University of Technology (Germany).

MARK KAISER, Associate Professor Research, Energy Studies. PhD, Purdue University.

MICHAEL KALLER, Assistant Professor of Renewable Natural Resources (Research). PhD, LSU.

SEUNG KAM, Donald W. & Gayle A. Keller Distinguished Professor; Assistant Professor of Petroleum Engineering. PhD, University of Texas.

RODGER L. KAMENETZ, Professor of English; Professor of Religious Studies (Department of Philosophy & Religious Studies). MA, Stanford University.

YOSHINORI KAMO, Associate Professor of Sociology. PhD, University of Washington.

YUMING KANG, Research Assistant professor of Comparative Biomedical Sciences. PhD, Shantxi Medical University, China; MD, Shantxi Medical College, China.

RAIGOPAL KANNAN, Associate Professor of Computer Science. PhD, University of Denver.

LAURENCE KAPTAIN, Penniman Family Professor of Music; Dean, College of Music & Dramatic Arts. DMA, University of Michigan.

TOMMY KARAM, Instructor in Marketing. PhD, LSU.
RONALD F. MALONE, Chevron Professor of Engineering; Professor of Civil and Environmental Engineering. PhD, Utah State University.

JOHN A. MALVETO, Associate Professor of Art. MFA, Arizona State University.

J. KATHE MANAGAN, Assistant Professor of Anthropology (Department of Geography and Anthropology). PhD, New York University.

MARY H. MANHEIN, Professional-in-Residence (Department of Geography & Anthropology); Director, LSU FACES Laboratory. MA, LSU.

ROBERT T. MANN, Manship Chair; Scripps Howard Professor of Media and Public Affairs; Professor of Mass Communication. PhD.

ROBBIE MANN, Adjunct Assistant Professor of Geography & Anthropology; Southeastern Regional Archaeologist, LSU Museum of Natural History. PhD, State University of New York, Binghamton.

SUZANNE L. MARCHAND, Professor of History. PhD, University of Chicago.

DANIEL B. MARIN, Instructor in Management. PhD, University of Iowa.

LOREN D. MARKS, Associate Professor of Human Ecology. PhD, University of Delaware, Newark.

NATHAN J. MARKWARD, Adjunct Assistant Professor of Experimental Statistics; Assistant Professor, Division of Population Health and Prevention Studies, Pennington Biomedical Research Center. PhD, LSU Health Sciences Center.

CATHY S. MARSHALL, Associate Professor of Landscape Architecture. MLA, Harvard University.

ANN MARTIN, Instructor in English. PhD, LSU.

AMY MARTIN, Teaching Associate (University Laboratory School). BS, LSU.

BENJAMIN F. MARTIN, Kathryn. Lewis and Benjamin Price Professorship in History; Professor of History. PhD, University of North Carolina, Chapel Hill.

MARK MARTIN, Associate Librarian. MLIS, University of Texas, Austin.

MICHAEL J. MARTIN, Assistant Professor of Mechanical Engineering. PhD, University of Michigan.

ROY J. MARTIN, Gordon D. Cain Endowed Chair of Agriculture; Professor of Human Ecology. PhD, University of California, Davis.

DENNIS MARTINEZ, Instructor in Italian (Department of Foreign Languages and Literatures). MA, Middlebury College.

NELSON MARTINEZ, Instructor in Spanish (Department of Foreign Languages & Literatures). MA, LSU.

LAURA MARTINS, Associate Professor of Spanish (Department of Foreign Languages & Literatures). PhD, University of Maryland.

JACOB MARUCCI, Instructor in Kinesiology. MS, University of Alabama.

BRIAN D. MARX, Professor of Experimental Statistics. PhD, Virginia Polytechnic Institute and State University.

PRESTON MARX, Adjunct Professor of Pathobiological Sciences; Chair, Division of Microbiology and Immunology, Tulane Primate Research Center, Covington, Louisiana; Professor, Department of Tropical Medicine, Tulane University Health Sciences Center, New Orleans, Louisiana. PhD, LSU Medical Center.

LUIGI G. MARZILLI, William White Tison Distinguished Professor of Chemistry; Professor of Chemistry. PhD, The Australian National University (Australia).

HENRY MASCAGNI, Adjunct Professor of Plant, Environmental & Soil Sciences; Professor, Northwest Research Station, St. Joseph, Louisiana. PhD, North Carolina State University.

JOSEPH R. MASON, Hermann Moyse, Jr./Louisiana Bankers Association Endowed Chair of Banking; Associate Professor of Finance. PhD, University of Illinois.

MICHELLE A. MASSÉ, Director, Program in Women’s and Gender Studies; Professor of English; Professor of Women’s and Gender Studies. PhD, Brown University.

MICHAEL MATERNE, Instructor in Plant, Environmental & Soil Sciences. BS, McNeese State University.

F. NEIL MATHEWS, Professor of Education (Department of Educational Theory, Policy, and Practice); Vice Chancellor for Student Life and Academic Services. PhD, University of Connecticut.

ROBERT C. MATHEWS, Professor of Psychology; Chair, Department of Psychology. PhD, Yale University.

KENT MATHWSON, Associate Professor of Geography and Anthropology. PhD, University of Wisconsin, Madison.

JOHNNY L. MATSON, Professor of Psychology. PhD, Indiana State University.

JAMES M. MATTHEWS, Professor of Physics and Astronomy. PhD, University of Wisconsin, Madison.

KENNETH L. MATTHEWS, II, Associate Professor of Physics and Astronomy. PhD, The University of Chicago.

RUSSELL A. MATTHEWS, Assistant Professor of Psychology. PhD, University of Connecticut.

ISABEL MATUS, Instructor in Spanish (Department of Foreign Languages and Literatures). MA, LSU.

MARCHITA B. MAUCK, Professor of Art. PhD, Tulane University.

ANDREW W. MAVERICK, Dr. Philip W. & Foymae Kelso West Distinguished Professor of Chemistry; Chair, Department of Chemistry. PhD, California Institute of Technology.

JOHN R. MAY, Donald and Norma Nash McClure Alumni Professor; Professor of English; Professor of Religious Studies (Department of Philosophy & Religious Studies). PhD, Emory University.

SANDRA MAY, Extension Associate of Human Ecology, MS, LSU.

MICHAEL MCA�ELLY, Adjunct Instructor in Electrical Engineering; President, PCS 2000, Baton Rouge, Louisiana. MS, Mississippi State University.

NELL W. MCA�ELLY, Instructor in Mathematics. MEd, LSU.

MATTHEW MCBRIDE-DALINE, Assistant Professor of Music. MM, Yale University.

ROBIN L. McCARLEY, Barbara Womack Alumni Professor of Chemistry; Professor of Chemistry. PhD, University of North Carolina.

KEVIN S. MCCARTER, Assistant Professor of Experimental Statistics. PhD, Kansas State University.

DOROTHY McCaUGHEY, Instructor in English. MA, Rutgers University.

CHARLES T. McCÂULEY, Assistant Professor of Equine Surgery (Department of Veterinary Clinical Sciences); Veterinary Surgeon. DVM, Texas A&M University. Diplomate, American Board of Veterinary Practitioners; Diplomate, American College of Veterinary Surgeons.

WILLIAM McCLAIN, Professor, LSU Agricultural Center Rice Research Station, Crowley, Louisiana (affiliated with the Department of Renewable Natural Resources). PhD, Texas A&M University.

MALCOLM McCLAY, Associate Professor of Art. MFA, The Ohio State University.

VALERIE McCONNELL, Instructor in Education (University Laboratory School). MA, LSU.

REBECCA S. McCONNICO, Associate Professor of Veterinary Medicine (Department of Veterinary Clinical Sciences); Veterinary Internist. DVM, LSU; PhD, North Carolina State University; Diplomate, American College of Veterinary Internal Medicine.

MICHAEL E. MccORMICK, Adjunct Associate Professor of Dairy Science; Associate Professor, Southeast Research Station, Franklin, Louisiana. PhD, Virginia Polytechnic Institute and State University.

MOLLY E. McCoy, Instructor in Biological Sciences. MS, University of North Texas.

DENNIS M. McCURRIN, Professor of Veterinary Surgery (Department of Veterinary Clinical Sciences); Veterinary Surgeon. DVM, Iowa State University; Diplomate, American College of Veterinary Surgeons.

GARRETT B. McCutCHAN, Instructor in Italian (Department of Foreign Languages & Literatures). PhD, Kent State University.
LOUAY N. MOHAMMAD, Irma Louise Rush Stewart Professor; Professor (Research) of Civil and Environmental Engineering. PhD, LSU.

BRIJ MOHAN, Professor of Social Work. PhD, Lucknow University (India).

HARRY M. MOKEBA, Instructor in Political Science. PhD, University of South Carolina.

DORIN MOLDOVAN, Associate Professor of Mechanical Engineering. PhD, West Virginia University.

CHRISTIAN MOLIDOR, Dean and Professor of Social Work. PhD, University of Illinois, Chicago.

CHARLES J. MONLEZUN, Associate Professor of Experimental Statistics. Phd, Tulane University.

PAMELA A. MONROE, Professor of Social Work; Adjunct Professor of Human Ecology. PhD, University of Georgia.

W. TODD MONROE, Mr. And Mrs. C. W. Armstrong, Jr. Professor; Associate Professor of Biological and Agricultural Engineering. PhD, Vanderbilt University.

MICHAEL W. MOODY, Professor of Food Science; Specialist, Louisiana Cooperative Extension Service. PhD, LSU.

PAUL I. MOONEY, Assistant Professor of Education (Department of Educational Theory, Policy, and Practice). PhD, University of Nebraska, Lincoln.

SANDRA T. MOONEY, Associate Librarian. MS, LSU.

D. WESLEY MOORE, Adjunct Instructor in Finance; Partner, Cook, Moore & Associates. MS in Finance, LSU.

RUSTIN M. MOORE, Adjunct Professor of Veterinary Clinical Science; Veterinary Surgeon. DVM, PhD. The Ohio State University; Diplomate, American College of Veterinary Surgeons.

STEVE MOORE, Adjunct Professor of Plant, Environmental & Soil Sciences; Professor, Dean Lee Research Station, Alexandria, Louisiana. PhD, University of Arkansas.

LINDA R. MOORHOUSE, Assistant Professor of Music, College of Music and Dramatic Arts; Associate Director of Bands. DMA, University of Washington.

THOMAS E. MOORMAN, Adjunct Professor of Renewable Natural Resources; Director, Conservation Planning, Ducks Unlimited, Ridgeland, Mississippi. PhD, State University of New York.

SURESH MOORTHY, Professional in Residence, Civil and Environmental Engineering. PhD, The Ohio State University.

JORGE MORALES, Professor of Mathematics. PhD, University of Geneva (Switzerland).

WALTER A. MORALES, Instructor in Finance. MBA, LSU.

DIANA MORGAN, Instructor in Education (University Laboratory School). MEd, LSU.

ROBERTO N. MOREIRA, Adjunct Assistant Professor of Dairy Science; Assistant Professor, Southeast Research Station, Franklinton, Louisiana. PhD, Federal University of Minas Gerais (Brazil).

RICHARD MORELAND, Professor of English. PhD, University of California, Berkeley.

JUANA MORENO, Assistant Professor of Physics and Astronomy. PhD, Rutgers University.

CHRISTOPHER N. MORES, Assistant Professor, Department of Pathobiological Sciences. ScD, Harvard University.

ALAN MORGAN, Professor of Entomology. MS, LSU.

TIMOTHY W. MORGAN, Assistant Professor of Veterinary Clinical Medicine (Department of Pathobiological Sciences). DVM, University of Missouri, Columbia; PhD, Iowa State University.

WENDY MORGAN, Instructor in Communication Studies. MA, LSU.

JAMES V. MORONEY, Glenda Wooters Streve Memorial LSU Alumni Association Departmental Professor in the College of Basic Sciences; Professor of Biological Sciences. PhD, Cornell University.

PATRICIA M. MORONEY, Instructor in Biological Sciences. PhD, Cornell University.

BORIS MOROZOV, Assistant Professor of Public Administration. PhD, University of Nebraska at Omaha.

ANDREA E. MORRIS, Assistant Professor of Spanish (Department of Foreign Languages and Literatures). PhD, Washington University.

D. KEITH MORRIS, Adjunct Assistant Professor of Biological and Agricultural Engineering; Adjunct Assistant Professor of Plant, Environmental & Soil Sciences; Assistant Professor of College of Agriculture and Technology, Arkansas State University-Jonesboro. PhD, Purdue University.

CHRISTOPHER MORRISON, Adjunct Assistant Professor of Human Ecology; Assistant Professor, Pennington Biomedical Research Center, Baton Rouge. LA. PhD, University of Missouri-Columbia.

CLOVIS MORRISON, Adjunct Professor of Civil and Environmental Engineering; Morrison & Associates, Baton Rouge, LA. BS, LSU.

DON MORRISON, Associate Librarian. MLIS, LSU.

WALTER C. MORRISON, III, Adjunct Professor of Plant, Environmental & Soil Sciences; Director, South Central Region, St. Gabriel, Louisiana. PhD, Oklahoma State University.

GEORGE MOSS, Instructor of Finance. MS, LSU.

ELIZABETH MOSSOP, Professor of Landscape Architecture; Director, Robert Reich School of Landscape Architecture. MUP, Macquarie University (Australia).

CARL E. MOTSENBOCKER, Professor of Plant, Environmental & Soil Sciences. PhD, North Carolina State University.

DANIEL MOWREY, Instructor in Chemical Engineering. MS, University of Illinois.

LAURA MOYER, Assistant Professor of Political Science. PhD, University of Georgia.

CLIFFORD MUGNIER, Instructor in Civil and Environmental Engineering. BA, Northwestern State University.

SUPRATIK MUKHOPADHYAY, Assistant Professor of Computer Science. PhD, Max Planck Research Institute & University of Saarlandes.

KEVIN V. MULCAHY, Sheldon Beychok Endowed Professor of Political Science; Professor of Political Science. PhD, Brown University.

LAURA MULLEN, Professor of English. MFA, University of Iowa.

ROCHELLE MULLENIX, Instructor in Kinesiology. MS, Florida State University.

NORIMOTO MURAI, Professor of Crop Physiology (Department of Plant Pathology & Crop Physiology). PhD, University of Wisconsin, Madison.

ELLEN P. MURPHY, Professor of Human Ecology; Associate Director, School of Human Ecology. PhD, LSU.

JAMES MURPHY, Associate Professor of Theatre. MFA, Yale School of Drama.

MICHAEL C. MURPHY, Professor of Mechanical Engineering. PhD, Massachusetts Institute of Technology.

ANGELA MURRAY, Middle School Guidance Counselor (University Laboratory School). MA, LSU.

KERMIT MURRAY, Professor of Chemistry. PhD, University of Colorado, Boulder.

GERALD O. MYERS, Professor of Plant, Environmental & Soil Sciences. PhD, University of Missouri.

JUDITH D. MYHAND, Instructor in Human Ecology. MS, LSU.

RANDALL MYNATT, Adjunct Assistant Professor of Biological Sciences; Assistant Professor of Research, Pennington Biomedical Research Center, Baton Rouge. PhD, University of Tennessee.

CATHY MYRICK, Instructor in Education (University Laboratory School). MS, Towson University.

ISABELINA NAHMENS, Assistant Professor of Construction Management (Department of Construction Management & Industrial Engineering). PhD, University of Central Florida.

STEVEN NAMIKAS, Associate Professor of Geography (Department of Geography & Anthropology). PhD, University of Southern California.
JOHN PYZNER, Adjunct Professor of Plant, Environmental & Soil Sciences; Associate Professor, Pecan Research Station. PhD, Oklahoma State University.

YITSHAK M. RAM, Wooley Professorship in Engineering Mechanics; Professor of Mechanical Engineering. PhD, Israel Institute of Technology (Israel).

ARAVAMUDHAN RAMAN, Chevron Professor of Engineering; Professor of Mechanical Engineering. Dr. rer. nat., Technische Hochschule, Stuttgart (Germany).

JACQUES RANJANRANJANUJAM, John E. and Beatrice L. Ritter Distinguished Professor; Professor of Electrical and Computer Engineering. PhD, The Ohio State University.

ALISTAIR RAMSAY, Adjunct Professor of Pathobiological Sciences (Department of Pathobiological Sciences). PhD, University of Otago, New Zealand.

THOMAS C. REDD, Postdoctoral Research, Department of Mathematics, LSU, Baton Rouge, LA (affiliated with Department of Mathematics). PhD, Brown University.

DONNA H. REDMANN, Professor of - Human Resource Education (School of Human Resource Education & Workforce Development). PhD, Florida State University.

DONALD P. REED, Adjunct Associate Professor of Renewable Natural Resources; Associate Professor, Idlewild Research Station, Clinton, Louisiana. PhD, LSU.

T. GILMOUR REEVE, Helen "Bessie" Silverberg Pliner Professor of Kinesiology; Chair, Department of Kinesiology. PhD, Texas A&M University.

HELEN REGIS, Associate Professor of Anthropology (Department of Geography & Anthropology). PhD, Tulane University.

CLAUDETTE H. REICHEL, Professor of Biological & Agricultural Engineering. EdD, LSU.

KENNETH J. REICHET, Ernst & Young Alumni Distinguished Professor; Assistant Professor of Accounting. PhD, University of Missouri-Columbia.

ROBERT C. REIGH, Professor of Renewable Natural Resources; Resident Director, Aquaculture Research Station. PhD, Texas A&M University.

JANE REILAND, Instructor. PhD, Johns Hopkins University.

COREY REIMONENQ, Teaching Associate (University Laboratory School). BS, Southern University.

PETER REIN, Professor and Head, Audubon Sugar Institute, Baton Rouge, LA. PhD, University of Natal (South Africa).

JAMES V. REMSEN, JR., John Stauffer Memorial Professor of Entomology. PhD, University of Maryland, College Park (Orchididology). Scuola Internazionale Superiore di Studi Avanzati/Internazionale Superiore di Studi Avanzati/International School for Advanced Studies, Italy. Scuola Internazionale Superiore di Studi Avanzati/International School for Advanced Studies (Italy).

CARLOS RIAZUELLO, Associate Professor of Music (Orchestral Conducting). Advanced Conducting Postgraduate Certificate, Guildhall School of Music & Dance, London.

JOSEPH V. RICAPITO, Joseph S. Yenni Memorial Professor of Italian Studies; Professor of Spanish (Department of Foreign Languages & Literatures). PhD, University of California, Los Angeles.

THOMAS H. RICE, Assistant Professor of Marketing. PhD, University of Florida.
EDWARD RICHARD, Research Agronomist, Sugarcane Research Unit, USDA/ARS, Houma, Louisiana (affiliated with Department of Plant Pathology & Crop Physiology). PhD, University of Illinois.

KATHLEEN RICHARD, Instructor in Education (University Laboratory School), MA, LSU.

EDWARD P. RICHARDS, III, Adjunct Professor of Public Administration; Professor and Director, Program in Law, Science, and Public Health, Hebert Law Center, Baton Rouge, Louisiana. PhD, University of Texas School of Public Health.

HETTIE A. RICHARDSON, William W. & Catherine M. Rucks Professor of Management; Associate Professor. PhD, University of Georgia.

JAMES A. RICHARDSON, John Rhea Alumni Professor; Harris J. and Marie P. Chustz College of Business Endowed Professor; Russell Long Professor; Professor of Economics; Director, Public Administration Institute. PhD, University of Michigan.

JILL RICHARDSON, Teaching Associate (University Laboratory School), BS, Louisiana Tech.

LEONARD F. RICHARDSON, Herbert Huey McElveen Professor; Professor of Mathematics. PhD, Yale University.

MALCOLM RICHARDSON, II, Department of English Dr. J. F. Taylor Endowed Professor; Professor of English. PhD, University of Tennessee.

WILLIAM B. RICHARDSON, Chancellor; Professor of Human Resource Education (School of Human Resource Education & Workforce Development). PhD, University of Missouri.

THOMAS RICKS, Assistant Professor of Education (Department of Educational Theory, Policy and Practice), PhD, University of Georgia.

LAURA M. RIGGS, Assistant Professor of Veterinary Surgery (Department of Veterinary Clinical Sciences); Veterinary Surgeon. DVM, University of Tennessee; PhD, University of Georgia; Diplomat, American College of Veterinary Surgeons.

THOMAS E. RINDERER, Adjunct Professor of Entomology; Supervisory Research Geneticist (USDA-ARS) Honey Bee Breeding, Genetics, and Physiology Laboratory. PhD, The Ohio State University.

DENNIS R. RING, Professor of Entomology. PhD, Texas A&M University.

CHRISTINA A. RIQUELMY, Assistant Librarian. MLS, University of Pittsburgh.

JOHN KEVIN RISK, Associate Professor of Landscape Architecture. MLA, University of Georgia.

JENNIFER RITCHIE, Instructor, School of Animal Sciences. DVM, LSU.

TRUDY L. RITCHIE, Associate Professor of Interior Design; Chair, Department of Interior Design. MArch, University of Texas, Austin.

VICTOR RIVERA-MONROY, Research Assistant Professor, Department of Oceanography and Coastal Sciences. PhD, LSU.

JOSÉ RIVEROS, Adjunct Professor of Chemistry; Professor, Instituto de Química, Universidade de São Paulo, São Paulo, Brazil. PhD, Harvard University.

TRACEY E. RIZZUTO, Assistant Professor of Psychology. PhD, Pennsylvania State University.

GREGORY C. ROBBINS, Adjunct Associate Professor of Dairy Science, School of Animal Sciences; Chief of Research, Formulation and Development, Quantum Food Design, LLC, Coral Gables, FL. PhD, University of Tel Aviv, Israel.

KEVIN ROBBINS, Associate Professor of Geography and Anthropology; Director, Southern Regional Climate Center. PhD, North Carolina State University.

LE RON ROBBINS, Adjunct Professor of Plant, Environmental & Soil Sciences; Professor, Ouachita Parish. PhD, Louisiana University.

BRITTANY ROBERT, Teaching Associate (University Laboratory School). BS, LSU.

BRIAN ROBERTS, Adjunct Assistant Professor of Oceanography and Coastal Sciences; Assistant Professor, Louisiana Universities Marine Consortium (LUMCON), Chauvin. PhD, Cornell University, Ithaca, NY.

JONATHAN ROBERTS, Adjunct Professor of Public Administration; Chief Academic Officer, LSU Health Sciences Center, Health Care Services Division, Baton Rouge, Louisiana. PhD, Tulane University.

ROBIN ROBERTS, Professor of English. PhD, University of Pennsylvania.

KEVIN ROBERTSON, Adjunct Assistant Professor of Biological Sciences. PhD, University of Illinois at Urbana-Champaign.

CANDENCE ROBILLARD, Instructor in Education (University Laboratory School). MED, LSU.

KEITH E. ROBINSON, Assistant Professor of Military Science. MBA, University of New Orleans.

LINDA ROBINSON, Instructor of Human Ecology. PhD, University of Tennessee, Knoxville.

JAMES ROCHA, Assistant Professor of Philosophy (Department of Philosophy and Religious Studies). PhD, University of California at Los Angeles.

JARETT RODRIGUEZ, Instructor in Management. MBA, LSU.

JULIAN DANIEL RODRIGUEZ, Assistant Professor of Veterinary Diagnostic Imaging (Department of Veterinary Clinical Sciences). MVZ, Autonomous University of Queretaro, Mexico; Diplomate, American College of Veterinary Radiology.

ROBERT ROHL, Associate Professor of Geography (Department of Geography & Anthropology). PhD, LSU.

JEAN M. ROHLOFF, Instructor in English. MA, University of Wisconsin, Madison.

FRANK C. ROHWER, George William Barineau, Jr., Professor; Associate Professor of Renewable Natural Resources. PhD, University of Pennsylvania.

EMERALD ROIDER, Assistant Professor of Construction Management (Department of Construction Management & Industrial Engineering). PhD, LSU.

KARL A. ROIDER, Jr., Thomas and Lillian Landrum Alumni Professor; Professor of History. PhD, Stanford University.

JEFFREY ROLAND, Assistant Professor of Philosophy (Department of Philosophy and Religious Studies). PhD., Cornell University.

BROOKE ROLLINS, Assistant Professor of English. PhD, University of South Carolina.

JOSÉ A. ROMAGNOLI, Gordon A. and Mary Cain Endowed Chair in Chemical Engineering; M. F. Gautreaux/Ethyl Corporation Chair in Chemical Engineering; Professor of Chemical Engineering. PhD, University of Minnesota.

ROBERT P. ROMAIRE, Professor of Renewable Natural Resources. PhD, Auburn University.

LUIGI ROMOLO, Assistant Professor (Research Department of Geography and Anthropology). PhD, University of Saskatchewan, Canada.

KENNETH ROSE, Professor of Oceanography and Coastal Sciences. PhD, University of Washington.

ISAAC ROSEN, Adjunct Professor of Physics and Astronomy, Medical Physicist. Mary Bird Perkins Cancer Center. PhD, University of New Mexico.

CATHERINE ROSENFELD, Instructor in Education (University Laboratory School). MS, LSU.

BILLY I. ROSS, Distinguished Professor of Mass Communication. PhD, University of Southern Illinois.

STEVEN K. ROSS, Associate Professor of History. PhD, University of California, Berkeley.

L. LESLIE ROSSO, Buquet & LeBlanc Inc., Distinguished Professor of Commercial Construction; Associate Professor of Construction Management (Department of Construction Management & Industrial Engineering). PhD, LSU.

LAWRENCE J. ROUSE, JR., Associate Professor of Oceanography and Coastal Sciences; Associate Professor in Coastal Studies Institute. PhD, LSU.
PHOEBE ROUSE, Instructor in Mathematics. MED, LSU.
CHARLES H. ROUSSEL, Instructor in Economics. ABD, University of Tennessee.
ROBERT J. ROUX, Instructor in Management. JD, LSU.
WILLIAM C. ROWE, JR., Assistant Professor of Geography (Departments of Geographical and Anthropological Studies). PhD, University of Texas, Austin.
THOMAS J. ROWELL, Adjunct Assistant Professor of Veterinary Medicine (Department of Veterinary Clinical Sciences); Director, University of Southwestern Louisiana, New Iberia Research Center. DVM, LSU.
ALMA F. ROY, Assistant Professor of Veterinary Microbiology & Parasitology/CLinical Specialist (Department of Pathobiological Sciences); Associate Director, Division of Laboratory Animal Medicine. PhD, LSU.
HELI J. ROY, Associate Professor of Human Ecology. PhD, LSU.
ANGELIKA A. ROY-GOLDMAN, Instructor in German (Department of Foreign Languages & Literatures). MA, University of California, Berkeley.
BORIS RUBIN, Professor of Mathematics. PhD, Rostov State University (Russia).
SCOTT S. RUBIN, Adjunct Professor of Communication Sciences and Disorders; Associate Professor, Department of Communication Sciences and Disorders, School of Allied Health Sciences, LSU Medical Center, New Orleans, LA. PhD, University of California, Berkeley.
DOROTHY RUMFELLOW, K-5th Grade Principal (University Laboratory School). MED, LSU.
DUBRAYKA RUPNIK, Instructor of Physics and Astronomy. PhD, LSU.
KREMIR RUPNIK, Instructor of Chemistry. PhD, University of Zagreb, Croatia.
KELLY A. RUSCH, Associate Dean of Research and Diversity, College of Engineering; Formosa Plastics Corporation Endowed Professor; Professor of Civil and Environmental Engineering. PhD, LSU.
FRANK RUSCIANO, Dean of Students (University Laboratory School). MED, Southeastern Louisiana University.
MILTON C. RUSH, Professor of Plant Pathology (Department of Plant Pathology & Crop Physiology). PhD, North Carolina State University.
ADELAIDE M. RUSSO, Professor of French Studies; Director of Comparative Literature. PhD, Columbia University.
MICHAEL F. RUSSO, Associate Librarian. MLIS, LSU.
PAUL S. RUSSO, Roy Paul Daniels Memorial Professor; Professor of Chemistry. PhD, University of Minnesota.
DOUGLAS A. RUTHERFORD, Bryant A. Bateman Distinguished Professor; Professor of Renewable Natural Resources; Director, School of Renewable Natural Resources. PhD, Oklahoma State University.
JEAN RUTHERFORD, Instructor in Russian (Department of Foreign Languages & Literatures). MPhil, University of Kansas.
CANDY RYALS, Teaching Associate Professor (University Laboratory School). MED, LSU.
JENNA RYAN, Assistant Librarian. University of South Carolina.
KIRK A. RYAN, Assistant Professor of Companion Animal Medicine (Department of Veterinary Clinical Sciences); Veterinary Internist. DVM, Colorado State University; Diplomate, American College of Veterinary Internal Medicine.
SUSAN E. RYAN, Professor of Art. PhD, University of Michigan.
JAMES RYON, Associate Professor of Music. MM, The Juilliard School, New York.
C RISTINA M. SABLOV, Associate Professor of Biological and Agricultural Engineering. PhD, North Carolina State University.
JESSICA SAFFELL, Teaching Associate (University Laboratory School). BS, LSU.
DANIEL S. SAGE, Associate Professor of Mathematics. PhD, University of Chicago.
ERNO SAJO, Adjunct Associate Professor of Environmental Studies; Associate Professor of Physics and Astronomy. PhD, University of Lowell.
MICHAEL E. SALASSI, J. Nelson Fairbanks Endowed Professor; Professor of Agricultural Economics and Agribusiness. PhD, Mississippi State University.
PAUL SALLES, Instructor in Public Administration; Vice President, Healthcare Reimbursement Policy, Louisiana Hospital Association, Baton Rouge, Louisiana. MBA, University of New Orleans.
PAUL W. SAMMARCO, Adjunct Professor of Oceanography and Coastal Sciences; Professor, Louisiana Universities Marine Consortium (LUMCON), Chauvin. PhD, State University of New York, Stony Brook.
LINDSAY E. SIMAR SANDERS, Instructor in Finance. MS, LSU.
MEGHAN SANDERS, Assistant Professor, Manship School of Mass Communication. PhD, Pennsylvania State University.
RICHARD D. SANDERS, Assistant Professor of Aerospace Studies. BTM, Peru State College.
KEITH A. SANDIFORD, Professor of English. PhD, University of Illinois, Urbana Champaign.
MATTHEW SANDLER, Instructor of English. PhD, Columbia University.
G. ELLIS SANDOZ, JR., Hermann Moyse, Jr. Professor of Political Science; Professor of Political Science; Director, Eric Voegelin Institute for American Renaissance Studies. Dr.oec.publ., University of Münich (Germany).
JOHANNA SANDBO, Instructor in Classics (Department of Foreign Languages & Literatures). PhD, University of Missouri, Columbia.
GARY C. SANGER, Distinguished Chair in Finance; Charles Clifford Cameron Endowed Distinguished Professor of Finance; Robert Theriot Professor; Professor of Finance. PhD, Purdue University.
DAVID W. SANSON, Adjunct Professor of Animal Science (Department of Animal Sciences); Professor, Rosepine Research Station. PhD, New Mexico State University.
SUDIPTA SARANGI, Gulf Coast Coca Cola Bottling Co., Inc. Distinguished Professor; Associate Professor of Economics. PhD, Virginia Polytechnic Institute and State University.
HUSAIN SARKAR, Professor of Philosophy (Department of Philosophy & Religious Studies). PhD, University of Minnesota.
BHBAB R. SARKER, Elton G. Yates Professor of Engineering; Professor of Industrial Engineering (Department of Construction Management & Industrial Engineering). PhD, Texas A&M University.
MICHAEL SASKA, Adjunct Professor of Biological and Agricultural Engineering; Professor in the Audubon Sugar Institute, Baton Rouge, Louisiana. PhD, Georgia Institute of Technology.
CHARLES E. SASSER, Research Adjunct Professor of Plant, Environmental & Soil Sciences; Research Professor of Oceanography and Coastal Sciences. PhD, LSU.
DANIELE D. SASSER, Professor of Human Ecology. PhD, LSU.
SUBRAMANIAM SATHIHEL, Assistant Professor of Food Science; Assistant Professor of Biological and Agricultural Engineering. PhD, LSU.
DANIEL G. SATTERLEE, Professor of Animal Science (Department of Animal Sciences), PhD, University of Missouri, Columbia.
JOE E. SAUER, Instructor, Department of Chemistry, LSU; Baton Rouge, LA (affiliated with Department of Chemistry). MS, LSU.
KERRY S. SAULEY, Marjory B. Oruso Center for Excellence in Teaching Professor; Instructor in Management. PhD, LSU.
PETER SAULSON, Adjunct Professor of Physics and Astronomy; Professor, Syracuse University. PhD, Princeton University.
EDWARD S. SHIHDEH, Associate Professor of Sociology, PhD, Pennsylvania State University.
POLLAD M. SHIKHALIEV, Assistant Professor of Physics and Astronomy, PhD, Ioffe Physico-Technical Institute, St. Petersburg, Russia.
CHARLES L. SHILLING, Professor of Renewable Natural Resources, PhD, Texas A&M University.
KAORI SHIMIZU, Instructor in Japanese (Department of Foreign Languages and Literatures). MA, Monterey Institute of International Studies.
HAK-CHUL SHIN, Assistant Professor of Civil & Environmental Engineering, PhD, University of Illinois at Urbana.
CHARLES J. SHINDO, Associate Professor of History, PhD, University of Rochester.
KEJIRO SHIOMITSU, Assistant Professor of Veterinary Radiation Oncology (Department of Veterinary Clinical Sciences). BVSc, Azabu University, School of Veterinary Medicine, Japan; Diplomate, American College of Veterinary Radiology (Radiation Oncology).
DANNY SHIPKA, Assistant Professor, Marriage School of Mass Communication, PhD, University of Florida.
CHRISTOPHER SHIPMAN, Instructor in English. MFA, LSU.
STEPHEN P. SHIPMAN, Associate Professor of Mathematics. PhD, University of Arizona.
JOACHIM SINGELMANN, David J. Kriskovich Distinguished Professor; Professor of Agricultural Economics and Agribusiness; Professor of Sociology; Director, Louisiana Population Data Center, PhD, University of Texas, Austin.
RAGHU/WINDER SINGH, Instructor of Plant Pathology, PhD, University of Florida, Gainesville.
GREGORY W. SIEGLES, Assistant Professor of Music (Piano), College of Music and Dramatic Arts. MM, Indiana University, Bloomington.
MARY J. SIRRIDGE, Professor of Philosophy (Department of Philosophy and Religious Studies). PhD, The Ohio State University.
CATHERINE N. SITUMA, Instructor of Chemistry. PhD, LSU.
ALEXANDER SAVAANTZOS, Associate Professor of Electrical and Computer Engineering. PhD, University of Florida.
JOSEPH SKILLEN, Professor of Music. DMA, Michigan State University.
PATRICIA SKINNER, Instructor of Biological and Agricultural Engineering. MS, LSU.
TIMOTHY A. SLACK, Assistant Professor of Sociology. PhD, Pennsylvania State University.
V. CARLOS SLAWSON, JR., Latter & Blum Distinguished Professor in Business Administration; Associate Professor of Finance; Associate Director, Louisiana Real Estate Research Institute; Chair, Department of Finance. PhD, University of Georgia.
MATTHEW SLOCUM, Assistant Professor of Research. PhD, University of Miami.
ANDREW SLUYTER, Associate Professor of Geography (Department of Geography & Anthropology). PhD, University of Texas.
AARON SMITH, Assistant Professor of Biological Sciences. PhD, Purdue University.
CARLOS A. SMITH, JR., Adjunct Associate Professor of Plant, Environmental & Soil Sciences; Associate Professor, Avoyelles Parish. PhD, LSU.
EDWARD SMITH, Associate Professor of Art. MFA, Brooklyn College.
HEATHER SMITH, Assistant Professor of Civil and Environmental Engineering. PhD, Ohio State University.
J. SMITH, Instructor in English. PhD, LSU.
JOHN R. SMITH, Campanile Charities Professor; Associate Professor of Petroleum Engineering. PhD, LSU.
KEVIN M. SMITH, LSU Foundation James C. Bolton Professor; Professor of Chemistry. PhD, University of Liverpool (England).
MARGARET WEBB SMITH, Instructor in English. PhD, University of Arizona.
NICOLE SMITH, Assistant Professor, Manship School of Mass Communication. PhD, University of North Carolina, Chapel Hill.
R. WADE SMITH, Director and Professional-in-Residence (University Laboratory School). PhD, LSU.
STEPHEN SMITH, Adjunct Assistant Professor of Biological Sciences; Adjunct Assistant Professor of Human Ecology; Assistant Professor and Director, Inpatient Metabolic Unit, Molecular Endocrinology Laboratory, Pennington Biomedical Research Center, Baton Rouge. MD, University of Texas Health Science Center, San Antonio.
W. RAMSAY SMITH, Adjunct Professor of Renewable Natural Resources; Head, International Research and Development, Arch Chemicals, Atlanta, Georgia. PhD, University of California, Berkeley.
LAWRENCE J. SMOLINSKY, Professor of Mathematics; Chair, Department of Mathematics. PhD, Brandeis University.
DAVID H. SMYTH, Galante Professor of Music (Music Theory). PhD, University of Texas, Austin.
ELAINE B. SMYTH, Librarian. MLibs, University of Washington.
JENNIFER SNELLGROVE, Instructor in Education (University Laboratory School). MA, McNeese State University.
TARA SNOOK, Assistant Professor of Veterinary Dermatology (Department of Veterinary Clinical Sciences). DVM, Iowa State University.
CHI-LEUNG SO, Assistant Professor of Renewable Natural Resources (Research). PhD, University of Manchester, UK.
DAVID SOBEK, Assistant Professor of Political Science. PhD, Pennsylvania State University.
GARY A. SOD, Assistant Professor of Farm Animal Health Management (Department of Veterinary Clinical Sciences). MA; PhD, University of California, Berkeley; DVM, LSU.
THOMAS SOFRANKO, Associate Professor of Architecture. MArch, Kent State University.
MELINDA A. SOLMON, Roy Paul Daniels Professor of Kinesiology; Professor of Kinesiology. PhD, LSU.
MOSHE SOLOMONOW, Adjunct Professor of Kinesiology; Professor and Director, Biomechanics Division, University of Colorado Health Sciences Center, Aurora, Colorado. PhD, University of California, Los Angeles.
EDWARD SONG, Assistant Professor of Philosophy (Department of Philosophy and Religious Studies). PhD, University of Virginia.
FELICIA WU SONG, Assistant Professor, Manship School of Mass Communication. PhD, University of Virginia.
WEI-LING SONG, Bank One/Chuck McCoy Endowed Distinguished Professor in Finance; Assistant Professor of Finance. PhD, Michigan State University.
STEVEN A. SOPER, Dr. William L. and Patricia H. Senn, Jr., Endowed Professor; Professor of Chemistry; Adjunct Professor of Biological Sciences. PhD, University of Arizona.
MELISSA SORRELLS, Instructor/Athletic Trainer (University Laboratory School). MS, LSU.
WILLIAM J. BLACKMON, Professor Emeritus, Department of Horticulture. PhD, North Carolina State University.

JAMES J. BOLNER, SR., Professor Emeritus, Department of Political Science. PhD, University of Virginia.

MYRTLE S. BOLNER, Librarian Emeritus. MS, LSU.

RALPH F. BOULWARE, Professor Emeritus, Department of Animal Science. PhD, University of Nebraska.

ARNOLD H. BOUMA, Charles T. McCord, Jr., Endowed Chair of Geology and Professor Emeritus, Department of Geology. PhD, University of Utrecht (Netherlands).

ADAM T. BOURGOYNE, JR., Bert Turner Professor Emeritus, Department of Petroleum Engineering. PhD, University of Texas, Austin.

VANCE BOURJAILY, Boyd Professor Emeritus; Professor Emeritus, Department of English. BA, Bowdoin College.

JOSEPH K. BOVA, Professor Emeritus, School of Art. MFA, University of New Mexico.

BERT R. BOYCE, Professor Emeritus, School of Library & Information Science. PhD, Case Western Reserve University.

JOHN W. BRANCH, Professor Emeritus of Biological & Agricultural Engineering. PhD, LSU.

H. DOUGLAS BRAYMER, Professor Emeritus, Department of Biological Sciences; Vice President Emeritus, LSU System. PhD, University of Oklahoma.

VINCENT C. BRENNER, KPMG Peat Marwick Business Partnership Professor Emeritus, Department of Accounting. PhD, Pennsylvania State University.

WILLIAM H. BROWN, Professor Emeritus, Department of Biological and Agricultural Engineering. PhD, University of Missouri.

DONALD BRUCE, Professor Emeritus, School of Architecture. MA, University of Kentucky.

C. FREDERICK BRYAN, Professor Emeritus, Department of Renewable Natural Resources. PhD, University of Louisville.

ROGER L. BURFORD, Professor Emeritus, Department of Quantitative Business Analysis. PhD, Indiana University.

JAMES A. BURKE, Professor Emeritus, School of Art. MFA, University of Iowa.

PAUL Y. BURNIS, Professor Emeritus, School of Renewable Natural Resources. PhD, Yale University.

DIANE BURTS, Professor Emerita, School of Human Ecology. EdD, University of Southern Mississippi.

H. ROUSE CAFFEY, Professor Emeritus, Department of Agronomy; Chancellor Emeritus, LSU Agricultural Center. PhD, LSU.

AUGUSTUS CALDowell, Professor Emeritus, School of Plant, Environmental and Soil Sciences. PhD, Iowa State University.

CLAYTON D. CALLIHAN, Professor Emeritus, Department of Chemical Engineering. PhD, Michigan State University.

LARRY R. CAMPBELL, Professor Emeritus, School of Music. Med, Southwest Texas State University.

WILLIAM F. CAMPBELL, Professor Emeritus, Department of Economics. PhD, University of Virginia.

DEWEY K. CARPENTER, Professor Emeritus, Department of Chemistry. PhD, Duke University.

MICHAEL A. CARPENTER, Professor Emeritus, School of Library and Information Sciences. PhD, University of California, Berkeley.

STANLEY B. CARPENTER, Professor Emeritus, School of Renewable Natural Resources. PhD, Michigan State University.

CONSTANCE K. CARROLL, Aloysia Landry Barineau Memorial Endowed Professor Emerita of Music. MM, University of Rochester.

JAMES D. CARTER, Professor Emeritus, Department of Veterinary Clinical Sciences. DVM, MS, University of Missouri; Diplomate, American College of Veterinary Ophthalmologists.

MASON C. CARTER, Professor Emeritus, School of Renewable Natural Resources. PhD, Duke University.

FRANK K. CARTLEDGE, Class of 1941 Alumni Emeritus Professor; Professor of Chemistry; Vice Provost for Academic Affairs. PhD, Iowa State University.

TOM R. CAVANAUGH, Professor Emeritus, School of Art. MFA, University of Illinois.

ROBERT H. CHABRECK, Professor Emeritus, School of Renewable Natural Resources. PhD, LSU.

LAI-HIM CHAN, Professor Emeritus, Department of Physics & Astronomy. PhD, Harvard University.

JOHN E. CHANDLER, Professor Emeritus, School of Animal Science. PhD, Virginia Polytechnic Institute and State University.

SIMON H. CHANG, Professor Emeritus, Department of Biological Sciences. PhD, Oklahoma State University.

RUSSELL L. CHAPMAN, Professor Emeritus, Department of Oceanography and Coastal Sciences. PhD, University of California, Davis.

JOHN W. CHISHOLM, Professor Emeritus, Department of Economics. PhD, LSU.

EDWIN R. CHUBBUCK, Professor Emeritus, Department of Civil Engineering. PhD, Iowa State University.

ALMA B. CLARK, Professor Emerita, School of Home Economics. PhD, Cornell University.

THOMAS D. CLARK, Professor Emeritus, Department of Information Systems and Decision Sciences. PhD, Florida State University.

TERRY R. CLASON, Professor Emeritus, Department of Renewable Natural Resources. PhD, University of Georgia.

DAN F. CLOWER, Professor Emeritus, Department of Entomology. PhD, Cornell University.

BILLY J. COCHRAN, Professor Emeritus, Department of Agricultural Engineering. PhD, Oklahoma State University.

JAMES M. COLEMAN, Boyd Professor Emeritus. PhD, LSU.

HERON S. COLLINS, Professor Emeritus, Department of Mathematics. PhD, Tulane University.

M. JANE COLLINS, Professor Emerita, Department of Communication Sciences and Disorders. PhD, University of Iowa.

MARY W. COLMER, Librarian Emerita. MA, LSU.

ANDREI CONDRESCU, Professor Emeritus of English. Undergraduate Studies at University of Bucharest (Romania).

PIERRE E. CONNER, JR., Nicholson Professor Emeritus, Department of Mathematics. PhD, University of Maryland.

ARMANDO B. CORRIPIO, Jay Affolter Endowed Professor Emeritus, Department of Chemical Engineering. PhD, LSU.

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MOIRA CRONE, Professor Emeritus of English. MA, Johns Hopkins University.

EVELINA W. CROSS, Professor Emerita, School of Human Ecology; Professor Emerita, Department of Food Science. PhD, Texas Woman's University.

W. PATTON CULBERTSON, JR., Professor Emeritus, Department of Economics. PhD, University of Texas, Austin.

JOHN K. CULLEN, JR., Professor Emeritus, Department of Communication Sciences & Disorders. PhD, LSU Medical Center.

DUDLEY L. CULLEY, JR., Professor Emeritus, School of Renewable Natural Resources. PhD, Mississippi State University.

VICTOR A. CUNDY, Professor Emeritus, Department of Mechanical Engineering; Chair Emeritus, Department of Mechanical Engineering. PhD, University of Wyoming.

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ELEANOR A. KELLEY, Professor Emerita, School of Human Ecology. PhD, Michigan State University.
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PAUL N. KIRK, Professor Emeritus, Department of Physics and Astronomy. PhD, Massachusetts Institute of Technology.
KENNETH F. KITCHELL, JR., Professor Emeritus of Classics (Department of Foreign Languages & Literatures). PhD, Loyola University of Chicago.
JANELLYN P. KLEINER, Librarian Emerita. MLIS, LSU.
ROBERT J. KOCH, Professor Emeritus, Department of Mathematics. PhD, Tulane University.
PAUL E. KOENIG, Professor Emeritus, Department of Chemistry. PhD, University of Iowa.
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JOHN M. LARKIN, Professor Emeritus, Department of Biological Sciences. PhD, Washington State University.
ALWORTH D. LARSON, Professor Emeritus, Department of Microbiology. PhD, University of Iowa.
JERRY M. LAW, Professor Emeritus, Department of Agricultural Economics & Agribusiness. PhD, University of Minnesota.
JIMMIE D. LAWSON, Boyd Professor Emeritus; Professor of Mathematics. PhD, University of Tennessee.
THOMAS B. LAWSON, III, Professor Emeritus, Department of Biological & Agricultural Engineering. PhD, University of Wisconsin, Madison.
AMELIA M. LEE, Mary Ethel Baxter Lipscomb Memorial Endowed Professor Emerita, Department of Kinesiology; Chair Emerita, Department of Kinesiology. PhD, Texas Woman’s University.
WILLIAM R. LEE, Professor Emeritus, Department of Biological Sciences. PhD, University of Wisconsin, Madison.
RAYMOND V. LESIKAR, Professor Emeritus, Department of Management. PhD, University of Texas, Austin.
LAURA I. LINDSAY, Professor Emerita, Manship School of Mass Communication. PhD, LSU.
DONALD R. LINGARD, Professor Emeritus, Department of Veterinary Clinical Sciences. DVM, Ontario Veterinary College (Canada); MS, University of Illinois; PhD, Washington State University; Diplomate, American College of Theriogenologists.
JOSEPH A. LIUZZO, Professor Emeritus, Department of Food Science. PhD, Michigan State University.
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THOMAS M. LOWE, Professor Emeritus, Department of Civil Engineering. MS, University of Wisconsin.
PETER J. LUNARDINI, Professor Emeritus, Department of Spanish and Portuguese. PhD, University of New Mexico.
D. GENE LUTHER, Professor Emeritus, Department of Veterinary Science. DVM, Oklahoma State University; PhD, LSU; Diplomate, American College of Veterinary Microbiologists.
DAVID MADDEN, Professor Emeritus of English. MFA, San Francisco State University.
RICHARD A. MAGILL, Helen “Bessie” Silverberg Pliner Endowed Professor Emeritus in Kinesiology. PhD, Florida State University.
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GEORGE S. MARTIN, Professor Emeritus, Department of Veterinary Clinical Sciences; Veterinary Surgeon; Section Chief, Veterinary Teaching Hospital & Clinics. DVM, University of Illinois; MS, Colorado State University; MBA, Tulane University; MS, Diplomate, American College of Veterinary Surgeons.
JOHN E. MARTIN, Professor Emeritus, Department of Veterinary Anatomy & Cell Biology. DVM, MS, Texas A&M University.
JULIAN A. MARTIN, Professor Emeritus of Law Enforcement. JD, LSU.
PHILLIP H. MASSEY, Specialist Emeritus. MAJ, LSU.
SPENCER J. MAXCY, Professor Emeritus, Department of Educational Leadership, Research and Counseling. PhD, Indiana University.
FRITZ A. MCCAMERON, Professor Emeritus, Department of Accounting; Dean Emeritus, Continuing Education. PhD, University of Alabama.
EUGENE C. McCANN, Professor Emeritus, Department of Management. PhD, LSU.
J. RAYMOND McCULLEN, Professor Emeritus, Department of Veterinary Clinical Sciences. DVM, Kansas State University; MS, University of Minnesota; Diplomate, American College of Veterinary Surgeons.
O. CARRUTH McGHEE, Professor Emeritus, Department of Mathematics. PhD, Yale University.
SEAN P. McGLYNN, Boyd Professor Emeritus; Professor Emeritus, Department of Chemistry. PhD, Florida State University.
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WALLACE C. MCKENZIE, JR., Professor Emeritus, School of Music. PhD, North Texas State University.
EDWARD McLAUGHLIN, Professor Emeritus, Department of Chemical Engineering; Dean Emeritus, College of Engineering. PhD, DSc, London University (England).
ROBERT S. REICH, Alumni Professor Emeritus; Director Emeritus, School of Landscape Architecture. PhD, Cornell University.

K. BROOKS REID, JR., Professor Emeritus, Department of Mathematics; Chair Emeritus, Department of Mathematics. PhD, University of Illinois.

MARION T. REID, Librarian Emerita. MS, University of Illinois.

PANTHEA REID, Professor Emerita, Department of English. PhD, University of North Carolina, Chapel Hill.

JAMES R. RETHERFORD, Professor Emeritus, Department of Mathematics. PhD, Florida State University.

DANNY D. REIBLE, Chevron Professor Emeritus of Engineering; Professor Emeritus, Department of Chemical Engineering; Director, Hazardous Substance Research Center. PhD, California Institute of Technology.

DARRYL C. RESTER, Professor Emeritus, Department of Biological & Agricultural Engineering. MS, LSU.

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HARRY ROBERTS, Boyd Professor Emeritus, Department of Oceanography and Coastal Sciences; Adjunct Professor of Geology and Geophysics. PhD, LSU.

DONALD ROBINSON, Professor Emeritus, Department of Agronomy. PhD, Kansas State University.

JAMES W. ROBINSON, Professor Emeritus, Department of Chemistry. PhD, DSc, Birmingham University (England).

JAMES E. ROCHE, Professor Emeritus, Department of Geology and Geophysics. PhD, University of Illinois, Urbana Champaign.

ROBERT J. ROSS, Dean Emeritus, College of Music and Dramatic Arts. PhD, University of Cincinnati.

DOUGLAS A. ROSSMAN, Curator Emeritus, Museum of Natural Science. PhD, University of Florida.

JOSEPH D. ROUSSEL, Professor Emeritus, Department of Dairy Science. PhD, LSU.

LYNN K. RUNNELS, Professor Emeritus, Department of Chemistry. PhD, Yale University.

LOUIS L. RUSOFF, Professor Emeritus, Department of Dairy Science. PhD, University of Minnesota.

WALTER E. RUTKOWSKI, Professor Emeritus, School of Art. Ed.D., Pennsylvania State University.

MEHDY SABBAGHIAN, Chevron Professor Emeritus of Engineering; Professor Emeritus, Department of Mechanical Engineering; Chair Emeritus, Department of Mechanical Engineering. PhD, University of Oklahoma.

LAWRENCE A. SASEK, Professor Emeritus, Department of English. PhD, Harvard University.

RALPH L. W. SCHMIDT, Professor Emeritus, Department of Curriculum & Instruction; Head Emeritus, General Studies Degree Program. PhD, University of Nebraska.

DAN R. SCHOLZ, Professor Emeritus, Department of Mathematics; Professor Emeritus, Department of Mechanical Engineering. PhD, Washington University.

ALVIN R. SCHUPP, Professor Emeritus, Department of Agricultural Economics and Agribusiness. PhD, University of Missouri.

LOREN C. SCOTT, Freeport-McMoRan Corporation Endowed Chair Emeritus; Professor Emeritus, Department of Economics. PhD, Oklahoma State University.


BILLY M. SEAY, Professor Emeritus, Department of Psychology. PhD, University of Illinois.

JOEL SELBIN, Professor Emeritus, Department of Chemistry. PhD, University of Illinois, Urbana Champaign.

BARUN K. SEN GUPTA, Dr. Henry V. Howe Distinguished Professor Emeritus; Professor Emeritus, Department of Geology and Geophysics. PhD, Indian Institute of Technology (India).

BARBARA S. SHANE, Professor Emerita, Department of Environmental Studies. PhD, University of Witwatersrand (South Africa); Diplomate, American Board of Toxicology.

DANIEL P. SHER, Professor Emeritus, School of Music; Dean Emeritus, School of Music. Ed.D., Columbia University.

JING S. SHEN, Professor Emeritus, Department of Biological Sciences. PhD, Virginia Polytechnic Institute and State University.

CHARLES R. SHORT, Professor Emeritus, Department of Comparative Biomedical Sciences. DVM, The Ohio State University; PhD, University of Missouri, Columbia; Diplomate, American College of Veterinary Clinical Pharmacology.

DARWIN H. SHRELL, Professor Emeritus, Department of English. PhD, University of Texas, Austin.

LEE SHIPLETT, Professor Emeritus, School of Library & Information Science. PhD, Florida State University.

HAROLD SILVERMAN, Professor Emeritus, Department of Biological Sciences. PhD, Ohio University.

VIJAY P. SINGH, Professor Emeritus, College of Engineering; Arthur K. Barton Endowed Professor; Professor of Civil and Environmental Engineering; Adjunct Professor of Renewable Natural Resources. PhD, Colorado State University; DSc University of Witwatersrand (South Africa).

FREDERICK E. SISTLER, Professor Emeritus, Department of Biological & Agricultural Engineering. PhD, University of Wisconsin, Madison.

MYRON B. SLOVIN, Union National Life Insurance Company Business Partnership Professor Emeritus; Bank One/Chuck McCoy Distinguished Professor Emeritus; Professor Emeritus, Department of Finance. PhD, Princeton University.

CHARLES W. SMITH, Professor Emeritus, School of Resource Education & Workforce Development; Dean Emeritus, College of Education. PhD, Pennsylvania State University.

DAVID J. SMITH, Professor Emeritus, Department of English. PhD, Ohio University.

FRED M. SMITH, Professor Emeritus, Department of Administrative & Foundational Services. Ed.D., LSU.

ROBERT F. SMITH, Professor Emeritus, Department of Economics. PhD, University of Illinois.

FOUNT S. SMOOTHERS, Professor Emeritus, School of Architecture. MS, Ohio University.

DAVID J. SMYTH, LSU Foundation Professor Emeritus, Department of Economics. PhD, University of Birmingham (England).

MARION D. SOCOLOFFSKY, Alumni Professor Emeritus, Department of Microbiology. PhD, University of Texas, Austin.

WILFRED E. SPRINGER, Professor Emeritus, Department of Veterinary Science; Head Emeritus, Department of Veterinary Science. DVM University of Illinois; PhD, University of Georgia; Diplomate, American College of Veterinary Microbiologists.

WILLIAM F. STAATS, Hermann Moyse, Jr./Louisiana Bankers Association Chair of Banking Professor Emeritus; Professor Emeritus, Department of Finance. PhD, University of Texas, Austin.
Continuing Education

DOUGLAS P. WEIMER, Executive Director, MA, LSU.

KATHRYN E. CARROLL, Director for Research, Planning & Communication, MS, Northwestern State University.

JOSEPH GREENBERG, Associate Executive Director and Director of Independent & Distance Learning, EdD, The Pennsylvania State University.

GAIL HAWKES, Associate Director, Learner Services. MLIS, LSU.

DOREEN O. MAXCY, Director for Public Service. PhD, LSU.

WENDY OVERTON, Assistant Executive Director, Administration & Finance. MBA, Our Lady of the Lake University of San Antonio.

MARTHA M. RATCLIFF, Manager for Information Technology Administration. BA, LSU Shreveport.

University College

R. PAUL IVEY, Associate Dean, MEd, University of Louisiana, Monroe.

SHARON L. WRIGHT, Assistant to the Dean, MEd, LSU.

DEBORAH HOLLIER, Director, Student Support Services. MSW, LSU.

ERIN ANTHONY, Counselor. MS, University of South Alabama.

TRACY BLANCHARD, Counselor. MHS-RC, LSU Health Sciences Center.

GLADYS CADE, Counselor. MEd, Southern University.

NANETTE CHEATHAM, Counselor. MA, LSU.

ALZINA DUNCAN, Counselor. MS, Alcorn State University.

W. TIMOTHY FIELDS, Counselor. MEd, LSU.

JOSEPH GIVENS, Assistant Director, McNair Program. MS, Arkansas State University.

ROSEZELIA JACKSON, Counselor. MEd, Georgia Southern University.

RAMON LOPEZ, Counselor, MEd, Southeastern Louisiana University.

ANTHONY OSTER, Counselor. MS, NCC, University of Southern Mississippi.

NATALIE PERKINS, Counselor, MS, University of Southern Mississippi.

TROY ROBERTSON, Computer Analyst. MEd, Southeastern Louisiana University.

CANDACE SHARPER, Counselor, Student Support Services. MA, LSU.

GWEN SNEARL, Counselor, MS, University of Louisiana, Lafayette.

CONNIE STELLY, Director, McNair Program. MEd, LSU.

CAROL B. THOMAS, Assistant to the Dean, BA, LSU.

KATHRYN TRICHE, Counselor, MSW, LSU.

JOYCE WAKEFIELD, Counselor, MA, LSU.

CRAIG WINCHELL, Assistant Director, Student Support Services. MEd, LSU.

ANNETTE YANCY, Counselor. MA, Western Michigan University.

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GINA E. EUBANKS, Administrator (1890 Extension Program – Southern University). PhD, Oklahoma State University.

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AMANDA CARUSO, Web Analyst, Developer. BS, LSU.

ERIC A. ESKEW, Foundation Director. MS, LSU.

TERRIL D. FAUL, Professor. MS, LSU.

JANET FOX, Professor & Associate Head. PhD, University of Nebraska.

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KIMBERLY Y. JONES, Instructor. MS, Alcorn State University.

KIM LANDRY, Camp Director. MS, LSU.

ASHLEY MULLENS, Extension Associate. LSU.

ROSE ANNE ST. ROMAIN, 4-H Museum Coordinator. MS, Southern Illinois University. MLIS, LSU.

KATHLEEN SCHENXNAYDER, Extension Associate, Louisiana Tech University.

TODD A. TARIFA, Assistant Professor. PhD, LSU.

Agricultural Center Communications - Baton Rouge

FRANCES I. GOULD, Professor & Director. MFA, University of Nebraska.

LINDA F. BENEDICT, Professor & Associate Director. PhD, University of Missouri.

TOBIE BLANCHARD, Assistant Communications Specialist. MMC, LSU.

RICHARD C. BOGRÉN, Professor. MBA, Illinois State University.

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BARBARA R. CORNS, Professor. MA, Michigan State University.

K. CRAIG GAUTREAUX, Associate Communications Specialist. MA, LSU.

KATHLEEN KRAMER, Assistant Communications Specialist. BS, Iowa State University.

RANDY LABAUVE, Assistant Communications Specialist. MA, LSU.

ELMA SUE McCALLUM, Associate Communications Specialist & Assistant Director. MALA, LSU.

THOMAS A. MERRILL, Professor. MAJC, University of Florida.

JOHNNY MORGAN, Associate Communications Specialist. MA, University of Mississippi.

ELIZABETH R. NEELY, Professor. MFA, LSU.

BRUCE R. SCHULTZ, Assistant Communications Specialist. BA, LSU.

MARY ANN VAN OSDIEL, Assistant Communications Specialist. BA, LSU.

JOHN D. WOZNIAK, Professor & Assistant Director. MEd, LSU.

Ag Leadership Development Program - Baton Rouge

ROBERT J. SOILEAU, Director. PhD, LSU.

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VADIM KOCHERGIN, Professor. PhD, Mendeleev Chemical Engineering University (Russia).

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MELATI TESSIER, Instructor. BS, LSU.

Aquaculture Research Station – Baton Rouge

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JOSHUA D. DETRE, Assistant Professor.
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JANET SIMONSON, Instructor. PhD, LSU.
AMY DEEPIKA CUROLE, Instructor. MS, LSU.
MARK LeBLANC, Head. PhD, LSU.

Department of Agricultural Chemistry
MARK LeBLANC, Head. PhD, LSU.
DEEPIKA CUROLE, Instructor. MS, LSU.
AMY HERNANDEZ, Program Coordinator. BS, LSU.
JANET SIMONSON, Instructor. PhD, LSU.
DAVID WALL, Instructor. BS, LSU.

Department of Agricultural Economics and Agribusiness
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REX CAFFEY, Professor. PhD, LSU.*
JOSHUA D. DETRE, Assistant Professor. PhD, Purdue University.
MICHAEL A. DUNN, Associate Professor of Agricultural Economics & Agribusiness; Adjunct Associate Professor of Renewable Natural Resources. PhD, Auburn University.
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HUIZHEN NIU, Instructor. BS, Hebei University (China).
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HECTOR O. ZAPATA, Professor. PhD, University of Illinois.*

School of Plant, Environmental, and Soil Sciences
DON LaBONTE, Interim Director & Professor. PhD, University of Illinois, Urbana-Champaign.*
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RONALD D. DELAUNE, Adjunct Professor Research. PhD, Wageingen University (The Netherlands).*
IVAN DICKSON, Instructor. MS, LSU.
LEWIS A. GASTON, Associate Professor. PhD, University of Florida.*
DANIEL GILL, Associate Professor. MS, LSU.
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DAVID G. HIMELRICK, Professor. PhD, West Virginia University.*
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COLLINS KIMBENG, Associate Professor. PhD, University of Wisconsin.
CARRIE KNOTT, Assistant Professor. PhD, University of Kentucky.
MANOCH KONGCHUM, Instructor. PhD, LSU.
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J. H. OARD, Professor. PhD, Iowa State University.*
ROBERT SOUVESTRE, Instructor. MS, LSU.
ALEXANDER M. STEWART, Adjunct Associate Professor. PhD, North Carolina State University.
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DAVID WEINDORF, Assistant Professor. PhD, Texas Tech University, Lubbock.
PRASANTA SUBUDHI, Associate Professor. PhD, LSU.*

School of Animal Sciences
PAUL E. HUMES, Professor Emeritus. PhD, Oregon State University.
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KAYANUSH ARYANA, Associate Professor. PhD, Mississippi State University.
ARDON BAHAM, Professor Emeritus. PhD, Auburn University.
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ROBERT A. GODKE, Boyd Professor. PhD, University of Missouri-Columbia.*
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WILLIAM HANSEL, Professor, Adjunct Professor of Comparative Biomedical Sciences; Professor (Research) Pennington Biomedical Research Center/Cancer Prevention, Professor, Animal Biotechnology, PhD, Cornell University.*
GARY HAY, Interim Director; Professor. PhD, LSU.*

CHARLES HUTCHINSON, Associate Professor. PhD, Mississippi State University.
DENNIS R. INGRAM, Associate Professor. PhD, University of Florida.*
BRUCE JENNY, Professor; D.L. Evans Professorship in Dairy Science. PhD, Virginia Polytechnic Institute & State University.
THERESE K. LAVERGNE, Associate Professor. PhD, LSU.
STANLEY P. LEIBO, Adjunct Professor. PhD, Princeton University.*
MICHAEL E. M'CORMICK, Adjunct Professor. PhD, Virginia Polytechnic Institute & State University.
KATHWEN W. MCCULLIN, Professor, Adjunct Professor of Food Science. PhD, Iowa State University.*
JAMES E. MILLER, Adjunct Professor. DVM, University of California, Davis.
VINCIUS R. MOREIRA, Adjunct Assistant Professor. PhD, Federal University of Minas Gerais (Brazil).
W. ALLEN NIPPER, Adjunct Professor. PhD, Iowa State University.
WILLIAM E. OWENS, Adjunct Professor. PhD, LSU Medical School.
DALE L. PACCAMONTI, Adjunct Professor. DMV, Michigan State University.
TIMOTHY G. PAGE, Professor. PhD, LSU.
CHARLES EARLE POPE, Adjunct Professor. PhD, University of Missouri.*
GREGORY C. ROBBINS, Adjunct Associate Professor. PhD, University of Tel-Aviv.
JOSEPH D. ROUSSEL, Professor Emeritus. PhD, LSU.
SINA G. SATTERLEE, Professor. PhD, University of Missouri, Columbia.*
L. LEE SOUTHERN, Doyle Chambers Professor. PhD, University of Illinois.*
DONALD L. THOMPSON, JR. Ralph and Leila Boulware Professorship; Professor. PhD, Colorado State University.
T. WAYNE WHITE, Professor Emeritus. PhD, University of Missouri.
CATHELINE C. WILLIAMS, Associate Professor, Gerald A. Simmons Professor of Dairy Science. PhD, Auburn University.*
WAYNE WYATT, Adjunct Professor. PhD, Virginia Polytechnic Institute & State University.

PhD, University of Tennessee.

Department of Biological and Agricultural Engineering
DANIEL L. THOMAS, Professor & Head. PhD, Purdue University.*
ERIC C. ACHBERGER, Associate Professor. PhD, Pennsylvania State University.*
ROBERTO N. BARBOSA, Assistant Professor. PhD, University of Tennessee.
JEFFREY DAVIS, Assistant Professors. PhD, University of Minnesota.*
RICHARD A. GOYER, Professor Emeritus. PhD, University of Wisconsin, Madison.*
MARY L. GRODNER, Professor. PhD, LSU.
FELIX GUERRERO, Adjunct Professor. PhD, Texas A&M University.

JAMES L. FOUSS, Adjunct Professor; Agricultural Engineer (USDA). PhD, The Ohio State University.*
JAMES M. GREGORY, Adjunct Professor. PhD, Iowa State University.*
STEVEN G. HALL, Associate Professor. PhD, Cornell University.*
LYNN M. HANNAMAN, Professor. EdD, University of Northern Colorado.
DANIEL J. HAYES, Assistant Professor. PhD, Pennsylvania State University.*
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LI LI, Adjunct Associate Professor. PhD, University of Massachusetts.
MARYBETH LIMA, Professor. PhD, The Ohio State University.*
MUNDI J. LOPEZ, Adjunct Assistant Professor. PhD, University of Wisconsin. MICHAEL P. MAILANDER, Associate Professor. PhD, Purdue University.*
W. TODD MONROE, Associate Professor. PhD, Vanderbilt University.*
D. KEITH MORRIS, Adjunct Assistant Professor. PhD, Purdue University.
RICHARD L. PARISH, Adjunct Professor Emeritus. PhD, University of Missouri, Columbia.
CLAUDETTE H. REICHEL, Professor. EdD, LSU.
CRISTINA SABLOV, Associate Professor. PhD, North Carolina State University.*
MICHAEL SASKA, Adjunct Professor. PhD, Georgia Institute of Technology.*
SUBRAMANIAM SATHIVEL, Assistant Professor. PhD, LSU.
RICHARD E. SHEFFIELD, Assistant Professor. PhD, North Carolina State University.
PATRICIA SKINNER, Instructor. MS, LSU.
CHANDRA S. THEEGALA, Associate Professor. PhD, LSU.*
MAURICE C. WOLCOTT, Instructor. MS, LSU.

Department of Entomology
TIMOTHY D. SCHOWALTER, Professor & Head. PhD, University of Georgia.*
JEREMY ALLISON, Assistant professor. PhD, University of California, Riverside.*
JACK L. BALDWIN, Professor. PhD, Oklahoma State University.
EUGENE BURRIS, Adjunct Professor. MS, Oklahoma State University.
CHRISTOPHER E. CARLTON, Professor. PhD, University of Arkansas.*
ROBERT G. DANKA, Adjunct Professor. PhD, LSU.
JEFFREY DAVIS, Assistant Professor. PhD, University of Minnesota.*
LANCE D. FOIL, Professor. PhD, University of Minnesota.*
RICHARD A. GOYER, Professor Emeritus. PhD, University of Wisconsin, Madison.*
MARY L. GRODNER, Professor. PhD, LSU.
FELIX GUERRERO, Adjunct Professor. PhD, Texas A&M University.
CHARLES L. HEBERT, Agent. MS, LSU.
LARMARA HOLLIER, Agent (1890 Program). MS, LSU.
NICOLE LEMAIRE, Assistant Agent. BA, University of Louisiana at Lafayette.
NIKKI MOUCH, Assistant Agent. BS, LSU.
ROBERT TRAWICK, Agent. MS, Auburn University.

St. Landry Parish - Opelousas
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VINCE DESHOTEL, Assistant Agent. BS, McNeese State University.
ALLISON MULLER, Assistant Agent. BS, LSU.
RONALD NICHOLAS, Agent (1890 Program). MS, Prairie View A&M University.
GLORIA NYE, Assistant Agent. PhD, LSU.

St. Martin Parish - Breaux Bridge
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ALFRED J. GUIDRY, Agent. MS, University of Louisiana, Lafayette.
HOPE B. GUIDRY, Assistant Agent. MS, University of Louisiana, Lafayette.
CHRIS ROBICHAUX, Agent (1890 Program). PhD, LSU.
St. Mary Parish - Franklin
ADRIANNA DRUSINI, Assistant Agent. MS, Texas A&M University.
JIMMY W. FLANAGAN, Agent. MS, LSU.
JENNIFER JOHNSON, Assistant Agent. BS, Nicholls State University.
AMY JUNEAU, Assistant Agent. MS, Southeastern University.

Vermilion Parish - Abbeville
MANDY G. ARMENTOR, Associate Agent. MS, Louisiana Tech University.
STUART GAUTHIER, Agent. DVM, LSU.
ANDREW L. GRANGER, Agent. MS, LSU.
HILTON WAITS, Agent. MS, LSU.
SHANNAN Z. WAITS, Agent. MS, LSU.