This 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, color, religion, sex, age, national origin, physical or mental disability, marital status, 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 Equal Opportunity Programs, 318 Thomas Boyd Hall, LSU, Baton Rouge, Louisiana 70803; telephone 504/388-6595; FAX 504/388-6571.
This 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 and 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.

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 this responsibility. 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.

The LSU catalog and bulletin series (ISSN 0744-4613) is published by Louisiana State University and Agricultural and Mechanical College four times a year: once in April, once in June, once in July, and once in August. Second class postage is paid at Baton Rouge 70803. Publishing office is the LSU Office of Public Relations, Baton Rouge, Louisiana 70803. Copies of this catalog may be obtained from—and change of address, undeliverable copies, and other mail sent to—Office of Student Records & registration, 112 Thomas Boyd Hall, LSU, Baton Rouge, Louisiana 70803.

Effective date of this catalog • Fall 1995

Price • $3 per copy

This catalog was compiled and edited by the LSU Office of Academic Affairs and produced by the LSU Office of Public Relations.
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### ACADEMIC CALENDAR, 1995–96

#### FALL SEMESTER • 1995

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<th>23-25</th>
<th>28</th>
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<tbody>
<tr>
<td>August</td>
<td>Orientation for new freshmen, transfer students, and international students</td>
<td>Registration</td>
<td>Classes begin</td>
</tr>
</tbody>
</table>

| S M T W T F S | 4 5 6 | 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| September    | Labor Day holiday | Classes resume, 7:30 a.m. | Final date for adding courses for credit and making section changes | Final date for adding thesis/dissertation research | Final date for “degree only” registration | Final date for submitting to Graduate School for master’s and doctoral degrees to be awarded at fall commencement | Final date for dropping courses without receiving a grade of “W” | Final date for departments to recommend to Graduate School appointment of examining committees (requests for final examinations) for degrees to be awarded at fall commencement | Final date for submitting to Graduate School for the “Program of Study” for the current semester to be counted toward the doctoral residence requirement | Final date for submitting to Graduate School general examination reports for the doctorate to be awarded at spring commencement |

| S M T W T F S | 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 |
|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| October      | Final date for fall semester graduates to submit theses and dissertations to examining committees | Final date for receipt of graduate applications for spring semester without paying $25 late fee | Midsemester examination period | Midsemester grades due in Office of Student Records & Registration | Fall holiday | Classes resume, 7:30 a.m. | Registration for spring semester begins |

| S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 |
|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| November     | Final date for resigning from the University and/or dropping courses | Final date for submitting to Graduate School committee examination reports and approved theses and dissertations, including Graduate School corrections (must be submitted by noon) | Thanksgiving holiday | Classes resume, 7:30 a.m. |

| S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 |
|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| December     | Final date for receipt of departmental nominations for Graduate School Tuition Awards for spring semester | 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 |

| S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 |
|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|

#### SPRING SEMESTER • 1996

| S M T W T F S | 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 |
|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| January      | Classes end | Final examination period | Fall commencement, 9:30 a.m. |

| S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 |
|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| February     | Final date for dropping courses without receiving a grade of “W” | Final date for submitting to Graduate School the “Program of Study” for the current semester to be counted toward the doctoral residence requirement | Final date for submitting to Graduate School general examination reports for the doctorate to be awarded at summer commencement | Final date for departments to recommend to Graduate School appointment of examining committees (requests for final examinations) for degrees to be awarded at spring commencement | Final date for receipt of departmental nominations for Graduate School Fellowships | Mardi Gras holiday begins | Classes resume, 12:30 p.m. |

| S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 |
|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| March        | Midsemester examination period | Final date for spring semester graduates to submit theses and dissertations to examining committees | Midsemester grades due in Office of Student Records and Registration | Registration for summer term and fall semester begins | Final date for resigning from the University and/or dropping courses |

| S M T W T F S | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 |
|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| April        | Final date for receipt of departmental nominations for Graduate School Tuition Awards for fall semester | Spring break |

*Italics indicate dates pertaining exclusively to graduate students.*
8 Classes resume, 7:30 a.m.
12 Final date for submitting to Graduate School committee examination reports and approved theses and dissertations, including Graduate School corrections (must be submitted by noon)

**MAY**

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 examination period
15 Final date for receipt of Graduate applications for summer term or fall semester without paying $25 late fee
17 Spring commencement, 9:30 a.m.

**INTERSESSION • 1996**

**JUNE**

4-5 Orientation for new freshmen, transfer students, and international students
5 Registration
6 Classes begin
10 Final date for adding courses for credit, making section changes
10 Final date for adding thesis/dissertation research
12 Final date for "degree only" registration
12 Final date for submitting to Graduate School applications for master's and doctoral degrees to be awarded at summer commencement
12 Final date for departments to recommend to Graduate School appointment of examining committees (requests for final examinations) for degrees to be awarded at summer commencement
12 Final date for submitting to Graduate School general examination reports for the doctorate to be awarded at fall commencement
18 Final date for dropping courses without receiving a grade of "W"
24 Final date for summer graduates to submit theses and dissertations to examining committees
26-28 Midterm examination period

**JULY**

1 Final date for receipt of departmental appointments for Board of Regents' Graduate Fellowships for fall semester
2 Midterm grades due in Office of Student Records and Registration
4-5 Independence Day holiday
8 Classes resume, 7:30 a.m.
12 Final date for resigning from the University and/or dropping courses
12 Final date for submitting to Graduate School committee examination reports and approved theses and dissertations, including Graduate School corrections (must be submitted by noon)
31 Classes end

**AUGUST**

1 Concentrated Study Day
2-3 Final examination period
7 Summer commencement, 9:30 a.m.

**SESSION B**

(See Session A for Graduate School deadlines.)

**JUNE**

4-5 Orientation for new freshmen, transfer students, and international students
5 Registration
6 Classes begin
10 Final date for adding courses for credit and making section changes
11 Final date for dropping courses without receiving a grade of "W"
19 Final date for resigning from the University and/or dropping courses

**JULY**

2 Classes end
3 Final examination period

**AUGUST**

7 Summer commencement, 9:30 a.m.

**SESSION C**

(See Session A for Graduate School deadlines.)

**JUNE**

4-5 Orientation
5 Registration

**JULY**

8 Classes begin
10 Final date for adding courses for credit and making section changes
11 Final date for dropping courses without receiving a grade of "W"
19 Final date for resigning from the University and/or dropping courses

**AUGUST**

1 Classes end
2 Final examination period
7 Summer commencement, 9:30 a.m.
THE UNIVERSITY

Louisiana State University and A&M College is the state's comprehensive research university. It shall continue to perform the functions assigned to it by the Morrill Act of 1862 and the Sea Grant Program Act of 1966.

Louisiana State University offers challenging undergraduate, graduate, and professional educational programs for outstanding students from Louisiana, the nation, and other countries. Its nationally and internationally recognized efforts in a broad range of research fields create new knowledge and promote economic development. LSU's libraries and museums preserve the rich cultural heritage of the state, and scholars and artists at the University contribute to the literature, history, science, technology, and arts of our cultural diverse community.

As the premier university of the state, the mission of Louisiana State University and A&M College is the generation, preservation, dissemination, and application of knowledge and cultivation of the arts for the benefit of the people of the state, the nation, and the global community.

LSU has been designated by the Louisiana Board of Regents as the state's only comprehensive university. This comprehensiveness is recognized nationally by LSU's classification by the Carnegie Foundation as a Research University I—one of only 59 public and 29 private universities in the nation to be so designated—and by its unusual status as one of only 25 universities in the nation designated as both a land-grant and a sea-grant institution. At the present time, the University is actively seeking space-grant status. LSU's instructional programs include approximately 209 curricula leading to undergraduate and graduate/professional degrees.

In the agricultural disciplines, the University's instructional effort is articulated with an adjacent campus, the LSU Agricultural Center. Affiliated with the main campus, the School of Veterinary Medicine offers the professional degree, Doctor of Veterinary Medicine. The Master of Science and the Doctor of Philosophy degrees in veterinary medicine are offered through the Graduate School. In addition to those degree programs offered on its own campus, LSU maintains resident centers at System campuses in Alexandria and Eunice.

Preeminence, an element of LSU's purpose, was promulgated by the Board of Supervisors in Quest for Quality—A Charter for the 1980s. This document clearly set forth LSU's aim to build upon its comprehensive foundation and to emerge as one of the nation’s and world’s distinguished centers of learning, teaching, research, and service. These dual objectives imply that LSU must capitalize on and respond to the unique opportunities afforded by its Louisiana constituency. But these objectives also imply broader responsibilities—to the nation and to the world.

LSU's goals require recruiting and retaining faculty, staff, and students of the highest caliber; providing an environment that allows students and faculty to develop their capabilities to the fullest; continuing emphasis on graduate programs and strengthening undergraduate curricula; and exploring new boundaries of knowledge through research and scholarly activity.

LSU TODAY

The University attracts about 16 percent of the state's total enrollment in higher education and LSU students come from many ethnic and religious backgrounds, providing a multicultural learning environment. The student body is made up of more than 25,000 students from all 50 states and more than 120 foreign countries. Although the average age of undergraduates is 22, many older students also pursue degrees at LSU. The ratio of men to women in the student body is almost equal.

Since its first commencement in 1869, LSU has awarded more than 155,000 degrees. The University produces about 23 percent of Louisiana's baccalaureate graduates, approximately 27 percent of the master's degrees, and about 69 percent of the doctoral degrees.

With more than 130,000 alumni, LSU ranks in the top 10 percent in the nation in 1800, 1811, and 1827 for use as a seminary of learning. 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 Col. William Tecumseh Sherman as Superintendent. The school closed June 30, 1861, because of the Civil War. It reopened on April 1, 1862, with Col. William E. M. Linfield as Acting Superintendent, who was succeeded in office, April 1, 1863, by Professor William A. Seay. It was again closed on April 23, 1863, due to the invasion of the Red River Valley by the Federal Army. The losses sustained by the institution during the war were heavy.

The Seminary reopened October 2, 1865, with Col. David F. Boyd as Superintendent. The college was burned October 15, 1869, and on November 1, 1869, the institution resumed its exercises in Baton Rouge, where it has since remained. In 1870, the name of the institution was changed to Louisiana State University.

Louisiana State Agricultural and Mechanical College was established by an Act of the Legislature, approved April 7, 1874, to be known as the State Normal School. The college opened August 23, 1874, to 135 students, with Professor H. W. Bell as its first president. The state institution continued their first joint session on October 5, 1877, under the name and legal title of the Louisiana State University and Agricultural and Mechanical College—the name it retains today.

The first Baton Rouge home of LSU was in the quarters of the Institute for the Deaf, Dumb, and Blind. In 1886, the federal garison grounds (now the site of the state capitol) were formally declared the domicile of the University. The present campus was purchased in 1918, construction started in 1922, and the move began in 1925; it was not, however, until 1932 that the move was finally completed. Formal dedication of the present campus took place on April 30, 1926. After some years of enrollment fluctuation, student numbers began a steady increase, new programs were added, curricula and faculty were expanded, and a true state university emerged.

The major academic divisions were founded as follows: Law School, 1906; the Colleges of Agriculture, Arts and Sciences, Education, and Engineering, 1908; the Graduate School, 1909; College of Continuing Education, 1924; the College of Business Administration, 1928; the Graduate School of Library Science (renamed the School of Library and Information Science in 1981), the College of Chemistry and Physics (renamed the College of Basic Sciences in 1982), and the School of Music, 1931; Junior Division, 1933; the School of Social Welfare (renamed the School of Social Work in 1983), 1937; University College (renamed to General College in 1974), 1951; the School of Environmental Design (renamed the College of Design in 1979), 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 attainable in the program. LSU is one of only 25 universities to be designated as both land grant and sea grant.

THE CAMPUS

The University is located on more than 2,000 acres in the southern part of the city. The campus is 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 petroleum center—has a metropolitan area population of more than 500,000. According to history, the city's name is derived from a tall cypress tree which 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 Goulia 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 and New Orleans is 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 broad Red River, Louisiana country of bayous, marshes, and lakes—about an hour's drive from the campus—offers opportunities for fishing, hunting, and other recreation.

MISSION

Louisiana State University and A&M College is the state's comprehensive research university. It shall continue to perform the functions assigned to it by the Morrill Act of 1862 and the Sea Grant Program Act of 1966.

Louisiana State University offers challenging undergraduate, graduate, and professional educational programs for outstanding students from Louisiana, the nation, and other countries. LSU's nationally and internationally recognized efforts in a broad range of research fields create new knowledge and promote economic development. LSU's libraries and museums preserve the rich cultural heritage of the state and attract artists and scholars to the University contribute to the literature, history, science, technology, and arts of our culturally diverse community.

As the premier university of the state, the mission of Louisiana State University and A&M College is the generation, preservation, dissemination, and application of knowledge and cultivation of the arts for the benefit of the people of the state, the nation, and the global community.

Teaching

The University has approximately 1,200 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. Other awards for outstanding achievement are the William A. Read Professorship of English Literature, the Nicholson Professorship of Mathematics, LSU Foundation Professorships, Alumni Professorships, Campanile Charities 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 recognized faculty, more than 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.

Many faculty members currently serve as editors or on the editorial boards of scholarly journals or series.

Research

In 1987, LSU was designated a Research University I by the Carnegie Foundation, placing it in the top 2 percent of the nation's colleges and universities. LSU is also one of the only 25 universities nationwide designated as both a land grant and sea 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 taxpayers' money. The economic result of this activity is the creation of 2,250 new jobs, $55 million in new income for Louisiana households, and $125 million in new sales to Louisiana firms.

LSU's supercomputer places the University among the top 20 universities in the U.S. in computing capability. LSU Libraries comprise the largest research library in the state. And LSU's Office of Technology Transfer ranks among the nation's top 20 university patent receivers. The University was awarded its 59th patent in 1994.

In addition to more than 35 institutes, centers for advanced study, and other specialized units headquartered at LSU, various state and federal agencies have chosen LSU offices and laboratories on campus.

LSU injects more than a half-billion dollars into the Baton Rouge economy annually, with direct expenditures of more than $344 million by all units in Baton Rouge, creating sales of nearly $672 million.
At any given time, more than 800 sponsored research projects are in progress. Additionally, faculty and staff members and graduate students pursue numerous research projects that are not sponsored by outside agencies. LSU annually brings in an average of $70 million in grants and contracts from federal, state, and private sources—a significant factor for the Louisiana economy. Other research projects and instructional programs are undertaken through the LSU Agricultural Center, the Louisiana Agricultural Experiment Station, and Pennington Biomedical Research 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 Division of 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 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. Finally, through the Louisiana Veterinary Medical Diagnostic Laboratory, a comprehensive animal disease diagnostic service is provided to the agricultural and general communities.

The University also offers numerous cultural and entertainment events, including lectures, musical performances, and plays, to the community each year. In addition, its museums—the Museum of Art, Museum of Natural Science, and the unique Rural Life Museum and Windrush Gardens—are open to all citizens.

**ORGANIZATIONAL STRUCTURE**

The chief administrative officer of LSU is the Chancellor; directly responsible to the Chancellor are the Executive Vice-Chancellor, the Vice-Chancellor for Academic Affairs and Provost, the Vice-Chancellor for Business Affairs and Comptroller, the Vice-Chancellor for Research and Economic Development, the Vice-Chancellor for Student Services, the Athletic Director, and the Director of Public Relations.

**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 Executive Vice-Chancellor**

The Office of Executive Vice-Chancellor is charged with long-range strategic planning for the University; coordinating academic, research, and public service activities; planning for facilities on campus; and administering University computing services.

Reporting to the Executive Vice-Chancellor through the Director of Computing Services are the System Network Computer Center, Administrative Information Systems, Information Technology Support, Academic Library Network, and Telecommunications.

**Office of Academic Affairs**

The Vice-Chancellor for Academic Affairs and Provost is responsible for the academic programs of the University. Reporting directly to the vice-chancellor are the Colleges of Agriculture, Arts and Sciences, Basic Sciences, Business Administration, Design, Education, and Engineering; General College, Honors College, and Junior Division; the Graduate School; the Schools of Music, Veterinary Medicine, Library and Information Science, and Social Work; the Manship School of Mass Communication; the Division of Continuing Education; the Offices of Student Records & Registration, Undergraduate Admissions, Student Aid and Scholarships, and the Academic Center for Athletes; the Division of Instructional Support and Development; the LSU Libraries; the LSU Press, and the Southern Review.

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

**Office of Business Affairs**

The Vice-Chancellor for Business Affairs and Comptroller is responsible for a variety of business functions and institutional support services, including accounting, purchasing, cash management and disbursement, budgeting, internal auditing, contracts administration, plant and facilities, risk management, personnel, police, safety, parking, traffic, transportation, central stores, printing, campus mail, the golf course, the assembly center, and the natural history laboratories.

**Office of Research and Economic Development**

The Vice-Chancellor for Research and Economic Development is responsible for the overall research and economic development efforts of the University, and coordinates the work of more than 1,350 faculty and staff involved in approximately 2,000 research projects.

Units reporting to this office are the Office of Sponsored Research, the Center for Advanced Microstructures and Devices (CAMD), the Office of Technology Transfer, the Center for Coastal, Energy, and Environmental Resources, the Museum Complex, the Office of Sea Grant Development, the LSU National Ports and Waterways Institute, the Office of International Development, and the Louisiana Space Consortium.

In addition, the office coordinates the nonformula component of the budget and acts as liaison to the legislature in this area. The office also coordinates the LSU Congressional/Federal agenda, keeping our congressional delegation abreast of research issues at the University. All activities of the LSU Council on Research and the Remote Sensing and Geographic Information Systems Coordinating Council are also handled in this office.

**Office of Student Services**

The Office of Student Services is concerned with the quality of student life on campus. The division provides cultural and recreational activities, career and psychological counseling, housing and dining services, bookstore and health services, as well as peer and professional advice concerning student adjustment to life at the University.

Reporting directly to the Vice-Chancellor for Student Services are the Career Planning, Placement, and Co-op Center; the Dean of Students; Residence Food Service; the LSU Union; Residential Life; and the Student Health Center.

Reporting to the Assistant Vice-Chancellor and Dean of Students are the International Student Office, the Office of Greek Affairs, the Coordinator for Students with Disabilities, and the Coordinator for Minority Student Services.

Reporting to the Assistant Vice-Chancellor and Director of Student Health are the Division of Recreational Sports and the Office of Student Media.

The Faculty Club and the International Cultural Center report to the LSU Union.

**Office of the Athletic Director**

The Athletic Director manages a broad spectrum of intercollegiate sports programs for men and women. Louisiana State University is a charter member (1932) of the Southeastern Conference. LSU meets teams from other major universities in NCAA Division IA competition in football, basketball (M&W), 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, and women's volleyball.

Women's soccer will be added as a varsity sport in the fall of 1995 and women's softball in the spring of 1997.

**Office of Public Relations**

The Office of Public Relations includes four divisions whose functions are to inform the public of the University's activities, accomplishments, policies, and plans. The staff of Electronic Media produces radio and television feature material in the form of audio and video tapes for broadcast throughout Louisiana and the adjoining region. The News Service staff prepares and distributes news releases, feature stories, television news films, and photographs to newspapers, wire services, radio and television stations, journals, and other periodicals. The Publications staff designs, edits, and oversees the production of all official University publications. The Photography section handles photographic coverage for the news service staff and provides photographs for University publications. Photographic services are also available to faculty and staff.
EQUAL EMPLOYMENT OPPORTUNITY

LSU assures equal opportunity for all qualified persons regardless of race, color, religion, sex, age, national origin, physical or mental disability, or veteran’s status in the admission to, participation in, and treatment or employment in University programs and activities.

LSU firmly supports the national policy of Affirmative Action/Equal Employment Opportunity.

FINANCES

Because it is a state-supported institution, LSU receives most of its funds from legislative appropriations. The budget for 1994-95, including the School of Veterinary Medicine, totaled $214,457,076.

These funds, expressed in millions of dollars, came from:

<table>
<thead>
<tr>
<th>Source of Revenue</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>State appropriations</td>
<td>$118.4 million</td>
</tr>
<tr>
<td>Student fees</td>
<td>7.1 million</td>
</tr>
<tr>
<td>Other sources</td>
<td>24.8 million</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$214.5 million</strong></td>
</tr>
</tbody>
</table>

Area of Expenditure | Amount
--- | ---
Instruction | $97.8 million
Research | 24.9 million
Public service | 2.3 million
Operation and maintenance | 23.4 million
Academic support | 18.9 million
Institutional support | 19.3 million
Libraries | 7.6 million
Student service | 5.3 million
Scholarships and fellowships | 14.8 million
Debt service and transfers | 0.2 million
**Total** | **$214.5 million**

The estimated worth of the physical plant of LSU and A&M College, including certain LSU Agricultural Center facilities, is $715.2 million. LSU’s annual operating budget totals approximately $214.5 million. Not included in the above is approximately $60 million of grant and contract funds that are restricted in their use. These funds are received from federal, state, and private sources.

In addition, the University needs about $73.6 million to operate its auxiliaries (student housing, food services, Union, etc.). Capital construction for auxiliary operations is funded through the issuance of bonds liquidated through the operation of such units.

General-use buildings are usually funded by the Legislature through the state Office of Facility Planning and Control.

THE FUTURE: PARTNERSHIP IN PREEMINENCE

The University’s strategic plan for the future calls for the generation, preservation, dissemination, and application of knowledge and cultivation of the arts to benefit the people of the state, the nation, and the global community.

In implementing this plan, LSU is committed to:
- the highest standards of excellence in teaching, research, and public service;
- academic freedom and participatory governance;
- honesty, fairness, responsible stewardship, and ethical behavior;
- a climate conducive to cooperation among people of all races, faiths, and philosophies; and
- an environment that promotes innovation and discovery.
The State of Louisiana Board of Regents, in its “Master Plan for Higher Education,” designated LSU as Louisiana’s single “comprehensive university.” It 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. Bachelor’s degrees are offered in 72 major fields, master’s degrees are offered in 77 major fields, and doctoral degrees are offered in 55 major fields. The professional D.V.M. degree is offered through the School of Veterinary Medicine.

The University has no more important mission than to provide its undergraduates 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.

**IMPORTANCE OF UNDERGRADUATE EDUCATION**

The LSU undergraduate has the opportunity to experience a rich diversity of courses, curricula, students, faculty, and settings which 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, where students are aware of the most recent discoveries and are taught innovative modes of inquiry.

LSU’s mission, commitment, guiding principles, and strategic plans are centered on the following concepts:

- The purpose of instruction is to instill in students an appreciation of knowledge and to prepare them to lead responsible lives and pursue productive careers.
- Research is conducted to explore the boundaries of human knowledge.
- Public service permits the transference of this knowledge into practical application to benefit the people of Louisiana, the nation, and the world.

During the 1980s, LSU instituted programs and services to expand its undergraduate mission. In 1984, the University announced its plan to be the first higher education institution in Louisiana to implement selective admissions. In 1988, the first class was admitted which met these standards, which are among the most rigorous preparatory course requirements in the country.

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 not hurdles to be overcome; rather, they are the means by which students learn to think, describe, interpret, and analyze the world. Their primary aim is to educate, rather than train, and to instill a desire for lifelong learning. Specifically, these courses are designed to produce students who have developed:

- an effective command of written and spoken English;
- an informed appreciation of the roles of the arts and the humanities;
- a familiarity with the nature and function of the social sciences;
- an appreciation of the methods of critical inquiry;
- an ability to deal with moral and ethical issues;
- a rational basis for selecting a vocation;
- an understanding of other cultures and other times; and
- a comprehension of how knowledge is acquired and applied.

To fulfill the requirement, students must complete 38 hours of course work in six major areas:

- English composition (six hours)
- Analytical reasoning (six hours)
- Arts (three hours)
- Humanities (nine hours)
- Natural sciences (eight hours)
- Social sciences (six hours)

**UNDERGRADUATE ACADEMIC DIVISIONS**

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 Junior Division where they either declare a major or examine educational and career alternatives while completing the general education requirement.

To complete degree requirements, students must meet the admission requirements of a senior or degree-granting college.

Students select from degree programs offered by ten senior colleges: the College of Agriculture, the College of Arts and Sciences, the College of Basic Sciences, the College of Business Administration, the College of Design, the College of Education, the College of Engineering, General College, the School of Music, and the Manship School of Mass Communication.

**Major Undergraduate Fields and Degrees**

**College of Agriculture**
- Bachelor of Science
- Bachelor of Science in Forestry

**College of Arts and Sciences**
- Bachelor of Arts
- Bachelor of Arts in Mass Communication
- Bachelor of Science

**College of Basic Sciences**
- Bachelor of Science
- Bachelor of Science in Geology

**College of Business Administration**
- Bachelor of Science

**College of Design**
- Bachelor of Architecture
- Bachelor of Fine Arts
- Bachelor of Interior Design
- Bachelor of Landscape Architecture

**College of Education**
- Bachelor of Science

**College of Engineering**
- Bachelor of Science in Biological and Agricultural Engineering
- Bachelor of Science in Chemical Engineering
- Bachelor of Science in Civil Engineering
- Bachelor of Science in Electrical Engineering
For in-depth information concerning ROTC, LSU-SU programs, cooperative education, and programs for nontraditional students, see Academic Programs. Courses for the Reserve Officers Training Corps, "LSU-Southern University Cooperative Programs," "Student/University Services," and "Division of Continuing Education" in this catalog.

SPECIAL ACADEMIC PROGRAMS

Orientation and counseling services enhance the quality of the undergraduate experience and increase the proportion of students who graduate. Academic, career, and personal counseling is available in the Office of Undergraduate Admissions; Junior Division; senior academic colleges; academic departments; residence halls; Office of the Dean of Students; the Career Planning, Placement, & Co-op Center; and the Student Health Center. Special orientation programs for entering students include testing, placement, orientation, and registration information.

Students with potential for superior academic performance can find challenge in the Honors Program. The Honors College provides special opportunities in the form of course work, lectures, and advanced seminars, and also offers the opportunity for performing independent research. For additional information, see the "Honors College" section in this catalog.

The Learning Assistance Center offers a wide variety of services to assist students—graduate and undergraduate—in increasing their learning potential. Available in the center are audio and video tapes, computer-assisted instruction, and resource materials to assist independent academic learning. Campus tutoring programs, including the English Writing Assistance Program and the Math Supervised Study Program, offer a wide variety of workshops, seminars, and individual assessments.

Student Support Services is a federally funded program that provides academic, personal, career, and financial counseling to individuals who have an academic need and may be first-generation or low-income college students. Students with learning disabilities may also qualify for this program by furnishing proper documentation. Tutorial services are available to enhance the probability of graduation. (See the "Student/University Services" and "Junior Division" sections in this catalog for additional information.)

International students are assisted in their adjustment to American culture and the university environment through special programs and counseling offered by the International Student Office. English placement tests are arranged for non-native English speakers to determine appropriate placement in 1000-level English courses and to recommend the number of courses in which students with English language deficiencies may be limited.

The LSU Evening School consists of four units: Evening School, Intersession, Off-Campus Programs, and the PASS Program. Evening School offers students opportunities to obtain college degrees by attending courses at night and on weekends. Students may work toward undergraduate degrees in computer science, English, general business administration, general studies, history, mathematics, political science, psychology (B.A. or B.S.), sociology, or vocational education, or a Master of Arts in Humanities degree. Courses may be taken for degree credit or audited. These courses are offered on the LSU campus and at sites in East Baton Rouge Parish.

Intersession offers a variety of courses during an intensive five-week period between the spring semester and summer school. Courses taught during Intersession are open to PASS students and to regularly admitted students in good standing. With special permission, students not in residence at LSU may also take courses during Intersession.

Off-Campus Programs are offered throughout the state. A Master of Library and Information Science degree is offered at varied locations throughout the state, a master's degree in petroleum engineering is offered in New Orleans, and a doctorate in education is offered in Shreveport.

There are also courses offered through cable television via the Telelearning Network, which allows one instructor to communicate with students at remote locations throughout the state via telephone lines that provide verbal and visual contact.

In addition to the above, there is also a program sponsored by the U.S. Army Corps of Engineers at the Waterways Experiment Station, located in Vicksburg, Mississippi. This represents a consortium of LSU, Texas A&M, and Mississippi State University, each of whom provides graduate courses in various scientific and technical fields.

The Program for Adult-Special Students (PASS) allows those who have not been enrolled in high school or college during the past calendar year, and who do not plan to work toward a degree, to schedule courses for credit without submitting the usual scholastic credentials needed to determine admission to the University. A PASS student may schedule as many as nine semester hours in a semester and may earn as many as 24 semester hours of credit in this status. Students who decide to work toward a degree after their enrollment after completion of 24 semester hours in the PASS program must apply for regular admission or an extension of PASS enrollment. Students applying for regular admission to the University must submit complete, official, scholastic records from all institutions attended. Credit and grades earned in this program are used in determining eligibility for admission as a regular student and are included in the student's official record. Students in this program over 65 years of age receive a waiver of the University fee.

PASS is not designed for international students or students who plan to apply for veteran's benefits or financial aid. These students should apply to the regular full-time programs.

The Evening School provides counseling for all students in the PASS Program.

Finally, there are other special programs of study that are offered through the school, including the Evening School and the Certificate Program (Baton Rouge, New Orleans, and Alexandria) and the CPA Preparation Program (Baton Rouge only).

For additional information, contact LSU Evening School, 388 Pleasant Hall, LSU,
Academic Programs • Services

Baton Rouge, LA 70803 or call (504) 388-5213.

The Division of Continuing Education offers instruction for persons who are not in residence on any LSU campus through off-campus classes, correspondence study, short courses, conferences, seminars, and other specialized instructional programs.

In an effort to ensure success in sports and academics, the Academic Center for Athletes offers career, academic, and personal counseling tailored to the needs of student-athletes.

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
- Arts & Sciences Humanities Lecture Series
- Bicentennial Commemoration Lectureship in Chemical Engineering
- College of Design Lecture Series
- J. Norman Efferson Lectureship Series
- Festival of Contemporary Music
- Walter Lynwood Fleming Lectures in Southern History
- Freeport Chemical Company Lectureship in Chemical Engineering
- Frank J. Germano Lecture Series on the Practice of Civil Engineering
- Max Goodrich Distinguished Speaker Series in Physics and Astronomy
- Giles Wilkeson Gray Lecture Series in Speech
- J. C. Greer Lecture Series
- Holt B. Harrison/Harrison Paint Co./Elmira H. Harrison Lectureship
- Walter Hitesman Lecture Series in Mass Communication
- Hubert H. Humphrey Lectureship in Public Affairs
- Thomas Austin Kirby Lectures in the Humanities
- J. W. Kistler Conference
- William A. Lawrence Lecture
- School of Library and Information Science Beta Phi Mu Award Series
- Oceanography & Coastal Sciences Distinguished Lectureship Series
- Master Teacher Forum, R. J. Russell Lectures in Geography
- Edward Douglass White Lectures
- L. J. Wilbert Memorial Lecture in Geology
- School of Music—Throughout each year, the School of Music presents a comprehensive series of concerts involving faculty soloists; symphony; wind ensemble; jazz, gospel, choral, and chamber music; and opera.
- LSU Theatre presents six major productions each year, as well as a "Second Season" of student-directed presentations.
- Swine Palace Productions, a professional theatre company, offers productions in the fall and spring, in association with LSU Theatre.
STUDENT • UNIVERSITY SERVICES

The University is committed to the concept of student growth and development through active participation in co-curricular activities and organizations. Through participation, it is expected that students will maintain and develop their physical and mental health, their sense of self-worth, their ability to work with and lead others, their understanding of citizenship obligations, their ethical and moral value system, their concern for the campus environment, their ability to think critically, and a sense of belonging to the University community. In order to foster the development of these qualities, a comprehensive program is offered. Additional information may be obtained from the Office of the Vice-Chancellor for Student Services.

OFFICE OF THE DEAN OF STUDENTS

The Office of the Dean of Students is an administrative unit that serves in an advocacy, advising, and supervising capacity for individual students and recognized student organizations, as well as for the Student Government. The office also serves as a clearing-house for student concerns, questions, problems, and complaints and manages the University judicial system.

The Associate Dean & Director of Orientation Programs administers programs for entering freshmen, transfer students, and parents; conducts assessment and research programs; and oversees the development of student leadership.

Two staff coordinators enable the office to promote maintenance of ethnic diversity and to support students with physical or functional limitations (sight, hearing, learning, mobility), as well as those with specific health problems.

The Office of Minority Services assists minority students with academic, cultural, moral, and social development through advising and programs sensitive to a particular group. The Office of Services for Students with Disabilities assists students in identifying and developing accommodations and services to help overcome barriers to the achievement of personal/academic goals.

Students With Disabilities

The Office of Services for Students with Disabilities (SSD) provides services to students with temporary or permanent disabilities. Specialized support services are based on the individual student’s needs. Students with disabilities should contact the office early so necessary accommodations can be arranged. The office is located in 122 Johnston Hall, (504) 388-4307 (voice) or (504) 388-2600 (TDD).

Minority Student Services

The Office of Minority Student Services provides programs of support and opportunities for participation to students from under-represented groups. Personal, social, and academic counseling, and cross-cultural programs are available. This office sponsors LSU’s annual Martin Luther King Commemoration Celebration and Genesis, a student peer advising group. The Office of Minority Student Services is located in 122 Johnston Hall (504) 388-4307.

The African American Cultural Center is also administered by the Office of Minority Student Services. Located on Raphael Semmes Road, it is an educational, cultural, and activity center, funded and governed by African American students. For additional information call (504) 388-1627 or 388-1504.

CAREER PLANNING, PLACEMENT, AND CO-OP CENTER

The Career Planning, Placement, and Co-op Center assists students in making career choices, exploring career opportunities, sharpening job search skills, and finding jobs.

Career assessments, individual counseling, computerized career guidance, a career information center, and career days are provided to help students make career decisions and/or to explore a career already chosen.

Students are encouraged to gain work experience through programs such as cooperative education, summer work, part-time work, and internships.

In addition to the career decision and exploration services, the center provides extensive assistance with job search skills. Services include workshops, written and audiovisual materials, and personal counseling. The center also disseminates information concerning available jobs and handles all arrangements when employers visit the campus to interview students.

Cooperative Education

The Cooperative Education Program allows students to combine on-campus course work with paid on-the-job training throughout the U.S. through employment in business, industry, or government agencies. The program is particularly applicable to majors in the Colleges of Agriculture, Basic Sciences, Business Administration, and Engineering. Students with majors in other colleges may be accommodated if employment opportunities are available. Requirements for participation are:

- completion of the freshman year
- a declared major
- a 2.40 minimum grade-point average
- a commitment to complete a minimum of three work rotations, which normally include two regular semesters and one summer term

Students are enrolled at LSU during work semesters.

Transfer students with qualifying grades who have at least four semesters of academic work remaining are eligible to apply for the Co-op Program after one semester of full-time work at LSU.

Complete information is available from the Cooperative Education Office, B1 Coates Hall (388-1548).

INTERNATIONAL STUDENT OFFICE

The International Student Office (ISO) is located in 111 Johnston Hall, on Fieldhouse Drive; telephone (504) 388-3191, FAX (504) 388-4820. The office staff provides advisory services to international students regarding their educational, financial, immigration, personal, and social concerns. The office also assists with campus intercultural activities that contribute to the cultural environment of the community. The ISO is
responsible for approving admission of non-immigrant students on financial and immigration bases. The ISO prepares all documents necessary for international students to achieve or maintain proper nonimmigrant status in the U.S. and organizes an orientation program for all new international students. All nonimmigrant students seeking permission to work on or off campus must receive approval or recommendation from this office.

The office coordinates the University’s international student services and programs with community organizations, faculty and student study abroad programs, and governmental and private agencies. Emergency loans for international students and a limited number of partial scholarships for international freshmen with high ACT or SAT scores are also administered by this office. The International Student Office provides information and counseling to LSU students who are interested in study, travel, or work overseas. The office also administers the International Student Exchange Program, awards the LSU student abroad (Fulbright Program), and issues international student ID cards.

**STUDENT HEALTH CENTER**

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). Facilities include a large outpatient medical clinic, a full-service pharmacy, a laboratory, an X-ray department, mental health services, and a wellness education department. As part of the Student Health Center fee paid during registration, students are entitled to unlimited visits to a primary care physician and the Wellness Education Department. The first three visits to the Mental Health Service are also included in the pre-paid fee. Any subsequent visits to mental health are based on a sliding fee scale after consultation with the patient. There are nominal charges for lab, X-ray, medication, supplies, and specialty clinics.

The Student Health Center Medical Clinic has six full-time primary care physicians, one part-time gynecologist, and 12 nurses. In addition, part-time specialty services are offered in orthopedics, dermatology, ear/nose/throat, and ophthalmology. These clinics are staffed by local specialists who are contracted by the Student Health Center. A dental screening clinic is available, but no dental procedures are performed on the premises. Routine allergy shots and injectable medicines ordered by physicians are provided.

The LSU Mental Health Service provides crisis intervention, individual and group therapy, psychological testing, and varied preventive therapy clinics on a continuing basis. These services are rendered by health care providers experienced in treating emotional problems and stresses experienced by University students.

The Student Health Center also has an extensive Wellness Education Department that provides a resource room and personal consultations on healthy nutrition, substance abuse, stress management, sexual issues, personal fitness, and many other areas of concern to university students. Group educational programs and large campus awareness events are available throughout the academic year.

**OFFICE OF STUDENT MEDIA**

The Office of Student Media oversees the operation of KLSU-FM, the Gumbo yearbook, the Legacy magazine, the Daily Reveille, and LSU-TV. These provide information and entertainment to students, faculty, and staff while providing training for students interested in all areas of publishing and broadcasting.

The Daily Reveille, the University’s award-winning, student-edited newspaper, is published Tuesday 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 at the end of the spring semester. Students also edit and publish the LSU student magazine, the Legacy, which is distributed on campus twice each semester. KLSU-FM is a 5,000-watt educational FM station operated by students 18 hours a day, 7 days a week. LSU-TV produces a variety of television programming for the LSU Campus Cable System.

**HONORARY SOCIETIES**

Three of the most prestigious University honor societies are Phi Kappa Phi, Phi Beta Kappa, and Omicron Delta Kappa.

**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. Omicron Delta Kappa 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 such 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, 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 in the College of Arts and Sciences and the College of Basic Sciences with an excellent academic record are considered for election. Phi Beta Kappa election criteria emphasize breadth in a student's course of study, in addition to an overall excellence.

**Phi Kappa Phi**

Phi Kappa Phi, a national scholastic honor society founded in 1897, now contains 243 chapters nationwide. It is one of the most prestigious scholastic honor societies in the profession. The LSU chapter was founded in 1930 as the 43rd chapter in the nation. At the present time, the national office is located on this campus in the French House.

The primary objectives of Phi Kappa Phi are to promote the pursuit of excellence in higher education and to recognize outstanding achievement by students and faculty through election to membership and through various awards and fellowships. Phi Kappa Phi is unique because it recognizes superior scholarship in all academic fields, rather than restricting membership to a limited field. Undergraduates and graduate students who rank in the top 10 percent of their graduating 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.

**STUDENT ORGANIZATIONS**

Student organizations may be added or deleted from the list of approved organizations after publication of the General Catalog. A complete and accurate list of approved student organizations is available in the office of Student Organization Services, LSU Union.

University recognition of a student organization does not imply control of, support for, or agreement with the organization’s purposes, goals, or philosophy. Participation in student organizations is voluntary.

**Religious Church Centers**

- Assembly of God
- B'nai Israel Temple
- Baptist Student Center
- Catholic Student Center
- Chapel of the Cross, University Lutheran Center
- (The) Chapel on the Campus
- Christian Science Organization
- Church of God
- Church of Jesus Christ of Latter Day Saints
- Episcopal University Center (St. Alban's Chapel)
- First Christian Church
- First Pentecostal Church
- First United Methodist Church
- Jewish Federation of Greater Baton Rouge
- (LSU) Hillier Foundation (Jewish)
- Muslim
- St. Paul's Lutheran Church (ELCA)
- South Baton Rouge Church of Christ
- Unitarian Church
- University Baptist Church
- University Methodist Church
- University Presbyterian Church

**Religious Student Organizations**

Baptist Student Union
Water Polo  
Water Ski Club  
Wildlife Society (student chapter)  
WLSU-TV  
Women Organizing Women  
Writers' Bloc  
Zoology & Physiology Graduate Student Organization

Student Government  
Residence Hall Association  
Student Government

OFFICE OF GREEK AFFAIRS

The Office of Greek Affairs provides support for individuals and organizations that comprise the Greek community at LSU. The staff of the office develops, implements, and coordinates programs and services that address member education, personal development, academic success, philanthropic activities, leadership development, and social activities.

Fraternities

Acacia  
Alpha Gamma Rho  
Alpha Phi Alpha  
Alpha Tau Omega  
Delta Chi  
Delta Kappa Epsilon  
Delta Tau Delta  
Kappa Alpha Order  
Kappa Alpha Phi  
Kappa Sigma  
Lambda Chi Alpha  
Phi Delta Theta  
Phi Gamma Delta (Fiji)  
Phi Kappa Psi  
Pi Kappa Alpha (Pike)  
Sigma Alpha Epsilon  
Sigma Chi  
Sigma Nu  
Sigma Phi Epsilon  
Tau Kappa Epsilon

Sororities

Alpha Kappa Alpha  
Chi Omega  
Delta  
Delta Gamma  
Delta Sigma Theta  
Delta Zeta  
Kappa Alpha Theta  
Kappa Delta  
Kappa Gamma  
Kappa Zeta  
Phi Mu  
Pi Beta Phi  
Sigma Alpha  
Zeta Phi Beta  
Zeta Tau Alpha

RESIDENTIAL LIFE

To make on-campus living a worthwhile experience, LSU students and staff have designed a residential life program to promote overall educational growth. Students living on campus become part of the University to a greater extent than is possible when living off campus. Residence halls and apartments provide a natural and convenient social setting for students, because residents are seldom more than a 10-minute walk from the library, the classroom, or any other campus activity.

A second advantage of residence hall life is the staff of counselors available to assist with study and problems. Studies show that campus residents maintain higher grade-point averages than off-campus students. The housing staff also provides programs about alcohol and drug abuse, rape awareness, self defense, and stress and time management.

University housing is available to all full-time and part-time students on a voluntary basis. Most reservation fee requests (based on the date of application for University housing and the terms of the housing contract) are granted.

Choices In Residential Living

LSU has 19 residence halls with architectural styles ranging from northern Italian Renaissance, typical of the older campus, to modern, high-rise buildings.

Most residence halls have ground-floor reception areas and private study rooms on each level. Con and card access laundry facilities are available in most, while others have laundries located nearby. Most halls are accessible to the handicapped. An added attraction in many halls is the availability of computer terminals. Each room also has a telephone and cable television hook-up. However, residents must either rent telephones and televisions, or bring their own. Cable TV carries a semester fee.

Students in residence halls may decide to have roommates or a private room. More than 800 students chose private rooms last year. Living arrangements have been established with individual preferences for social and educational development in mind.

Students may select hours of visitation as early as 10 a.m. daily, with the period terminating by 1 a.m. on nights preceding class days or 3 a.m. on nights preceding days when no classes are held. Quiet hours are observed daily from 7 p.m. to 7 a.m., during which time an atmosphere conducive to study is maintained.

Residence Hall Applications

A student must submit a completed application form to the Department of Residential Life, 99 Grace King Hall, LSU, Baton Rouge, Louisiana 70803. New students are advised to apply 10 months in advance to ensure receipt of requested accommodations. An application and related information may be obtained directly from this office or by requesting this information on the application for admission.

A reservation fee of $100—payable to "Residential Life, LSU" in U.S. funds by check or money order—must accompany each residence hall application. Acceptance of a reservation fee does not guarantee an assignment.

Students may apply for housing prior to being admitted to the University. Acceptance of a residence hall application or receipt of an assignment is not a guarantee of admission to the University. An application for admission must be approved by the Office of Undergraduate Admissions before a room assignment is official.

Cancellation of an application/assignment must be submitted in writing to the Department of Residential Life. If the cancellation is received by July 1 for the fall semester, December 15 for the spring semester, or May 15 for the summer term, the processing fee of $25 will be deducted from the reservation fee, and the remainder will be refunded. If the cancellation is received after July 1 for fall, December 15 for spring, or May 15 for summer, or if the assignment is not claimed during registration, the room reservation fee will be forfeited unless all requirements for evaluation of the 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 with notice, and termination of occupancy of rooms. Reservations are not transferable. If the room is not occupied by the last day of registration, 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 Rates

LSU provides housing for approximately 4,800 students in both air-conditioned and non-air-conditioned residence halls. Rates for residence halls, effective the fall semester of 1995, vary from $620 to $1,060 per semester for each occupant of a room occupied to its normal capacity. 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 at the same rental charge in the same residence hall. Rooms are available for single occupancy. The charge for single occupancy of a two-student room is 1.5 times the semester rate for full occupancy. Semester rental rates are subject to change at the beginning of a regular semester or summer term.

Residence hall rent is payable at registration. Further information concerning residence hall accommodations may be obtained from the Department of Residential Life, 99 Grace King Hall.

University Apartments

The University has 578 two- and three-bedroom apartments that are available for families and for single, upperclass, and graduate full-time students.

Rental rates for the past academic year ranged from $280 to $330 per month. Information on this type of housing is available from the Department of Residential Life, Assignment Office, 99 Grace King Hall.

Refund of Residence Hall Rent

Students contract for space in a residence hall on an academic year basis. The contract is effective as of the date the student pays fees or defers payment of fees during registration for classes at the start of a semes-
ter or summer term. 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.

- A student who moves from one room to another in a residence hall or from one residence hall to another will be refunded or charged the difference, if any, between the unused prorated portions of rent for the two spaces.
- A student who moves out of a residence hall and resigns from the University will be responsible for 25 percent of the rent for the remainder of the contract for the space he or she was occupying.
- A student who moves out of a residence hall without resigning from the University will be responsible for 75 percent of the rent for the remainder of the contract for the least expensive space.
- A student who moves out of a residence hall into a fraternity or sorority house before the close of business on the last day of the regular fall registration period will be refunded all of the unused portion of rent for the space he or she was occupying. If such a move is made after the last day of regular registration (the last day of fall registration, if on an "Academic-Year Rental Terms" agreement), the student will receive a refund as noted in the paragraph above.
- A student who is required to move out of a residence hall as a result of disciplinary action will be responsible for 75 percent of the rent for the remainder of the contract for the least expensive space.

DINING PLANS OFFERED BY RESIDENCE FOOD SERVICES

Students are offered the choice of the following semester dining contracts:

- **15-Meal Plan** (three meals a day on University class days)—approximately $775 per semester.
- **10-Meal Plan** (any two of the three meals served above)—approximately $650 per semester.
- **Academic Year Contract** (with 10-Meal Plan)—approximately $625 per semester.

Declining Balance/Debit Card Account (Lagniappe Dining)

Instead of, or in addition to, one of the contracts listed above, students may choose a debit card account for dining. Funds on deposit are available for the purchase of meals and snacks at multiple campus locations. Each time a purchase is made, the amount of the transaction is electronically deducted from the account using the student’s LSU ID card to process the sale. Students are advised of the balance remaining in the account following each purchase.

Dining plan rates are subject to change at the beginning of a semester or summer term.

Special diet services, administered by a licensed dietician/nutritionist, are offered at Highland dining unit at an additional charge for students requiring diet modifications. A physician’s prescription is necessary.

- Only newly enrolled freshmen who live in University residence halls are required to participate in a University dining plan, except as provided below.
- Part-time students, as defined by this General Catalog.
- Students who are released to participate in a fraternity or sorority dining plan on the basis of fraternity or sorority membership.
- Students who have been employed full-time, including military service, for a period of 18 months prior to enrolling in the University and following high school graduation.
- Students who have a conflict with work and class schedules that does not permit taking meals at the regular serving times and who cannot be otherwise accommodated by the Office of Residence Food Services.
- Students who have specialized medical diets prescribed by a physician that cannot be provided through University food services.

Requests for exemptions on the bases described above should be submitted to the Director of Residence Food Services.

Any student who has completed one regular semester (excluding the summer term) is not required to participate, but is invited and encouraged to do so. All other students—part-time or full-time, off-campus or on-campus—may also purchase a dining plan contract on a semester basis.

For more information about dining plans, please contact Residence Food Services, P.O. Box 16270-A, Baton Rouge, Louisiana 70893, or call (504) 388-6642.

Dining Plan Refunds

All students who contract (register and pay fees) for a dining plan are required to participate for 20 class days, except for official resignation from the University or for transfer to the Greek dining system. Students who officially withdraw from the University during the first 20 class days will receive a refund equal to the unexpended portion of the dining plan less a $30 processing fee. The processing fee will not be refunded.

After 20 days, eligible students who cancel the dining contract and remain enrolled or students who officially withdraw from school will be refunded 75 percent of the unexpended portion of the dining contract charge.

Refunds of dining contracts processed after midsemester are subject to an assessment of 50 percent of the unexpended portion of the dining plan charge. No refunds will be processed once concentrated study period begins.

FACULTY CLUB

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 Faculty Club, located on Highland Road, may also be used by the University community and is open to the general public. The dining room is open for lunch from 11:30 a.m. to 1:30 p.m., Monday through Friday. Conference rooms are available for meetings and luncheons during regular club hours. The club is also open for special events by reservation and functions are available to University departments and the public for persons visiting the campus.

ATHLETIC FACILITIES

Athletic facilities include a football stadium, Tiger Stadium, with a seating capacity of 80,150; four lighted football practice fields; an indoor football practice facility; a lighted metric track, Bernie Moore Stadium, with eight-lane, tartan track and accommodations for 5,680; a lighted baseball complex, Alex Box Stadium, with seating for 7,000; and six lighted tennis courts with an elevated grandstand.

The LSU Natatorium, completed in 1985, provides an eight-lane Olympic-size indoor pool and diving well. The Maravich Assembly Center, a multipurpose facility, seats 14,237 and is the home court for the men’s and women’s basketball teams, women’s gymnastics, and women’s volleyball. The 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 the varsity football, baseball, track, and tennis teams. It is also used for teaching, organized recreational activity, and leisure-time activity for the University community.

LSU has hosted the NCAA Track and Field Championships three times. The NCAA baseball regional tournament has been played five times at Alex Box Stadium. In addition, the basketball NCAA Mideast Regionals, first-second rounds, and SEC Tournament have been played in the Maravich Assembly Center.

DIVISION OF RECREATIONAL SPORTS

The Division of Recreational Sports provides all members of the University community access to a variety of recreational sports activities. To meet the diverse needs and interests of the University community, a multifaceted recreational sports program is offered that includes aquatics, sports clubs, informal recreation, instructional sports, intramural sports, extramural sports, outdoor recreation, special event activities, and sports medicine.

The division also coordinates use of the Gym Armory Building, the Huey P. Long Swimming Pool and Complex, the Recreation Center-Special Olympic Swimming Pool, the Outdoor Tennis Complex, a number of field spaces on campus, and the new Student Recreational Sports Complex. In addition, a wide
variety of sports and outdoor recreation equipment is available for use on a check-out or rental basis. The aquatic program is designed to meet the needs of individuals interested in water activities. Certified personnel offer guidance for all skill levels. Hours are also available for recreational and fitness swimming activities.

The informal recreation program provides space and time for individuals who desire to participate informally on a drop-in basis in a sport or exercise program.

The instructional sports program provides opportunities for individuals to take classes taught by qualified instructors in a variety of sports activities. Classes are non-credit and include sports activities such as SCUBA, karate, racquetball, golf, tennis, swimming, and aerobics.

The intramural sports program provides various levels of competition in more than 36 different sports through leagues, tournaments, and meets. The intramural program offers team, dual and individual sports offered throughout the year. Some of these activities are flag football, basketball, softball, volleyball, racquetball, handball, tennis, badminton, swimming, track, golf, and floor hockey.

The outdoor recreation program provides an opportunity for the University community to develop an understanding and appreciation for the outdoors. A number of trips and seminars are scheduled each semester to assist in this development.

The special events program is designed to serve particular recreational interests and needs. Programs vary in structure and include organized events such as triathlons, biathlons, 5K and 10K runs, and mini-golf tournaments.

The sports medicine program varies from self-motivated fitness activities to rehabilitative exercise programs. Athlete training are available to assist and instruct individuals on safe athletic practices and rehabilitative exercise programs.

The sports club program provides opportunities for exercise, recreational and social fellowship, competition both on- and off-campus, and learning new skills and improving existing ones. Some of the active clubs include rugby, soccer, fencing, water skiing, wrestling, taek won do, karate, and mountain bike cycling. The office also maintains records, establishes schedules, develops and interprets rules and policies, and supplies officials as needed.

In the fall of 1992, the Student Recreational Sports Complex opened its doors to the LSU community. This 112,000 square foot recreational sports facility provides students the opportunity to be active sports participants during their leisure hours. For additional information and membership, call the Division of Recreational Sports (388-8601).

THE LSU UNION

The LSU Union, through its student committees and staff, presents a wide range of events designed to appeal to all segments of the University community. Full-time students are automatically members of the Union. Faculty, staff, alumni, and friends of the University may become members by paying an annual fee. Any full-time student is eligible to sit on a Union committee; there are additional requirements to hold an office on the Governing Board or Program Council. Information on programs and committees is available in 304 Union Building.

The University's facilities are designed to meet the needs of the community they serve. In the Art Gallery may be found shows of international, national, or regional interest, including student and faculty works. The Crafts Center provides professional instruction and consultation in ceramics, glass, weaving, woodturning, pottery, and metalsmithing. The main lobby provides space for relaxing and visiting. The gallery is open Monday through Friday, 9 a.m. to 4:30 p.m., and Saturday, 9 a.m. to 2 p.m.

The Auditorium facilities include the 353-seat Colonnade Theater and the 1,315-seat LSU Union Theater, which serve as centers for the performing arts at LSU. Many of the programs in these auditoria are sponsored by student committees. These committees and other bargains in the LSU Union, which is open to all members of the LSU community, are available to the public. The LSU Union offers a full-service restaurant, the Plantation Room, which offers daily table service and a wide variety of affordable menu selections including buffets on Monday, Tuesday, Thursday, and Sunday. The Union's catering service furnishes on- and off-premise banquet catering for groups of 12 to 1,000 persons and also specializes in wedding receptions, parties, and other catered gatherings.

The International Cultural Center, 3365 Dalrymple, also administered by the LSU Union, is a cultural and activity center funded and governed by international students. Space is available for overnight accommodations for newly arrived students and other international guests. For reservations, call (504) 342-3084.

PARKING, TRAFFIC, AND TRANSPORTATION

LSU is committed to providing ample on-campus parking for all students, employees, and visitors. LSU ownership of a campus, faculty, staff, and students must register with the Office of Parking, Traffic, and Transportation. For additional information, call 388-5000.

POSTAL SERVICE

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 office is located in the LSU Union, which is open to all members of the LSU community.

A post office box may be rented for the year or for one or more quarters. Post office boxes may be shared by spouses, brothers, and/or sisters having the same last name. Rental fee information may be obtained by writing to the 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. Mail to campus departments should carry the 70803 zip code.

All mail must be addressed to the student's box number since the University does not provide mail service to residence halls.

"Special Delivery" and "Express Mail," however, will be delivered to residence halls if it is so addressed. Delivery service to the University-owned apartment complexes on West Roosevelt Street and Nicholson Drive is provided by the U.S. Post Office, 750 Florida Blvd., Baton Rouge, Louisiana 70802.

PUBLIC SAFETY

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

The University Police Department is staffed 24 hours a day. Police officers assigned to patrol areas throughout the campus will respond promptly to any call and have the capacity to request municipal fire, EMS, or police support, as required. The department has 60 full-time officers and each has completed a minimum of 285 hours of formal police training and is certified by the Police Officers Standards and Training Council. The department provides a full range of law enforcement services, including criminal investigations, emergency services, and crime prevention services, for a campus population larger than most cities in the state. Administrative responsibility for safety, security, and police service rests with the Vice-Chancellor for Business Affairs, through the Director of Public Safety.
UNDERGRADUATE ADMISSION

ADMISSION PHILOSOPHY

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

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 M.B.A. 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

Requests for information and application forms for admission or re-admission should be directed as follows:

• Undergraduate •
  Office of Undergraduate Admissions
  110 Thomas Boyd Hall

• Graduate •
  Graduate Admissions
  131 David Boyd Hall

• Professional •
  School of Veterinary Medicine
  1102 Veterinary Medicine Building

Application packets are routinely sent to students who have their scores on the American College Test (ACT) or Scholastic Assessment Test (SAT) sent to the University. Undergraduate applications are also available in many high schools and can be requested by writing or calling the Office of Undergraduate Admissions at (504) 388-1175.

All applicants are encouraged to apply well before the priority dates and should send transcripts of all college work attempted, if any, as soon as possible. Students should ask their high schools to send transcripts of all work to date to LSU at the time application is made. Complete transcripts will be required after high school graduation.

A nonrefundable application fee of $25 must accompany the application for admission or re-entry. This fee should be paid by a check drawn on a U.S. bank (or U.S. money order) and show the name of the student for whom payment is made. 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 the 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 the main scholar-

ship programs for freshmen. Arrangements for admission, housing, and need-based financial aid are made separately through the Office of Undergraduate Admissions, the Office of Residential Life, and the Office of Student Aid & Scholarships, respectively. Filling out the application for admission does not entitle an applicant to University housing or financial aid; nor is the filling 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/University Services" and "Financial Aid and Scholarships" in this catalog.

Application priority dates are:
• June 1 for fall semester
• December 1 for the spring semester (November 1 for persons who are not U.S. citizens or immigrants)
• May 1 for the summer term

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, mumps, rubella, tetanus, and diphtheria prior to enrollment at the University. The required proof should be submitted to LSU, Office of Undergraduate Admissions, 110 Thomas Boyd Hall, Baton Rouge, LA 70803, or phone (504) 388-1175.

RESIDENCE STATUS

Eligibility for classification as a resident of Louisiana is determined by the Office of Undergraduate Admissions 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 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 resident classification is sought.

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

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

Special provisions also have been made for adults moving to Louisiana for employment purposes, military personnel stationed in Louisiana, residents of adjacent states, and international students with immigrant visas. The complete statement of residence regulations of the LSU System may be obtained from the Office of Undergraduate Admissions. Resident classifications and all fees are audited and adjusted, if necessary, after each registration. Appropriate refunds are made for changes in status. Questions may be directed to Undergraduate Admissions.

EDUCATIONAL REQUIREMENTS AND ADMISSION POLICY

All students who wish to be considered for undergraduate admission to LSU are encouraged to apply.

Freshmen

LSU’s admission requirements are designed to ensure that students who show promise of academic success are admitted to the University. The most important indicator of this potential is the grade-point average earned in a college preparatory curriculum. Applicants are expected to have pursued a rigorous curriculum including a strong background in English, mathematics, the natural sciences, social studies, foreign languages, and computer studies. LSU also values electives in the visual and performing arts.

U.S. students who have graduated from approved high schools fulfill the academic requirements for admission if they meet any one of these standards:

• an academic grade-point average/ACT or SAT score combination as shown in Table II below on at least 16 of the units listed in Table I; or

• an academic high school grade-point average of at least 2.30 on all 17 1/2 high school unit requirements listed in Table I; or

• an academic high school grade-point average of at least 3.50 in a rigorous college preparatory curriculum and an ACT score of at least 28 (SAT of at least 1170). Experience has shown that most entering freshmen who meet these standards can be expected to perform satisfactorily in their freshman year at LSU.

At LSU, the academic grade-point average is calculated on the basis of the academic units shown in the seven categories in Table I, using the standard 4.00 maximum scale ("A" = 4; "B" = 3; "C" = 2; "D" = 1; "F" = 0). The records of all other applicants will be reviewed on an individual basis. The Undergraduate Admissions Committee considers grade-point average, standardized test scores, class rank, pattern and quality of courses, curriculum, grade trends, educational objectives, extracurricular activities, leadership abilities, and school recommendations. Students may be admitted on the basis of special talents, significant life and career experience, or membership in groups underrepresented in the student body.

TABLE I. HIGH SCHOOL UNITS REQUIRED FOR ADMISSION

| Category 1 | ENGLISH COMPOSITION AND LITERATURE (four units) — English I, II, III, and IV |
| Category 2 | COLLEGE PREPARATORY MATHEMATICS (three units) — Algebra I, Algebra II, and one additional unit consisting of courses such as Geometry, Trigonometry, Advanced Mathematics, or Calculus |
| Category 3 | NATURAL SCIENCES (three units) — Biology, Chemistry, and Physics |
| Category 4 | SOCIAL STUDIES (three units) — One unit in American History; one unit in World History, World Geography, or History of Western Civilization; and one unit consisting of courses such as Civics, Free Enterprise, Economics, Sociology, Psychology, and American Government |
| Category 5 | FOREIGN LANGUAGES (two units) — Two units in a single language |
| Category 6 | COMPUTER STUDIES (one-half unit) — Computer Science, Computer Literacy, or Data Processing |
| Category 7 | ADDITIONAL COURSES (two units) — Two additional units from categories 1 through 6 above and/or certain courses in the visual and performing arts (Fine Arts Survey, Art III, Art IV, Advanced Band, Applied Music, Advanced Chorus, Jazz Ensemble, Music Theory I, Advanced Orchestra, Wind Ensemble, and Studio Piano III) |

LSU will also accept, as one unit toward the Category 7 requirement, any two units of performance courses in music, dance, or theatre not listed above; or two such units of studio art courses.

TABLE II. HIGH SCHOOL ACADEMIC GPA/ACT/SAT SCORES

<table>
<thead>
<tr>
<th>HSGPA</th>
<th>MINIMUM ACT</th>
<th>MINIMUM SAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.9-4.00</td>
<td>19</td>
<td>700</td>
</tr>
<tr>
<td>2.6-2.89</td>
<td>20</td>
<td>830</td>
</tr>
<tr>
<td>2.3-2.59</td>
<td>21</td>
<td>880</td>
</tr>
</tbody>
</table>

For example, a student with 16 of the 17½ units, an academic high school gpa of 2.85, and an ACT score of 20 (or SAT of 830) would be admissible.

Students who lack two or more of the units will be considered for admission based on the number and nature of the deficiencies, high school grades, ACT or SAT scores, or special talents.

Graduates of unapproved high schools must meet the unit requirements and submit satisfactory grades and an ACT composite score of 21 or higher; an SAT combined score of 880 or higher.GED graduates will also be subject to the requirements as outlined above.

A Louisiana resident who is at least 21 years old may apply for admission. The applicant’s entire background — education, training, and experience — will be considered.

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

LSU ACCESS

LSU ACCESS is an academic program developed to admit and assist students who do not meet regular freshman admission requirements. The program provides greater structure and monitoring to help ensure students’ success. Students will be selected from the regular applicant pool, but admission to the program is limited. Contact the Office of Undergraduate Admissions for specific details.

Early and Concurrent 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 3 units of English; an overall academic average of 3.00 ("B"); and an ACT composite score of 28. From the students who meet these requirements, a limited number are selected. 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 instituted a Concurrent High School University 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 grade-point average of 3.00 ("A" = 4.0), an ACT composite of 27 or SAT (math plus verbal) of 1130, and be recommended by the high school principal or counselor for enrollment in a specific course or courses.

Students applying for concurrent study must have completed the most advanced courses offered by their school and fulfill the academic requirements in which they wish to enroll, or must be considered qualified for the college course by the principal or counselor. Continued concurrent enrollment requires reapproval each semester.

Concurrent enrollment students are eligible for honors activities and are encouraged to visit the Honors College office, The Honors College staff will be available for advice or information, whether or not the student intends to pursue honors activities.
### FRESHMAN ADMISSION STANDARDS • FALL 1995

<table>
<thead>
<tr>
<th>High School Academic GPA</th>
<th>High School Course Work</th>
<th>Admission Test Score</th>
<th>Admission Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.50-4.00</td>
<td>Rigorous college preparatory curriculum[^2] in an accredited or state-approved high school</td>
<td>ACT: 28 or above[^3] SAT: 1170 or above</td>
<td>Regular admission</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eligibility to apply for Honors College</td>
</tr>
<tr>
<td>2.30-4.00</td>
<td>17.5 specified high school units required</td>
<td>ACT/SAT: any score</td>
<td>Regular admission</td>
</tr>
<tr>
<td>2.90-4.00</td>
<td>16 of 17.5 specified high school units required</td>
<td>ACT: 19 or above SAT: 790 or above</td>
<td>Regular admission</td>
</tr>
<tr>
<td></td>
<td>Less than 16 of the 17.5 specified high school units required</td>
<td>ACT: 19 or above SAT: 790 or above</td>
<td>Deferred decision[^4]</td>
</tr>
<tr>
<td></td>
<td>16 of the 17.5 specified high school units required</td>
<td>ACT: below 19 SAT: below 790</td>
<td>Deferred decision</td>
</tr>
<tr>
<td></td>
<td>16 of the 17.5 specified high school units required</td>
<td>ACT: 20 or above SAT: 830 or above</td>
<td>Regular admission</td>
</tr>
<tr>
<td>2.60-2.89</td>
<td>Less than 16 of the 17.5 specified high school units required</td>
<td>ACT: 20 or above SAT: 830 or above</td>
<td>Deferred admission</td>
</tr>
<tr>
<td></td>
<td>16 of the 17.5 specified high school units required</td>
<td>ACT: below 20 SAT: below 830</td>
<td>Deferred admission</td>
</tr>
<tr>
<td></td>
<td>16 of the 17.5 specified high school units required</td>
<td>ACT: 21 or above SAT: 880 or above</td>
<td>Regular admission</td>
</tr>
<tr>
<td>2.30-2.59</td>
<td>Less than 16 of the 17.5 specified high school units required</td>
<td>ACT: 21 or above SAT: 880 or above</td>
<td>Deferred decision</td>
</tr>
<tr>
<td></td>
<td>16 of the 17.5 specified high school units required</td>
<td>ACT: below 21 SAT: below 880</td>
<td>Deferred decision</td>
</tr>
<tr>
<td>Below 2.30[^5][^6]</td>
<td></td>
<td></td>
<td>Louisiana residents will be reviewed for LSU ACCESS • Out-of-state residents will be reviewed by the Undergraduate Admissions Committee</td>
</tr>
</tbody>
</table>

[^1] Grade-point average is calculated on the basis of the academic units listed in Table I, using the standard 4.00 minimum scale ("A" = 4; "B" = 3; "C" = 2; "D" = 1; "F" = 0).

[^2] Specified high school units are listed in Table I. Applicants from unapproved or unaccredited high schools will not be admitted without a minimum composite score on the ACT of 21 or higher or a combined score on the SAT of 880 or higher.

[^3] Applicants may submit an official score for the ACT or the SAT.

[^4] Deferred Decision—Records of all other applicants will be reviewed on an individual basis. The Undergraduate Admissions Committee considers GPA, standardized test scores, class rank, pattern and quality of courses, curriculum, grade trends, educational objectives, extracurricular activities, leadership abilities, and school recommendations. Students may be admitted on the basis of special talents, significant life and career experience, or membership in groups underrepresented in the student body. Final senior grades may be requested before an admission decision is made.

[^5] Applicants may appeal admission decisions to the Office of Academic Affairs and Provost. Such appeals will be considered after the application has been reviewed by the Office of Undergraduate Admissions and the Undergraduate Admissions Committee. An appeal must include supporting documentation of a student's special talents and/or extenuating circumstances.

[^6] Student athletes who are awarded athletic grants-in-aid may be admitted if they meet the standards found in Bylaw 14.3.1 of the National Collegiate Athletic Association. Student athletes at LSU will be subject to a number of special academic requirements specified in the rules of the Southeastern Conference and the NCAA.
Advanced-Placement Program

See the end of this chapter for information about advanced placement for entering freshmen.

Freshman Orientation and Registration

Freshman applicants who intend to enroll in the fall must apply by June 1, have ACT or SAT scores on file, and participate in the freshman orientation and registration program. This program includes testing for placement and advanced standing, and the opportunity to meet with a counselor for advice on the selection of courses for the fall semester. Announcements giving dates and complete information regarding this program are sent to applicants and to high schools.

Transfer Students

Students with previous college or university work from regionally accredited institutions may be considered for admission if they have an overall 2.0 grade-point average or better on all college work attempted. LUSU computes the average on all courses taken, including repeated courses, courses with incomplete grades, and those with any grade other than "W." Each computed grade becomes an "A," equaling 4 quality points; "B" = 3; "C" = 2; "D" = 1; and "F" = 0. The symbols + and - are disregarded.

This policy is followed regardless of the practices of the sending institution, including other LSU System campuses. A transfer applicant who has attempted 60 or more semester hours of college-level work (above remedial) must meet the requirements for freshman admission (see "Freshmen" in this section).

The minimum requirement of 2.00 does not guarantee admission to the University or to a specific course of study. Students who have attempted 60 or more semester hours must meet the requirements for admission to one of the colleges.

A prospective transfer student should submit an application and a complete official transcript(s) from each college or university attended. Each college or university attended must be listed on the application form, and official transcripts must be sent from each institution, regardless of whether credit was earned or transferable.

Students who fail to acknowledge attendance at any college or university in which they have been registered are subject to having their admission cancelled or, if enrolled, to being dismissed from this University.

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 given when it is impossible to obtain these records prior to scheduled registration dates. This admission will be cancelled if the required records are not received by the Office of Undergraduate Admissions within 30 days from the first day of classes if it is determined, upon receipt of records, that the applicant does not qualify for admission.

Re-entering Students

A re-entering student who has not enrolled in the regular program for two or more regular semesters must apply for readmission. If a student has attempted 12 or more semester hours at other accredited colleges or universities since last attending LSU, a grade-point average of at least 2.00 on all college work attempted is required.

LSU students applying for readmission (1) must submit an application and complete official transcript(s) from each college or university attended since leaving LSU, regardless of whether credit was earned or transferable, (2) must meet college scholastic requirements for re-entry, and (3) may be placed on probation upon re-entry, (4) are not guaranteed admission. A re-entering student who has attempted 60 or more semester hours may be admitted to the University only if he or she meets the requirements for admission to one of the colleges.

Acceptance of Credit from Other Collegiate Institutions

The evaluation of credit from other institutions is made in the Office of Undergraduate Admissions after the student's complete application and all official transcripts from each college and university attended are received. In general, credit earned in colleges and universities accredited by regional accrediting associations is given full value. Transfer credit will be allowed for a maximum of 21 semester hours scheduled in any one semester. Only work which 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. Students who have earned one-half of the credit required for a degree may not utilize in fulfillment of degree requirements additional credit from a two-year college (except in the LSU System) unless specifically authorized by the dean of the college in which enrollment is sought. A maximum of one-fourth of the credit required for the degree may be earned through regionally accredited university correspondence and extension study.

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

Credit allowed by the Office of Undergraduate Admissions for transfer is, in all cases, subject to review by the student's college with regard to its applicability toward a particular degree, and the student is expected to conform to all requirements of the chosen degree program. Questions relating to the evaluation of credit should be referred to the Office of Undergraduate Admissions.

Questions relating to the acceptance of credit toward a degree assigned in the length of time required for completion of degree requirements should be referred to the appropriate college or school.

International Applicants

International students with superior scholastic records and English proficiency, as demonstrated by acceptable scores on recognized tests, are considered for admission as freshmen or transfer students. Freshman applicants must have graduated from recognized secondary schools comparable in level to U.S. high schools. Applicants must complete the equivalent of 17½ required high school units (see "Freshmen"). Transfer students who have earned less than 24 semester hours of college-level work (above remedial) must meet both freshman and transfer requirements.

Factors considered in making the admission decision are grades earned, subjects taken, and ability to carry a full course of study; scores on college entrance examinations such as the American College Test, the Scholastic Aptitude Test of the College Board, or the Prueba de Aptitud Academica; appropriateness of proposed field of study in relation to the applicant's general ability; and letters of recommendation.

An applicant whose native language is not English is required to submit a score of 500 or better on the Test of English as a Foreign Language (TOEFL). This is a test designed to evaluate proficiency in English and is administered at testing centers overseas and throughout the U.S. Information regarding this test may be obtained by writing to TOEFL, Educational Testing Service, Princeton, New Jersey 08541.

All students not previously enrolled at LSU will be required to take an English placement test prior to registration and to schedule, beginng in the first semester of enrollment, required courses in English as determined by this test.

The applicant for admission decision prior to registration, the following materials must be in the Office of Undergraduate Admissions at least 90 days before the beginning of the semester in which admission is desired:

- application for admission;
- a nonrefundable application fee of $25—check or money order (a U.S. money order or a check drawn on a United States bank);
- complete, official scholastic records;
- scores on entrance examinations (if required); and
- scores on the Test of English as a Foreign Language.

When sufficient scholastic records and acceptable evidence of English proficiency are not received early enough to determine admissibility for the semester for which application was made, consideration will be delayed until the following semester.

Applicants are required to offer proof of the availability of sufficient funds to meet all costs while studying at the University.
OTHER ENROLLMENT OPPORTUNITIES

LSU Senior College Program at Alexandria

LSU, through its Senior College at Alexandria, provides central Louisiana residents the opportunity to earn a baccalaureate degree by taking all classes on the Alexandria campus. Degree programs offered in the Senior College are: Bachelor of General Studies, Bachelor of Science in General Business Administration; and Bachelor of Science in Elementary Grades Education. Interested students should contact their respective senior colleges for additional information.

Evening School

The LSU Evening School consists of four units: Evening School, Intersession, Off-Campus Programs, and the PASS Program. Evening School offers students opportunities to obtain college degrees by attending courses at night and on the weekends. Students may work toward undergraduate degrees in computer science, English, general business administration, general studies, history, mathematics, political science, psychology (B.A. or B.S.), sociology, or vocational education or the Master of Arts in Humanities degree. Courses may be taken for degree credit or audited. These courses are offered on the LSU campus and at various sites in East Baton Rouge Parish.

Intersession offers a variety of courses during an intensive three-week period between the spring and summer semesters and summer and fall semesters. Courses taught during Intersession are open to PASS students and to regularly admitted students in good standing. With special permission, students not in residence at LSU may also take courses during Intersession. Off-Campus Programs are offered throughout the state. A Master of Library and Information Science degree is offered at various locations throughout the state, a master’s degree in petroleum engineering is offered at the Louisiana State University Center for Energy Studies, and a doctorate in education is offered in Shreveport.

There are also courses offered through cable television, by satellite, and through the Telelearning Network, which allows one instructor to communicate with students at remote locations throughout the state via telephone lines that provide verbal and visual contact.

In addition to the above, there is a program sponsored by the U.S. Army Corps of Engineers at the Waterways Experiment Station, located in Vicksburg, Mississippi. This represents a consortium of LSU, Texas A&M, and Mississippi State University, each of whom provides graduate courses in various scientific and technical fields.

Finally, there are other special programs of study that are offered through the school, including the Engineering Management Certificate Program (Baton Rouge, New Orleans, and Alexandria) and the CPA Preparation Program (Baton Rouge only).

For additional information, contact LSU Evening School, 388 Pleasant Hall, LSU, Baton Rouge, LA 70803 or call (504) 388-5213.

The Program for Adult-Special Students (PASS) allows those who have not been enrolled in high school or college during the past calendar year, and who do not plan to work toward a degree, to schedule courses for credit without fulfilling the usual scholastic credentials needed to determine admittance to the University.

A PASS student may schedule as many as nine semester hours in a semester and may earn as many as 24 semester hours of credit in this status. Students who decide to work toward a degree or to continue their enrollment after completion of 24 semester hours in the PASS program must apply for regular admission or an extension of PASS enrollment. Students applying for regular admission to the University must submit complete, official, scholastic records from all institutions attended. Credit and grades earned in this program are used in determining eligibility for admission as a regular student and are included in the student’s official record. Students in this program over 65 years of age receive a waiver of the University fee.

PASS is not designed for international students or students who apply for veteran’s benefits or financial aid. These students must be enrolled in degree programs. The Evening School provides counseling for all students in the PASS Program.

Auditors

An enrolled student may be admitted to class as an auditor by obtaining written consent from the instructor of the course and the dean of the college offering the course. Other individuals who wish to audit only may obtain special enrollment forms from the Office of Student Records & Registration. Auditors will not receive credit for courses audited, although courses previously audited may later be taken for credit. Students will not be permitted to take advanced-standing or proficiency examinations on audited course work. See the section, “Undergraduate Fees and Expenses,” for a listing of fees for auditing courses.

Change in registration from audit to credit or credit to audit requires permission from the instructor of the course and the student’s dean. Approval for change from audit to credit must be obtained no later than the final date for adding courses for credit as shown in the “Academic Calendar.” A request for a change from credit to audit must be submitted no later than the final date for dropping courses without receiving a grade of “W.”

Correspondence (Independent) Study

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

Credit earned in correspondence courses may be submitted for evaluation toward an undergraduate degree at LSU or may be transferred to another institution. Students not enrolled at LSU who plan to apply correspondence credit toward an LSU degree should submit an official “Application for Admission” form (available from the Office of Undergraduate Admissions). 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, indicated on an official permission card filed with the Office of Independent Study. Students who have been dropped from the University for scholastic, disciplinary, or attendance reasons may be admitted to correspondence study courses on a non-credit basis only.

Correspondence course grades will be posted to the transcript when the course is completed. If a registered student takes the final examination by the last day of the examination period of a semester/summer term, the grade will be used to determine the 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 the academic action the next regular semester or summer term for which the student is registered. The grade 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 the Division of 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 college deans.

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 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 and Professional Programs,” in this catalog.

Under the “Superior Undergraduate Student Program,” advanced undergraduates who have earned a minimum gpa of 3.50 may enroll for undergraduate credit in 4000- or 7000-level courses with consent of the instructor and permission of the dean of the student’s undergraduate college. Refer to the “Course Numbering System” section in the chapter, “Courses of Instruction,” in this catalog for additional requirements.
Registration of LSU Nonacademic Employees

With approval of the Offices of Undergraduate Admissions and Graduate Admissions, and the appropriate department chair and academic dean, a full-time nonacademic employee may enroll in classes involving not more than three hours of absence from work during the week. Such educational leave will not involve a reduction in pay, charge to annual or compensatory leave, or loss of full-time status.

It is expected that such educational leave will be granted only for enrollment in courses pertinent to the work of the employee. An employee registering for one or more courses which will require absence from work for more than three hours during the week must charge the additional time to compensatory or annual leave, where available, or to leave without pay. Under certain conditions, an employee may register for up to six credit hours per regular semester and receive a full fee exemption. See Policy Statement 12 for additional information. Educational leave is not granted to part-time nonacademic employees.

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 may register as visiting students for one semester or summer term only. These students must submit a statement from the registrar of that school. 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.

Interinstitutional Cooperative Program: LSU/Southern University

LSU students may enroll in courses at Southern University through a cross-registration program. Before enrolling, a student must obtain prior written approval from the dean of his or her college. See the "LSU/Southern University Cooperative Programs" section of this catalog for details.

Academic Common Market

Louisiana participates with 12 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 (1) be accepted for admission into a program to which their state has made arrangements to send its students, and (2) obtain certification of residency from the Common Market Coordinator in their home state. Applications for admission to the program 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 Student Records & Registration.

Academic Bankruptcy

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

Other Considerations

Applicants who meet the educational requirements listed in this catalog will be considered for admission. Admission is not automatically granted when these requirements are met; it may be denied if other factors, in the judgement 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 Office of Academic Affairs and Provost. Such appeals will be heard only after the application has been reviewed by the Office of Undergraduate Admissions and the Undergraduate Admissions Committee.

Advanced-Standing 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 free of charge to participants in the Spring Testing, 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.

ACT—The American College Test • ACT scores are used in granting advanced-standing credit in freshman English and mathematics placement.

AP—The Advanced-Placement Program of the College Board • 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 below.

About one-fourth of American secondary schools currently participate in the Advanced-Placement Program of the College Board. Each May, these examinations are administered (by the College Board) to students who have participated in the program. The following table shows credit awarded by LSU and the score requirements: (Note: the specific history course will be decided after the department interviews the student.) Departmental recommendations may be subject to change. Contact the Office of Undergraduate Admissions 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, Louisiana State University, Baton Rouge, LA 70803-2802.

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 below.
# LSU ADVANCED-PLACEMENT PROGRAM FOR ENTERING FRESHMEN

<table>
<thead>
<tr>
<th>Examination</th>
<th>Minimum Score</th>
<th>Courses</th>
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<td>ART 1440 or 1441</td>
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<td>CHEM 1421, 1422</td>
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The Board of Supervisors may change fees and costs for dining plans and housing at any time and without providing advance notice to students. Please check with the Office of Student Records & Registration, 112 Thomas Boyd Hall, (504) 388-1886, for up-to-date fee information.

FEES AND EXPENSES

Student expenses, other than campus room, dining plans, and University and non-resident fees, will vary with the individual. A Baton Rouge area student living with parents or a student living on campus spends about $1,900 in addition to fees, room, and dining plan per school year. A student living off campus can expect to spend at least $5,800 per academic year for rent, food, clothing, laundry, cleaning, books and school supplies, transportation, entertainment, and incidentals. Married students spend approximately $13,000 per academic year.

Total first-year expenses for sororities, including some one-time fees, average $1,400; subsequent yearly costs are approximately $850. Monthly dues average $35. Costs for fraternities average $1,250 for the first year, which includes some one-time fees. Subsequent years average $900, not including room and dining plan. Monthly dues for fraternities average $75.

The following is an approximation of what a student may expect to spend each semester for fees, room, and dining plan.

FULL-TIME FEES/SEMESTER

Louisiana residents • $1,324
Nonresidents • $2,974

ROOM RENT

- Residence halls—$620 to $1,060 per semester
- University apartments—$280 to $330 per month
- Fraternity houses—$750 (average) per semester
- Sorority houses—$1,500 (average), including dining plans, per semester

For more information about room rent, contact the Department of Residential Life, Assignment Office, 98 Louise Garig Hall.

DINING PLANS

Residence Hall Students

Dining plan rates are subject to change at the beginning of a semester or summer term.

- 15-meal dining plan (Monday-Friday)—approximately $775 per semester
- 10-meal dining plan (Monday-Friday, two meals per day)—approximately $650 per semester
- Academic-year contract (with 10-meal dining plan)—approximately $625 per semester
- Declining balance dining plan—$380 minimum deposit
- Summer term 15-meal dining plan—approximately $425
- Summer term 10-meal dining plan—approximately $340

Dining contracts are available to off-campus students at a slightly higher rate. For more information about dining plans, see the “Student • University Services” section of this catalog or contact Residence Food Services, P.O. Box 16270-A, Baton Rouge, Louisiana 70893, telephone (504) 388-6642.

Meals may also be purchased off campus for an average cost of $6 per meal.

APPLICATION FEE

A nonrefundable application fee of $25 (check or money order) must accompany the application for admission. In addition to this fee, a nonrefundable late application fee of $25 is charged students who file applications after December 1 for the spring semester, after May 1 for the summer term, and after July 1 for the fall semester. The University is not responsible for cash sent by mail.

GRADUATION FEES

- Bachelor’s degree fee, $30.
- Duplicate diploma fee, $20 (charged if a diploma is ordered and student does not graduate at that commencement).
- Replacement diploma fee, $30.

SPECIAL FEES

Student Health Center Fee

All full-time students are required to pay a $50 Student Health Center fee each fall and spring registration, and a $30 fee for summer. This fee, which is included in the University fee, entitles the student to use of the Student Health Center. No charge is made to visit a primary care physician, but minimum charges are assessed for specialty clinics and treatments, pharmaceuticals, x-rays, and laboratory work. Students who use the mental health services are allowed three free visits and thereafter are charged according to a sliding fee scale.

Part-time students and non-student spouses who want to use the center have the option of paying this fee, which entitles them to the same services as full-time students for the entire semester or paying a per visit charge of $25, which includes the follow-up visit. This fee may be paid either at registration or later at the Student Health Center.

Audit Fees

Fees for auditing courses are in accordance with “Regular Semester” and “Summer Term” fees. Maximum fee is $1,209 for the regular semester and $1,051 for the summer term. Fees for students enrolling for combined credit and audit work will be assessed in accordance with total hours scheduled.
### REGULAR SEMESTER FEES • UNDERGRADUATE STUDENTS

<table>
<thead>
<tr>
<th></th>
<th>Full-Time</th>
<th>Part-Time</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>12 or more hrs.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resident Students</td>
<td>$1,324.00</td>
<td>$960.00</td>
</tr>
<tr>
<td>Nonresident Students</td>
<td>1,324.00</td>
<td>860.00</td>
</tr>
<tr>
<td>Total</td>
<td>$2,974.00</td>
<td>$2,215.00</td>
</tr>
<tr>
<td><strong>10-11 hrs.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resident Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nonresident Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>7-9 hrs.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resident Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nonresident Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>4-6 hrs.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resident Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nonresident Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>1-3 hrs.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resident Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nonresident Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SUMMER SESSION FEES • UNDERGRADUATE STUDENTS

<table>
<thead>
<tr>
<th></th>
<th>Full-Time</th>
<th>Part-Time</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>12 or more hrs.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resident Students</td>
<td>$1,103.00</td>
<td>$849.00</td>
</tr>
<tr>
<td>Nonresident Students</td>
<td>1,103.00</td>
<td>849.00</td>
</tr>
<tr>
<td>Total</td>
<td>$1,928.00</td>
<td>$1,674.00</td>
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<tr>
<td><strong>9-11 hrs.</strong></td>
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<td></td>
</tr>
<tr>
<td>Resident Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nonresident Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>6-8 hrs.</strong></td>
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<td></td>
</tr>
<tr>
<td>Resident Students</td>
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<td></td>
</tr>
<tr>
<td>Nonresident Students</td>
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<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>4-5 hrs.</strong></td>
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<tr>
<td>Resident Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nonresident Students</td>
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<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>1-3 hrs.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resident Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nonresident Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Industrial Cooperative Education Program

Students enrolled in the alternating Industrial Co-op Program pay the University fee according to the following schedule during the semesters they are working full time.

<table>
<thead>
<tr>
<th>SEMESTER/Term</th>
<th>CO-OP Only</th>
<th>CO-OP &amp; 3 Hr. Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>$138</td>
<td>$363</td>
</tr>
<tr>
<td>Spring</td>
<td>146</td>
<td>371</td>
</tr>
<tr>
<td>Summer</td>
<td>92</td>
<td>292</td>
</tr>
</tbody>
</table>

### Three-Week Summer Short Courses

Students enrolled in three-week summer short courses must pay the registration fee (nonrefundable), University fee, and nonresident fee (if applicable). With a few exceptions, these fees conform to the summer term fee schedule.

### Undergraduate Geology Field Fees

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Resident Students</td>
<td>$537</td>
</tr>
<tr>
<td>Camp Fee</td>
<td>150</td>
</tr>
<tr>
<td>Total</td>
<td>$687</td>
</tr>
</tbody>
</table>

### Other Fees

- Students registering for degree only pay no registration fee. (Such students must register through the Office of Student Records & Registration 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 Measurement & Evaluation Center. These examinations are given free of charge to beginning freshmen who are participants in the Spring Testing, 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.
- Each LSU African-American student will be charged $5 per semester to support the African-American Cultural Center.

### 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 the vehicle with the Office of Parking, Traffic, & Transportation. A registration fee will be charged for each vehicle registered. The exact amount of this fee will be published each year in the Traffic & Parking Regulations issued by the Office of Parking, Traffic, & Transportation.

### UNIVERSITY FEES

Included in University fees for full-time students are a subscription to The Daily Reveille, the Gumbo (student yearbook), Legacy Magazine, an allocation to Student Government, admission to various athletic events in the spring semester, membership in the LSU.
Undergraduate Fees • Expenses

Union, and reduced greens fees at the LSU Golf Course. Student allocations also included in the University fee are a mass transit fee, a student recreational sports complex fee, "The Phone" fee, a KLSU radio fee, an LSU-TV fee, and a campus transit fee. University fees also include an nonrefundable $10 registration fee and a Student Health Center fee.

In addition, undergraduates are assessed an organization relief fund fee in the spring semester only. Fractional hours are rounded down for fee assessment purposes.

### UNIVERSITY FEES—FULL-TIME STUDENTS

<table>
<thead>
<tr>
<th>STUDENT RECOMMENDED FEES</th>
<th>FALL</th>
<th>SPRING</th>
<th>SUMMER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student Recreational Sports Complex</td>
<td>$30.00</td>
<td>$30.00</td>
<td>$15.00</td>
</tr>
<tr>
<td>&quot;The Phone&quot;</td>
<td>2.00</td>
<td>2.00</td>
<td>1.00</td>
</tr>
<tr>
<td>KLSU Radio</td>
<td>5.00</td>
<td>5.00</td>
<td>3.00</td>
</tr>
<tr>
<td>Mass Transit System</td>
<td>23.00</td>
<td>23.00</td>
<td>10.00</td>
</tr>
<tr>
<td>Organization Relief Fund</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Full-Time Students</td>
<td>0.00</td>
<td>3.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Full-Time Graduate and Veterinary Medicine Students</td>
<td>3.00</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>LSU-TV</td>
<td>2.00</td>
<td>2.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Campus Transit</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Gumbo (yearbook)</td>
<td>7.00</td>
<td>1.00</td>
<td>0.00</td>
</tr>
<tr>
<td>The Daily Reveille (student newspaper)</td>
<td>2.00</td>
<td>2.00</td>
<td>1.00</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td>$75.00</td>
<td>$69.00</td>
<td>$32.00</td>
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</table>

<table>
<thead>
<tr>
<th>STUDENT HEALTH CENTER</th>
<th>FALL</th>
<th>SPRING</th>
<th>SUMMER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$50.00</td>
<td>$50.00</td>
<td>$30.00</td>
</tr>
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</table>

### OTHER ALLOCATED FEES

<table>
<thead>
<tr>
<th></th>
<th>FALL</th>
<th>SPRING</th>
<th>SUMMER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student Government</td>
<td>$2.00</td>
<td>2.00</td>
<td>$0.75</td>
</tr>
<tr>
<td>Auxiliary Enterprise Maintenance Fund</td>
<td>3.75</td>
<td>3.75</td>
<td>1.85</td>
</tr>
<tr>
<td>Student Services Maintenance Fund</td>
<td>3.75</td>
<td>3.75</td>
<td>1.90</td>
</tr>
<tr>
<td>The Daily Reveille</td>
<td>2.00</td>
<td>2.00</td>
<td>0.75</td>
</tr>
<tr>
<td>Student Media</td>
<td>0.25</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Gumbo (yearbook)</td>
<td>0.00</td>
<td>5.00</td>
<td>0.00</td>
</tr>
<tr>
<td>LSU Union</td>
<td>12.25</td>
<td>12.50</td>
<td>5.00</td>
</tr>
<tr>
<td>LSU Union Maintenance Fund</td>
<td>7.50</td>
<td>7.50</td>
<td>3.75</td>
</tr>
<tr>
<td>LSU Union Enrichment Fund</td>
<td>3.00</td>
<td>3.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Spring Sports</td>
<td>0.00</td>
<td>6.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Golf</td>
<td>1.25</td>
<td>1.25</td>
<td>0.75</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td>$35.75</td>
<td>$46.75</td>
<td>$14.75</td>
</tr>
</tbody>
</table>

**TOTAL** $160.75 $165.75 $76.75

<table>
<thead>
<tr>
<th>REGISTRATION FEE (NONREFUNDABLE)</th>
<th>FALL</th>
<th>SPRING</th>
<th>SUMMER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$10.00</td>
<td>$10.00</td>
<td>$10.00</td>
</tr>
</tbody>
</table>

**TOTAL INCLUDED IN “UNIVERSITY FEES”** $170.75 $175.75 $86.75
STUDENT ACCIDENT AND SICKNESS INSURANCE PLAN

A special plan is offered to students 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 non-immigrant international students enroll in the LSU Student Insurance Program at the time of registration or provide evidence of acceptable insurance to the International Student Office.

Students enrolled in the School of Veterinary Medicine are required to have sickness and accident insurance coverage through enrollment in the University-sponsored plan, or to have proof of participation in an equal or better insurance program.

PAYMENT OF FEES

Fee bills are mailed to students’ home addresses prior to the beginning of each semester or summer term. All fees and other University charges are due by the date indicated on the fee bill. Payment should be made by mail using either a cashier’s check, a personal check, or a money order. (The University is not responsible for cash sent through the mail.)

Students in good financial standing with the University may elect to defer payment of one-half of the fees using the LSU Touchtone Information System. Information is also available concerning budget plans designed for parents/students who wish to pay fall and spring fees on a monthly basis (including room and cafeteria fees).

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 PERSONS OVER 65

According to the provisions of Act 525 of the 1975 Louisiana legislature, persons over 65 years of age may enroll in college-level courses without paying the University fee. Further information may be obtained from the Office of Student Records & Registration.

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 $10 per returned check.

REFUND OF FEES

- Refund of the University fee, nonresident fee, and Student Health Center fee will be made on the following basis upon official withdrawal of the student ("Days of classes" are days on which regular classes are held): before classes begin, 100 percent (less the $10 nonrefundable registration fee); during the first six days of classes, 90 percent; from day seven through day 24 of classes (day four through day 12 in summer term), 50 percent; from day 25 of classes (day 13 of summer term) to the end of the semester, none.

The Reauthorization of the Higher Education Act of 1965 requires that Title IV program fund recipients who enroll at an institution of higher education for the first time, and resign, receive a pro rata refund through 60 percent of the semester or term. Specific information regarding this refund schedule is available from the Office of Student Records & Registration.

- 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 refunds 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, and Student Health Center 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 Center fee.

See also "Refund of Room Rent" in the "Student/University Services" section of this catalog.
FINANCIAL AID • SCHOLARSHIPS

KATHLEEN M. SCIACCHETANO
Director

MELANIE AMRHEIN
Assistant Director

JOE HARVEY
Assistant Director

D. SHERWIN HIBBETS
Assistant Director

Office of Student Aid & Scholarships
202 Himes Hall
(504) 388-3103
FAX (504) 388-6300

LSU awards scholarships in the forms of full and partial tuition exemptions, cash stipends, and employment opportunities to students who meet certain academic qualifications. The awards are valid for one year of undergraduate study. Each may be renewed annually as long as the recipient meets the academic requirements. The maximum term of the award is four years or until the recipient receives an undergraduate degree, whichever occurs first.

In addition to the scholarship programs, the LSU Office of Student Aid & Scholarships administers a number of federally funded financial aid programs totaling approximately $46 million annually to students who qualify on the basis of need.

The scholarships and awards listed here are granted chiefly on the basis of standardized test scores (ACT/SAT) and academic credentials. Students from underrepresented populations may be selected based on alternate criteria. Most scholarships are restricted to full-time undergraduate students.

Additional information concerning the programs listed in this section is available in the brochure, “Financial Aid and Scholarships.”

SCHOLARSHIPS AVAILABLE TO ENTERING FRESHMEN

The 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.

Chancellor’s Alumni Scholarships

These scholarships are funded through the LSU Alumni Association and through an endowment made to the University by Gordon D. Cain. Candidates must have either an American College Test (ACT) composite score of at least 33 or a Scholastic Aptitude Test (SAT) score of at least 1580, as well as an overall high school average of “A” in English, mathematics, social studies, and natural sciences. The students selected receive:

- A cash scholarship of up to $9,400 ($2,350 per year) over a four-year period. (The cash award of $2,350 per year is reduced to $1,600 per year for a student who also receives the LSU Merit Scholarship or the LSU Achievement Scholarship with cash values of $750 per semester.)
- Exemption from the payment of all tuition charges.
- An offer to become a Chancellor’s Student Aide working in a campus job suited to the recipient’s abilities and interests.

LSU Merit/Achievement Scholarships

Only National Merit/Achievement Finalists who have indicated LSU as their first choice school are eligible for consideration. National Merit/Achievement Scholars receive:

- A cash scholarship sponsored by the LSU Alumni Association up to $3,000 ($750 per year) over a four-year period; more based on need. Students may not receive cash awards for both the LSU Alumni Association Scholarship and the LSU Merit/Achievement Scholarship, although they will retain both distinctions.
- Exemption from the payment of all tuition charges for a four-year period.
- An offer to become a Chancellor’s Student Aide, working in a campus job suited to the recipient’s abilities and interests.

LSU Alumni Association Scholarships

Excellent standardized test scores and an excellent high school academic record are required. Each of the 100 recipients will receive:

- A cash scholarship from the LSU Alumni Association up to $3,000 ($750 per year) over a four-year period. Students may not receive cash awards for both the LSU Alumni Association Scholarship and the LSU Merit/Achievement Scholarship, although they will retain both distinctions.
- Exemption from all tuition charges.
- An offer to become a Chancellor’s Student Aide, working in a campus job suited to the recipient’s abilities and interests.

LSU Honor Scholarships and Tuition Exemption Scholarships for Nonresidents

To be eligible for consideration, an entering freshman must have a commendable high school academic record, particularly in English and mathematics, and must have strong standardized test scores. Students who are officially designated as National Merit or National Achievement semifinalists, as well as students in special categories, are also eligible for consideration.

These awards are in the form of a full tuition exemption. Recipients may also receive an offer to become a Chancellor’s Student Aide, working in a campus job suited to the recipient’s abilities and interests.

Nonresident Fee Waiver Program

Nonresident students with commendable academic records, as well as students in special categories, will be considered for these scholarships. These awards will be in the form of a waiver of the nonresident fee (approximately $3,300 per year).
LSU Honor Scholarship for Valedictorians

High school students who are residents of Louisiana and who are certified as valedictorians by the high school are eligible for an exemption from the payment of tuition charges.

LSU Honor Award for ROTC Scholars

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

Application Procedure

The LSU "Application for Undergraduate Admission and Scholarships" must be submitted, along with an official high school transcript and standardized test scores, to the Office of Undergraduate Admissions, 110 Thomas Boyd Hall, LSU, Baton Rouge, Louisiana 70803-2802, as soon as possible following the junior year of high school. The deadline for full consideration for LSU's scholarship programs is February 1.

Students should take the ACT or SAT no later than the December testing date of the senior year in high school and indicate LSU as one of their college choices. Registration material should be obtained from a high school counselor at least one month prior to the testing date. Students who become National Merit or National Achievement Finalists should indicate LSU as their first choice school to ensure receiving priority consideration for certain scholarships.

All students who meet admission criteria will be evaluated further to determine eligibility.

Notification of scholarship recipients normally begins in December and continues until early April.

OTHER 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. Both types, however, may be restricted to students of specified classification, place of residence, or some other characteristic consistent with the principles of equal opportunity and/or affirmative action.

Applications for scholarships administered by the Faculty Senate Committee on Student Aid & Scholarships may be obtained from the Office of Student Aid & Scholarships, 202 Himes Hall or 208 Coates Hall. All other applications, when required, may be obtained from the department or college listed in the description of the scholarship.

The description of each scholarship follows the same format: title; number given and amount; eligibility ("LSU S$500") 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
EBR = East Baton Rouge Parish

Scholarships and Awards Restricted to a Particular Field of Study

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

COLLEGE OF AGRICULTURE

Agricultural Economics & Agribusiness Alumni Association Award (varies) in fund & resource econ. or agribus.; awarded by Col. Agr. Econ. & Agribus.

Agriculture Alumni Association Scholarship (2:$300) Outstanding male/female SR; awarded spring sem. by Agr. Alumni Assoc.

College of Agriculture Honor Student Award (1:$10) Incoming SO with highest gpa in college; awarded by Col. Agr.

Agronomy Alumni Scholarship (2:$500) majors in agron.; 30 sem. hrs. completed; American citizen; selection based on scholarship, leadership, and need; preference given to LA resident; awarded by Dept. of Agron.

Professor William H. Alexander Memorial Scholarship (varies/varies) majoring in food & resource econ. or agribus.; minimum 24 ACT and high school gpa of "B" or better; LA resident; awarded by Dept. of Agr. Econ. & Agribus.

Alpha Gamma Rho Outstanding FFA and 4-H Club Awards (2:$100) Entering FR; outstanding member of high school club.

American Society of Safety Engineers Scholarship Award (1:free waiver/sem.) SR in industr. and agr. tech.; selection based on gpa, financial need, and desire to pursue career in safety and health; awarded by Dept. of Biol. & Agr. Engr.

Edith Spring Arnold Scholarship (1:$1,000) GR in human ecology; awarded by Sch. of Human Ecology

ASA—Coca Cola Scholarship (1:$100) UG in Col. of Agr.; awarded by Col. of Agr.

ASA Outstanding Sophomore Award (1:$300) Outstanding SO in Col. of Agr.; awarded by Col. of Agr.

ASC—Coca Cola Scholarship (1:$100) UG in Col. of Agr.; awarded by Col. of Agr.

ASC Outstanding Sophomore Award (1:$300) Outstanding SO in Col. of Agr.; awarded by Col. of Agr.

Erie McKin Barham Memorial Scholarship (1:$1,000) Outstanding FR in FFA; or FFA member; awarded by Col. of Agr.

F. O. Bateman Memorial Scholarship (1:$500) outstanding agriculture student of national merit or national honor society; awarded by Col. of Agr.

John Wesley Bateman, Sr., Fellowship (1:$300) Full-time GR in agr. educ. with highest gpa; preference given to LA residents; awarded by Sch. of Voc. Educ.

Baton Rouge Business and Professional Women's Club Scholarship (1amt.) to be determined Full-time GR/UG; 3.00 or better in G.P.A.; awarded by Sch. of Human Ecology

Baton Rouge Lumber Company Scholarship (2:$750) UG with 2.00 gpa in industr. educ. option leading to training in building materials management; awarded by Sch. of Voc. Educ.

B & B Alumni Association Scholarship (1:$5,000) UG in animal sci.; awarded by Dept. of Animal Sci.

Lee Berwick Livestock Judging Scholarship (5:$1,000) awarded by Animal Sci. Dep.

Biological and Agricultural Engineering Outstanding Senior Award (1:$100) Outstanding SR in biol. & agr. engr.; awarded by Dept. of Biol. & Agr. Engr.

LSU Block and Bridge Sophomore-Scholarship Service Award (1:$500) SO in animal sci.; awarded by Dept. of Animal Sci.

LSU Block and Bridge Club Scholar Award (5:$100) Outstanding and active pledge or club member; awarded by Block and Bridge Club.

Building Materials Unlimited Award (1:$250) UG in option leading to training in building materials management; awarded by Sch. of Voc. Educ.

B. J. Burch Memorial Scholarship (1:$400) UG in dairy sci.; 2.5 gpa; awarded by Dept. of Dairy Sci.

CAMECO Award in Biological and Agricultural Engineering (3:$500) Student in biol. & agr. engr. with 2.25 gpa; awarded by Dept. of Biol. & Agr. Engr.

Charles Stewart Churchill Memorial Scholarship (10:$250) UG in Col. of Agr.; awarded by SA&S Comm. on recommendation of Col. of Agr.

Con-Agra Poultry Scholarship (varies:$1,000) UG majoring in poultry sci.; awarded by Poultry Sci. Dept.

Charles M. Curtis Scholarship (1:$400) Incoming FR; majoring in college teaching; 2.5 gpa; awarded by Sch. of Voc. Educ.

Congressional Teachers' Scholarship (37:5,000/yr. for 4 yrs.) Incoming FR or transfer student majoring in teacher educ.; must pass ACT 21 or above; top 10 percent of LA high school graduating class; college gpa of 3.20; recipient must agree to teach for eight yrs.; awarded by state of LA.

Sue A. Cromwell Scholarship (varies) UG or GR majoring in dairy, animal, or agric.; 2.5 gpa; awarded by Sch. of Human & Animal Sci.

Dairymen, Inc., Scholarships (2:$500) SO/GR majoring in dairy sci., agric., or related dairy field; awarded by Dairymen, Inc.

Dairymen, Inc., Scholarship in Dairy Science (2:$500) UG in dairy sci., agric., econ., or other related dairy field; awarded by Dairymen, Inc.

Dairy Science Scholarship in Dairy Foods (1:$1500) UG in dairy sci. manufact.; 2.50 gpa; awarded by Dept. of Dairy Sci.

LSU Dairy Science Alumni Association Scholarship (1:$200) UG in dairy sci.; 3.00 gpa; awarded by Dept. of Dairy Sci.

M. N. Davidson Foundation Scholarship (1:$750) UG in industr. arts/tech. educ. option leading to training in building materials management; awarded by M. N. Davidson Foundation.

Dean's Honor Scholarship (10:$1,000) Entering FR in Col. of Agr.; cumulative gpa of 3.00 or better upon high school graduation; ACT composite of 22 or better; awarded by Col. of Agr.

The Dixie Jubilee Horse Show, Inc., Scholarship (150,000) SR in Col. of Agr.; academic ability and financial need; must have at least 2.00 gpa; preference given to student majoring in animal sci.; must demonstrate professional or personal equine interest; awarded by Scholarship Com., Col. of Agr.

Sheryl and Joseph Doré Memorial Scholarship in Agriculture (1:$2,000) Beginning SR in food & resource econ., agr. bus., agron., food sci., or biol. & agr. engr.; highest gpa for first three yrs. at LSU; awarded by Col. of Agr.

Sheryl and Joseph Doré Memorial Scholarship in Agriculture (1:$2,000) Outstanding FR in food & resource econ., agr. bus., agron., food sci., or biol. & agr. engr.; recipient will receive $2,000 as a FR and $1,000 as a SO if gpa during FR yr. is at least 3.00; awarded by Col. of Agr.

Downtown Kiwanis Club of Baton Rouge Agriculture Scholarship (1:$1,000) FR; all majors within Col. of Agr.; U.S. citizens and LA residents; preferably Lampasas Parish


Marc Dupuy, Jr., Wildlife Conservation Scholarship (1:$500) LA high school graduate, preferably from Avoyelles Parish, with UG major in wildlife; awarded by Sch. of For., Wild., & Fish.
Robert C. West Field Research Award (varies to $1,500) GR in geog. and anth. conducting field work for thesis or dissertation; awarded by Dept. of Geog. and Anth.

John Hazard Wildman Scholarship Fund (1/varies) UG creative writing major; for excellence in writing; open competition among majors each spring; chosen by writing teachers.

COLLEGE OF BASIC SCIENCES

Amoco Foundation, Inc. (1:$2,000) UG major in geol. or geophy.; academic ability; U.S. citizen; awarded by Dept. of Geol. & Geophysics.

Chevron Scholarship (1:$2,000 or 2:$1,000) UG major in geol. or geophy.; academic ability; U.S. citizen; awarded by Dept. of Geol. & Geophysics.

Chevron Undergraduate Scholarship (4:$500) UG major in computer sci.; U.S. citizen or permanent resident; awarded by Col. of Basic Sci.

* A. R. Choppin Scholarship (5:$1,000) SO/IR in Col. of Basic Sci., awarded by Col. of Basic Sci.

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

Charles E. Coates Undergraduate Honor Award (1:$575), pluses nominations by Comm. director; showcasing academic and professional promise; outstanding scholastic performance; awarded by Dept. of Comm. Sci. & Dis.

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

Kenneth S. Falk Award (1:$250) UG in Greek; based on recognizance by Committee.

K. W. Gilbert, Jr., Memorial Scholarship in Creative Writing (1/varies) For creative writing major; for excellence in writing; chosen by writing teachers.

Andrew G. Gonzales Endowed Scholarship (1:$25 and plaque) Outstanding graduating sr in Latin; awarded by Dept. of For. Lang. & Lit.

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

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

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

* Agatha LaCroix Award (1/varies) Outstanding student in French; awarded by Dept. of French & Italian.

Gladys Means Lloyd (1:fee waiver for two sem.) JR/SR or female Grad. student in academic ability and talent; awarded by theater faculty.

LSU Athletic Department Endowed Scholarship (1:$500) A&S student with financial need; must have 3.00 gpa overall and in LSU System; awarded one year at a time by the Col. of A&S; can be renewed.

* Mu Sigma Rho Outstanding Upperclassman Scholarship (varies) JR/SR in Col. of A&S; 3.50 gpa; awarded by Col. of A&S.

* Arts and Sciences Newsletter Scholarship (1:$500) A&S student with financial need; must have 3.00 overall gpa and in A&S System; awarded by Col. of A&S.

Susie Chansey-O’Quinn Travel Grant Fund for M.F.A. Directors (varies/varies) Meritous studio directors in Theatre M.F.A. program in need of travel funds to conferences off-campus or as apprentices on professional productions; awarded by Dept. of Theatre.

Police Jury Association of Louisiana Scholarship (1:$500) A&S student or graduate of LA high school; awarded by Dept. of Poli. Sci.

Corinne L. Sauzier Romance Language Scholarship (1:$870) Graduating SR in French or Spanish, for advanced study at Univ. or in foreign country; preference to students planning to teach; awarded by Dept. of French & Italian and Dept. of For. Lang. & Lit.

*Claude L. Shaver Scholarship (1:fee waiver) JR/SR/GR in these academic ability and theatre talent; awarded by theatre faculty.

Pennzoil Exploration and Production Company Scholarship (varies) UG in geol.; U.S. citizen; awarded by Dept. of Geol. & Geophysics.

* Laurance S.2. S. Memorial Scholarship: (1/varies) SO in pet. engs. or geol. curriculum; awarded by S&S Com. on recommendation of Dept. of Geol. & Geophysics or Dept. of Pet. Eng.

Star Enterprise Scholarship (1:$1,000) JR or SR in computer sci.; 2.70 gpa; U.S. citizenship or permanent resident status; awarded by Col. of Basic Sci.

Major J. Stewart Slack, Jr., Memorial Scholarship (1:$500) UG in geol. or pet. eng.; LA resident; for required field camp (GEOL 3660); awarded by special committee on recommendation of Dept. of Geol. & Geophysics or Dept. of Pet. Eng.

Adam Sturlese Memorial Scholarship (1/varies) JR or SR major in geol.; nominated by Dept. of Geol. & Geophysics; final award by donor.

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

* W. W. Tison Memorial Scholarship (1:$500) JR major in geol.; planning to major in chem. in Col. of Basic Sci.; awarded by Dept. of Chem.

Union Pacific Foundation (5:$1,000) UGGR major in geol.; academic ability; U.S. citizen; awarded by Dept. of Geol. & Geophysics.

Unocal Oil & Gas Division Scholarship (2:$3,000) UG major in geol.; academic ability; U.S. citizen; awarded by Dept. of Geol. & Geophysics.

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

COLLEGE OF BUSINESS ADMINISTRATION

American Bank & Trust Co. Scholarship in Honor of Mr. & Mrs. Clifford D. (varies) Student enrolled or planning to enroll in Col. of Bus. Adv.; scholarship, financial need, civic or community involvement; resident of EBR or adjacent parishes.

Amoco Foundation Scholarship (varies) Student in Col. of Bus. Adv.

Arthur Andersen & Co. Award (1:$200) Most active member of Beta Alpha Psi; awarded by Dept. of Acc. & Aud.

* Paul and Ellen Allen Scholarship for the College of Business Administration (1:$1,000) JR/SR in risk and insurance curriculum; awarded by Scholarship Committee of Col. of Bus. Adv.

* American Bank & Trust Co. Banking & Finance Scholarship— Baton Rouge Chapter Scholarship (1/varies) SR/IR major in acct.; awarded by Dept. of Acc.

* Lonnie H. Beatty Scholarship (1/varies) SO/IR acct. major; awarded by Dept. of Acc.

Beta Alpha Psi Award (1) Certificate of merit to SR with highest overall GPA; U.S. Savings Bond to top-ranking JR acct. major; awarded by Phi Chapter of Beta Alpha Psi.

Greater Baton Rouge Society for Human Resource Management Scholarship (1:$800) JR/SR major in mgmt. (human resources area); highest gpa in major; apply each semester; awarded by BGBSHRM.

* Capital Bank & Trust Co. Banking & Finance Scholarship in Honor of Mr. H. Hamrick Holloway, Jr. (1:$1,000) JR/SR in fin. or commercial banking; 3.00; LA residence; financial need; awarded by Scholarship Committee of Col. of Bus. Adv.

Capital Bank & Trust/Embree K. Easterly Scholarship (1:$500) JR or SR finance or commercial banking student with financial need; 3.00; LA residence; awarded by scholarship committee and holder of Louisiana Bankers’ Assoc. Chair of Banking.

* Capital Bank & Trust Co. Scholarship in Memory of Albert H. Koby (1:$1,000) JR or SR in fin. with at least 3.00; awarded by Col. of Bus. Adv.

Century 21 Brokers of Louisiana Scholarship (1 or 2/varies) JR or SR with interest in real estate; LA residence; awarded by Col. of Bus. Adv.

* L. A. Champagne Memorial Scholarship (1:$500) SO acct. major; 2.70; renewable for three yrs.; awarded by Col. of Bus. Adv.

* Quinn M. Cocoa Scholarship Fund (1/varies) Student in acct. awarded by Dept. of Acc.
Cooper's Lybrand Award (1:$500) JR showing outstanding leadership potential in academic and extracurricular activities, leadership, and character; awarded by Dept. of Acct.

Mr. & Mrs. R. Irby Didier, Sr. Memorial Scholarship (1 or more varies) Banking student with financial need; residence of LA; SR in Col. of Bus. Adm.; awarded by scholarship committee and holder of Louisiana Bankers’ Assoc. Chair of Banking.

Tommy Doiron and Jimmy Webb Memorial Scholarship (1 or more varies) with 2.50 GPA; financial need; awarded by Col. of Bus. Adm.

Ted F. Dunham Scholarship (2:$1,000) FR from Winn Parish entering College of Business; applicants must have a minimum ACT score of 18.

Dupont Minority Education Grant Awarded to minority student in Col. of Bus. Admin.

David Harper Garland Memorial Scholarship (1 varies) in bus. adm.; academic ability; financial need; awarded by Scholarship Committee of Col. of Bus. Adm.

Louis Gottlieb Fellowship (1:$1,500) Full-time GR working toward master’s in finance or M.B.A. degree; awarded by Chair of Fin. Dept. and holder of Louisiana Bankers’ Assoc. Chair of Banking.

Hawkins, Wootton, and Carroll Scholarship (1:250) SR acct. major who indicates ability to succeed in public acct. in the environment of the local practitioner; awarded by Dept. of Acct.

Paul and Theresa Hendershot Scholarship (1 varies) SR in market; 3.00 GPA; financial need; awarded by Col. of Bus. Adm.

Honors Student Honors Award (1:$300) Highest GPA among honors students in Col. of Bus. Adm.; awarded by Col. of Bus. Adm.

Mack H. Hornback Scholarship (1:$1,000) Outstanding student in Col. of Bus. Adm., preferably majoring in commercial bank, or fin.; financial need; awarded by Scholarship Committee of Col. of Bus. Adm.

IABC-Baton Rouge Business Communications Scholarship (1 varies) in communications field; awarded by LSU Foundation.

Frances R. Ingalls Scholarship (1 varies) JR or SR with interest in real estate; LA resident; awarded by Dept. of Fin.

International Paper Scholarship (2 varies) Awarded to QBA majors in Col. of Bus. Admin.

Russell Lobbell Memorial Scholarship (1 varies) SO with graduating academical qualifications, financial need, and demonstrated qualities of leadership; graduate of Baton Rouge high school; awarded by Col. of Bus. Adm.

LA Consumer Finance Association Award (2:250) JR/RS in admin.; awarded by AASC.

LA Motor Transport Association (Baton Rouge Chapter) Award (1:$440) FR planning to major in bus. adm.; grade point of 3.5 or better; awarded by AASC Comm.

Marathon Oil Foundation Minority Scholarship (1:500) UG in acct., geol., or pet. engr.; awarded by Chancellor.

Mike McNeel Memorial Scholarship (1:$300) Entering FR planning to major in bus. adm.; grade point of 3.5 or better; awarded by AASC.

James M. Owen Memorial Scholarship (varies: $300) UG showing potential of attaining high personal and professional standards of Dr. Owen; awarded by Dept. of Acct.

J. Clifford Osburn Scholarship (varies) Awarded to full-time Col. of Bus. Admin. student who has graduated from any public, private, or parochial high school in EBR parish.

James M. Owen Memorial Scholarship (varies: $300) UG showing promise of attaining high personal and professional standards of Dr. Owen; awarded by Dept. of Acct.

Peat, Marwick, Mitchell & Co. Award (1:$100) Outstanding student in basic auditing course; awarded by Dept. of Acct.

Price Waterhouse & Co. Award (1:500) Outstanding JR acct. major; awarded by Dept. of Acct.

Realtor Salesmanship Organization Scholarship (2:$250) SR in business-related field; EBR resident with minimum 3.00 GPA; awarded by Dept. of Fin.

Society of Louisiana CPA’s (Baton Rouge Chapter) Scholarship (1:300) SR in acct.; awarded by Dept. of Acct.

SOUTHERN Scrap Company Scholarship in Operations Management (1 varies) submit a 250- word (or less) essay on role of operations management in a modern organization and a 100-word (or less) autobiog- raphy. JR or SR (any option); LA resident: 2.50 GPA; awarded by Col. of Bus. Adm. scholarship committee and QBA chair; includes summer and school year paid internship.

Society of Louisiana Certified Public Accountants Medal (1) Presented to top ranking graduating SR in acct.; awarded by Dept. of Acct.

Kitty R. Bess Scholarship (1 varies) JR/SR female; 3.00 GPA; awarded by Scholarship Committee of Col. of Bus. Adm.

E. J. Thomas/ R. Courtney Leadership Scholarship (1:400) SR with financial need; gpa of “B” or better, leadership responsibility in high school and citizenship; from one of the following high schools: Holy Saviour Catholic High School, Alexandria; Robert E. Lee High School, B.R.; Redemptorist High School, B.R.; or Catholic High School, B.R.

Tenneco Gas Scholarship (1:750 per sem.) Awarded to full-time student majoring in QBA; must be U.S. citizen by a cumulative gpa of at least 3.00, and one or two regular sem. remaining in the UG program.

Texaco Marketing and Refining, Inc., Scholarship (2) Awarded to QBA majors in Col. of Bus. Adm.

Travis Varner Memorial Scholarship (1:$500) UG acct., or QBA; established by BR Chapter of Data Processing Mgmt. Assoc.

W. Leroy Ward, Jr. & Sr. Memorial Scholarship (4:500) JR in fin., banking, or related field; financial need: 3.00 GPA; EBR resident; awarded by Col. of Bus. Adm.

Arthur Young & Co. Award (2:$400) JR; outstanding M.S. student with emphasis in taxation; awarded by Dept. of Acct.

COLLEGE OF DESIGN

AIA/AAF Scholarships (varies) Awarded on a competitive basis to 4th or 5th-year students in arch. by the Nat. Am. Inst. of Architects.

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

American Institute of Architects Certificate (1) Graduating student in arch. with 2nd highest gpa; awarded by Nat. Am. Inst. of Architects through Sch. of Arch.

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

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

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

Miriam Garie Barranger Scholarship (1:$1,000 annual); funds become available) UG in ceramics; awarded by Sch. of Art.

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

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

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

Terry Devine Memorial Scholarship (1 varies) 4th- or 5th-year student; awarded by Sch. of Arch.

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

I. Kenneth Edmiston Memorial Scholarship (2:$500) JR, SR, or GR in arch. graphics design, drawing, drafting, etc.; 2.50 GPA; apply each semester; awarded by Sch. of Art.

I. Vincent Guaccero Memorial Scholarship (1 varies) 4th or 5th-year student; applicant must have QBA or architectural design capability; awarded by Dept. of Interior Design.

Harvey Scholarship (2 tuition) 5th-year student in arch. and land. arch.; awarded by Sch. of Arch. and Sch. of Land. Arch. based on academic performance and financial need.

Interstate Companies of Louisiana Award (2 varies) Outstanding UG in interior design; awarded by Dept. of Interior Design.

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

LA Garden Club Federation, Inc., Scholarship (1:5,000) Outstanding student in land. arch.; LA resident; based on scholarship and financial need; awarded by Sch. of Land. Arch.

McKay’s Interior Award (varies: 2 varies) Outstanding student in visual design; awarded by Dept. of Interior Design.


Rout and Associates Scholarship in Graphic Design (1:500) Student in graphic design.; awarded by Sch. of Art.

Dixon Smith Educational Scholarship (1 varies) SR interior des. major; awarded by Dept. of Interior Des.

Scott Gerard Verretti Scholarship (1 varies) JR interior design major; GPA of 3.00 or better; true financial need; awarded by Dept. of Interior Design.

Woods and Water Club Scholarship See College of Agriculture.

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

COLLEGE OF EDUCATION

Jane Atchison Memorial Scholarship (1:$1,000) JR in elementary educ.; 3.00 GPA.

Marietta Boon Endowment Scholarship (1 varies) SR in Col. of Educ.; 3.00 GPA, unmarried; awarded by Col. of Educ.

City Presidents’ Council of Alpha Delta Kappa Sorority Scholarship (1 varies) SO/JR/RS in Col. of Educ. with at least 3.00 GPA; awarded by Col. of Educ. and Alpha Delta Kappa.

Association of Classroom Teachers of East Baton Rouge Parish Endowed Scholarship (1 varies) JR/SR in educ.; graduate of EBR high school; 3.00 GPA; awarded by Col. of Educ.

Shirley Thomas Johnson Memorial Scholarship (1 varies) SO/JR/RS in Col. of Educ. with at least 3.00 GPA; awarded by Col. of Educ.

C. L. Madden Memorial Endowment (1 varies) Full-time student in educ.; financial need.

Dr. Guy C. Mitchell Education Scholarship (1 varies) JR/SR in Col. of Educ.; 3.00 GPA; LA student with true financial need; recipient can receive scholarship for two academic years; awarded by Col. of Educ.

Robert E. and Earleen Dryer Nolan Scholarship in the Col. of Educ. (1:750) SR in Col. of Educ. with at least 3.00 GPA; recipient can only receive once; awarded by Col. of Educ.

COLLEGE OF ENGINEERING

Awards

American Institute of Chemists Scholarship (1 varies) UG in chem. eng. with outstanding leadership ability, character, and scholarship.

Michael A. Claus Memorial Fund Award (1 varies) UG in civil eng.

Chemical Engineering Junior Award (varies: $100) JR in chem. eng. with highest GPA at end of year; awarded by Dept. of Chem. Eng.

Jesse Coates Award (1 varies) UG in chem. eng. who shows most outstanding leadership.

Dow Outstanding Junior Award (1:$1,000) JR in chem. eng. scholarship, activities, professionalism; awarded by Dept. of Chem. Eng.

Paul M. Horton Award (1:$300) Outstanding LSU chem. eng. graduate who enters LSU Graduate School.

Pfeffer Award (1) Outstanding graduate in chemical eng.

John J. Slep Memorial Scholarship Award (1 varies) GR in Audubon Sugar Institute, studying sugar technology; awarded by Slep Award Comm. of A.S.L.

Norbert Rillieux Award (1:$250 and Plaque) Outstanding African-American graduate in eng.
Freshman Scholarships

Freshman Scholarships in Petroleum Engineering (varies: $3,4-00 FR in pet. engr.; awarded by Dept. of Pet. Engr.
LA Chemical and Petroleum Industries Freshman Scholarship (22:500) FR in chem. engr.; awarded by Dept. of Chem. Engr.
Boykin and Mable Pegues Scholarship (40:500) FR in engr.; awarded by Col. of Engr.

Other Scholarships

*Ned Adler Memorial Scholarship (1:51,000) UG in mech. engr.; awarded by Mass. Inst. of Tech.
W. R. Aldrich Scholarship (varies: $1,000) UG in engr.; awarded by Col. of Engr.
*Allied Chemical Scholarship (varies: $1,000) UG in chem. engr.; awarded by Chem. Dept.
American Association of Drilling Engineers Scholarship (varies: $1,000) UG in pet. engr.; awarded by Dept. of Pet. Engr.
Amoco Foundation Scholarship (varies: $1,000) UG in pet. engr.; renewable; awarded by Dept. of Pet. Engr.
Atlantic Richfield Co. Scholarship (1:51,000) UG minority in chem. engr.; awarded by Dept. of Chem. Engr.
Atlantic Richfield Co. Scholarship (varies: $1,000) minority in pet. engr.; awarded by Dept. of Pet. Engr.
R. C. Baker Foundation Award in Mechanical Engineering (varies: $1,000) UG in mech. engr.; awarded by Dept. of Mech. Engr.
R. C. Baker Foundation Scholarship in Petroleum Engineering (varies: $1,000) UG in pet. engr.; awarded by Dept. of Pet. Engr.
*Ben Burns Student Fund (varies) For SR student projects and/or scholarships in the Dept. of Mech. Engr.; awarded by Dept. of Mech. Engr.
CAMECO Award in Agricultural Engineering (3:500) Student in agr. engr. or indus. & agr. tech.; 2.25 gpa; awarded by Dept. of Biol. & Agr. Engr.
Chevron Oil Company Scholarships in Chemical Engineering (varies: $1,500) UG in chem. engr.; awarded by Dept. of Chem. Engr.
Chevron Oil Company Scholarships in Petroleum Engineering (varies: $1,500) UG in pet. engr.; U.S. citizen or permanent immigration visa; awarded by Dept. of Pet. Engr.
B. C. Craft Memorial Foundation Scholarship (varies: $1,000) UG in pet. engr.; awarded by Dept. of Pet. Engr.
Exxon Chemical Intermediates Technology Scholarship (1:55,000 for 4 yrs.) Minority student with outstanding academic record; chem. engr. major.
Gas Processors' Association Scholarship (2:1,000) JR/ SR interested in petroleum industry; financial need and academic performance; awarded by Col. of Engr.
Gerard Family Undergraduate Scholarship in Chemical Engineering (varies: $1,000) UG in chem. engr.; LA resident; awarded by Dept. of Chem. Engr.
*Henry Gilbert Scholarship (varies: $1,000) UG/IR in pet. engr.; preferably from New York area; awarded by Dept. of Pet. Engr.
*Michael Glassell Memorial Scholarship Fund (3:500) UG in civil engr.; awarded by Dept. of Civil Engr. Interfraternity Athletic Council president, and XAE president.
L. H. Gottlieb Memorial Scholarship See College of Basic Sci.
Gulf South Compression Conference Scholarship (7:550) SO/JR/SR in chem., civil, elect., ind., mech., or pet. engr.; need and academic promise; awarded by Col. of Engr.
*R. L. Hartman Scholarship (1:51,000) JR in chem. engr.; 3.00 gpa; financial need; native Louisianaian; awarded by Dept. of Chem. Engr.

Institute Scholarship of America of Chemistry (1:51,000) JR/SR in chem., elec., or mech. engr.; awarded by Col. of Engr.
International Paper Honor Scholarship (2:000) One LA resident and one nonresident; full tuition waivers for chem. eng. majors with outstanding academic credentials.
*Kaiser Aluminum Scholarship in Engineering (varies: $1,000) minority preference; awarded by Col. of Engr.
LA Engineering Society Auxiliary (Baton Rouge Chapter) Award (3:51,000) UG in engineering from B. R. area; awarded by Col. of Eng.
*LA Engineering Society Auxiliary (New Orleans Chapter)—Samuel McCuin Young Scholarship (1:51,000) UG in civil eng. from N. U. area, apply to Dept. of Civil Engr.
LA Engineering Society, Baton Rouge Chapter Scholarship (1:500) UG in engr.; need and academic promise; scholarship (varies: $1,000)—awarded by Col. of Engr.
Marathon Oil Company Scholarship in Chemical Engineering (3:51,1,000) UG in chem. engr.; awarded by Dept. of Chem. Engr.
Marathon Oil Company Scholarship in Petroleum Engineering (varies: $1,000) UG in pet. engr.; awarded by Dept. of Pet. Engr.
McDermott Corporation Scholarship (3:51,000) JR/SR in chem. engr.; awarded by Col. of Engr.
Boykin and Mable Pegues Scholarship (80:50,000) UG in chem. engr., civil engr. elec. engr., ind. engr., mech. engr., and pet. engr.; awarded by Col. of Eng.
Petroleum Engineering Alumni Scholarship (varies: $1,000) UG in pet. engr.; awarded by Dept. of Pet. Engr.
Phillips Petroleum Scholarship in Chemical Engineering (1:51,000) UG in chem. engr.; awarded by Dept. of Chem. Engr.
PPG Industries Scholarship (varies: $1,000) UG in chem. engr.; awarded by Dept. of Chem. Engr.
Routh Family Scholarship (varies: $1,000) JR or SR in chem. engr., elec. engr., or pet. engr.; awarded by Col. of Engr.
Sclumberger Foundation, Inc. Scholarship (varies: $1,000) JR/SR in pet. engr.; awarded by Col. of Eng. and LEB-RR.
T. H. Scott Scholarship in Agricultural Engineering (2:500) UG with 2.50 average in agr. engr. or indus. & agr. tech.; awarded by Dept. of Biol. & Agr. Engr.
T. H. Scott Scholarship in Agricultural Engineering (2:500) UG with 2.50 average in agr. engr. or indus. & agr. tech.; awarded by Dept. of Biol. & Agr. Engr.
Major J. Stewart Slack, Jr., Memorial Scholarship See College of Basic Sci.
Society of American Military Engineers Scholarship (1:500) ROTC/SAME member in engr.; awarded by Col. of Engr.
Society of Petroleum Engineers, Delta Section, Scholarship (varies: $1,000) JR/SR in pet. engr.; awarded by Soc. of Pet. Engr.
Society of Petroleum Engineers, Evangelene Section, Scholarship (varies: $1,000) UG in pet. engr.; awarded by Soc. of Pet. Engr.
Society of Petroleum Engineers, South Louisiana Section, Scholarship (varies: $1,000) UG in pet. engr.; awarded by Soc. of Pet. Engr.
Star Enterprise Scholarship (4:51,000) UG in chem. engr., mech. engr., elec. engr., and minorities engr. program; awarded by respective depts. and Col. of Engr.
Texaco Foundation Scholarship (varies: $1,000) UG in pet. engr.; awarded by Dept. of Pet. Engr.
Unocal Foundation Scholarship in Petroleum Engineering (varies: $1,000) UG in pet. engr.; basis of scholastic achievement; awarded by Dept. of Pet. Engr.
Vulcan Materials Scholarship in Chemical Engineering (1:51,000 UG in chem. engr.; awarded by Dept. of Chem. Engr.
Walk Hayden and Associates Scholarship (varies: $1,000) JR or SR in chem. engr., civil engr., elec. engr., and mech. engr.; awarded by respective depts. and Col. of Engr.
Gail Robinson Wilbur Scholarship (1:51,000) SO female; awarded by Col. of Engr.
Louis Winstead Memorial Scholarship (2:250) SO in engr., or indus. & agr. tech.; with 2.50 gpa; awarded by the Dept. of Biol. & Agr. Engr.

GENERAL COLLEGE

Associated General Contractors of LA, Inc. (varies: $500/yr.) SO in const.; selection based on need and associ-
Bryan Stuman Memorial Scholarship (1;$200 per sem.)  
SOPHR in math and computer science with 3.00 GPA; awarded by Math Man Sch. of Mass Comm.  
•Joseph M. Silverberg Memorial Scholarship (1;varies)  
NR in sciences, graduate of LA high school; 3.00 GPA; awarded by Math Man Sch. of Mass Comm.  
Byron St. Dietz Endowed Scholarship (1;$1,500)  
SR in music, comm. with demonstrated ability for and commitment to print and broadcast journalism; awarded by S&AS Com.  
Barry Swanson Memorial Scholarship (1;varies) UG/GR, planning a career in sports reporting; awarded annually by the Man Ship Sch. of Mass Comm.  
Jean Wheeler Memorial Scholarship (1;$500) UG female with demonstrated interest in mass comm. and/or theatre; 3.00 GPA; awarded by LA Academically Chapter of American Women in Radio and Television, in consultation with faculty of relevant departments.  
WRKF Scholarship (1;$500) Mass comm. major; 60 hours minimum; 2.75 GPA required.

SCHOOL OF MUSIC

Awards

Lucile J. Blum Award in Music (2;varies) Awarded to vocal and instrumental music students receiving B.M. degree with highest GPA at graduation.  
LSU Honor Award (1;$270) Awarded to student with highest GPA recorded when entering the school from JD; renewable for total of 3 yrs.; must maintain at least 3.00.  
LA Federation of Music Clubs Honor Award (2;2552 fee exemption) High school student earning superior rating in voice, piano, or violin in State Competition Festival sponsored by Louisiana Federation of Music Clubs; awarded on recommendation of dean.  
Tiger Marching Band Award (1;640) Every Tiger Marching Band member eligible for cash service award at end of each fall semester; participation by audition only; full-time student with minimum GPA of 2.00.

Annual Scholarships

Arthur Manly Culpepper Scholarship (1;$290) SR member of LSU band; awarded by Sch. of Music.  
Galasso-Hermann Scholarship (Pi Kappa Lambda) (1;varies) Outstanding music student; awarded by Pi Kappa Lambda.  
•Forest F. Griffen Memorial Scholarship (varies) Outstanding UG/GR tuba or low brass student(s); awarded by low brass student(s).  
Frances Taylor Kurzweg Distinguished Pianists Schol- arship (1;varies) UG/GR; awarded to incoming student by annual competition.  
Byron Lamb Memorial Scholarship (varies) Awarded to a gifted incoming low brass student.  
Music Activity Scholarship (varies) UG/GR; renewable; based on competitive auditions and academic standing; awarded by dean.  
Baton Rouge Music Club, Marshall Peery Scholarship (1;varies) JR voice student, by audition; awarded by Baton Rouge Music Club.  
Baton Rouge Music Club, Gertrude Boll Saucler Scholar- ship (1;varies) JR instrumental student; by audition.  
Opera Guild of Baton Rouge Scholarship (2;varies) Outstanding voice student who is (or will be) enrolled in opera workshop; awarded by Sch. of Music.  
Theodore Presser Foundation Scholarship (1;varies) UG in Sch. of Music who plans to teach music; awarded by Sch. of Music.  
Early Redding Memorial Prize in Musical Theatre (1;$500) UG/GR voice major; awarded by Sch. of Music.  
Baton Rouge Rotary Club Scholarship (1;varies) Voice student in Sch. of Music; awarded by Rotary Club.  
Gertrude Boll Saucler Scholarship (varies) Academically and financially dependent student; awarded by dean.  
Oranmy Welch Young Scholarship (varies) Awarded to gifted incoming violin student.

Endowed Scholarships

Frank Collins Memorial Scholarship (1;varies) UG/GR organ major; awarded by Sch. of Music.  
•Helen Lilley Cordiner Scholarship in Violin (1;varies) UG violin student, major; awarded by Dr. John G. Lilley and Frances J. G. Lilley.  
•Dr. Alan M. Gallace Memorial Scholarship (1;varies) UG incoming violin student; awarded by Sch. of Music.  
•Polyt Gibbs Scholarship (varies) Piano pedagogy student; awarded by Sch. of Music.  
•L. Bruce Jones Memorial Scholarship (varies) UG/GR major in music education; excellent academic record; awarded by Sch. of Music.  
•Kenneth Klaus Viola Scholarship (1;$500) String major in Sch. of Music; musical and academic ability and financial need; awarded by Sch. of Music.  
•Allison R. and Mae Stout Memorial Scholarship (1;varies) UG/GR in Sch. of Music.; awarded by Sch. of Music.  
•Byron Lamb Memorial Scholarship (1;varies) Outstanding UG/GR tuba or low brass student; awarded by Sch. of Music.  
Carleton Liddle Scholarship in Piano (varies) Awarded by Sch. of Music.  
Frank C. Page Memorial Scholarship (1;varies) UG/GR music major; awarded by dean.  
Brent Rhodes Memorial Scholarship (1;51,000/semester) Awarded to UG studying percussion who has no other tuition awards.  
Martha Sue Bihan Stevens Memorial Scholarship (1;$350) UG in Sch. of Music; awarded by Sch. of Music.  
•Barrett and Mae Stout Memorial Scholarship (1;varies) SR music student; distinguished gpa in music theory and literature; awarded by Sch. of Music.  

OTHER SCHOLARSHIPS AND AWARDS

Board of Supervisors Scholarship (variable;exclusion, equal to amount of tuition for UG; GR; two-thirds of tuition for professional school students) UG/GR; professional student; awarded by Board of Supervisors and President of LSU.  
Boyd-Ewing Post 58 American Legion Scholarship (1;$100) UG entering advanced ROTC program; awarded by executive committee of Boyd-Ewing Post 58, on recommendation of Army or Air Force Commandant of Cadets.  
Robert L. Brooksher/Mid-Continent Oil and Gas Asso- ciation Energy Scholarship (1;varies) JR or SR in an energy related discipline; awarded by a special committee on the basis of academic credentials.  
Robert Stevens Butler Award (1;varies) Port Allen High School graduate with highest GPA during FR yr. at LSU; awarded by SA&S Com.  
Nathanial M. Caffe Freshman English Medal (1) Awarded for best theme written by student taking FR English; awarded by Edward Martin English Comm.  
Campus Club Scholarship Award (1;5,000) 2nd semes- ter SO with GPA of 3.50 or better; son or daughter of persons eligible for Campus Club membership; awarded by SA&S Com.  
Vincent E. Cangelosi Scholarship Fund (1;$500) FR with composite ACT score of 25 or above or SAT score of 1100 or above; 3.00 high school GPA or better.  
Capitol Lodge No. 29, Knights of Pythias Memorial Scholarship (1;$1,000) Entering FR, awarded by SA&S Com.  
Lucille May Grace Dent Memorial Scholarship (1;100) Outstanding SO Army ROTC cadet accepted in advanced ROTC; awarded by special military science committee.  
•Leslie G. Gruber Scholarship (varies;2,800) Incoming Tennessee high school graduate; academic ability.  
•Leon Guerrero—Al Evans Memorial Scholarship (1;$1,000) LA high school graduate; academic ability and financial need; awarded by SA&S Com.  
•Fannie Guy Memorial Scholarship (1;500) Graduate of DeSoto Parish public high school; awarded by SA&S Com.  
Halbedel Trust Scholarship Fund (3;500) UG needing financial assistance; awarded by SA&S Com.  
Honors Student Honor Award (13;$270) Based on academic record; awarded on recommendation of student’s dean.  
Elyan Hunt Scholarship (1;250) Female FR who has completed 15 hrs. with a gpa range between 2.00-2.499; graduate of a LA high school.  
International Student Undergraduate Nonresident Honor Award (5;$3,300) Internat. student; awarded by Internat. Educ. Committee.  

Financial Aid - Scholarships
GRADUATE SCHOLARSHIPS AND AWARDS

For information on scholarships and awards for students in the Graduate School or professional schools, see the publications issued by those divisions.

ROTC Scholarships

Air Force ROTC Scholarships

The Air Force ROTC College Scholarship Program offers assistance to outstanding men and women who enroll in the Air Force ROTC program. Each scholarship provides for payment of tuition (resident and nonresident), textbook expenses, laboratory and associated fees, and room and board for four years. Since the entering senior year students are exempt from tuition, room, and board charges, the scholarship allows additional funds to be placed in a six-year academic plan. The scholarship is a four-year commitment and extends the student’s financial aid eligibility beyond the normal graduation year.

Scholarship winners in pre-health receive their professional and graduate training at Air Force expense. AFROTC two- and three-year scholarship recipients are also entitled to the free room and meals. Interested students should contact the Director of Air Force ROTC, Louisiana State University, Baton Rouge, LA 70813.

Army ROTC Scholarships

The Army ROTC Scholarship Program is designed to offer financial assistance to outstanding men and women interested in the Army as a career. Each scholarship provides for the University fee, nonresident fee, Student Health Service fee, laboratory fees, other required fees, an allowance for books, and $100 per month subsistence allowance for up to 10 academic months each year the scholarship is in effect.

Scholarships may be awarded for two to four years. Four-year scholarships are open, on a competitive basis, to high school juniors and seniors. Applicants for four-year scholarships must be completed and returned prior to December 1 in the senior year's summer application. The scholarship may be obtained by writing Army ROTC Scholarship, LSU, P.O. Box 23099, Baton Rouge, Louisiana 70894-5099. The on-campus three- and two-year scholarships are open on a competitive basis, to all qualified freshmen and sophomores.

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 for up to 10 academic months each year the scholarship is in effect.

Interested students should apply to the NROTC Naval-Army Corps Scholarship Program, P.O. Box 23099, Baton Rouge, LA 70894. Interested students should visit the NROTC University Office to obtain a scholarship application.

Federal Financial Aid Programs

The Office of Student Aid & Scholarships administers a number of federally funded financial aid programs to help students continue their education. All such programs are subject to regulations authorized by the United States Department of Education, as well as University policies consistent with these federal regulations and are subject to change.

These programs include grants, educational assistance for students with substantial financial need, campus-based programs, limited funding programs administered by LSU, and federal family education loans. Detailed information on these programs can be found in the brochure, "Financial Aid and Scholarships.”

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 need may qualify. Funds are limited.

• State Student Incentive Grants—Full-time undergraduate students who are Louisiana residents and U.S. citizens may qualify. Eligibility is determined by financial need and the student’s academic record. Funds are limited.

Campus-Based Programs

• Federal Perkins Loans—Low-interest (5 percent) loans made by LSU and repay to LSU. Students must show financial need and be enrolled at least half-time. Deferment and cancellation privileges are available under certain circumstances.

• Federal Work-Study Program—Campus jobs provided to full-time students 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 who are actively employed have the option of choosing job sites designated as community service agencies.

Federal Family Education Loans

Students borrowing under the Federal Family Education Loans Programs described below, except PLUS, are required by federal regulation to have an entrance interview before they receive their first check at LSU. When a student borrower graduates, resigns, or otherwise ceases to be enrolled on at least a half-time basis at LSU, they are required to attend exit interviews. Schedules for these interviews are available from the Office of Student Aid & Scholarships. Federal regula-
ELIGIBILITY FOR FINANCIAL AID

In general, new, transfer, and re-entry students who meet the following criteria are eligible to apply for the various loan, job, and grant programs. The student must:

- Be enrolled as a regular student in a degree-granting or certificate program.
- Be a U.S. citizen or eligible non-citizen (permanent resident).
- Be enrolled at least half-time (most programs). Students should see a Student Aid officer if changing enrollment status during the award year.
- 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

Continuing new or prospective LSU 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 at most high schools or by contacting the LSU Office of Student Aid & Scholarships. "Renewal Applications" are mailed directly to prior applicants by the U.S. Department of Education. It is recommended that the application be filed no later than March 1 for summer or fall enrollment and 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.

Satisfactory Academic Progress for Purposes of Financial Aid Eligibility

In order to receive financial aid, a student must be making satisfactory academic progress. For the purpose of participating in Student Aid programs, the LSU Faculty Senate Committee on Student Aid & Scholarships has established the following policy for determining satisfactory academic progress:

- **Grade Requirement**—The student must not be on academic probation; and
- **Load Requirement**—The student must earn the appropriate number of hours, as indicated below.

**Undergraduates** (freshmen, sophomores, juniors, seniors)—An undergraduate shall be expected to earn at least an average of 18 hours of credit for each academic year when registered as a full-time student or a proportionate number of hours of credit (usually 75 percent of hours carried) when registered as a part-time student. This will apply to each academic year in which the student is enrolled as well as to the student’s entire academic history on the LSU campus. If one of these criteria is met (grade or load), the student will be given the opportunity by the Office of Student Aid & Scholarships to file an appeal to his/her academic college.

**Graduate students**—consult the Graduate Bulletin.

**Professional school students**—consult publications issued by those divisions.

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 Job Location and Development Program, located in B12 Coates Hall, provides assistance with locating part-time jobs on- and off-campus. Graduate students should inquire about the availability of assistantships in their departmental offices.

Short-Term LSU Loans

Full-time students classified as second-semester freshmen or higher, may apply for short-term Hiram Student Loans for up to $100 ($200 for graduate/professional school students). Students must not be on scholastic probation to receive these loans. Loans are made starting on the first day of classes and continuing for two weeks after registration. 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 the Hiram Student Loan by the maturity date may jeopardize their chances of making 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.

Services for Students with Disabilities

The Office of Student Aid & Scholarships is a TDD (Telecommunications Device for the Deaf) location. Hearing impaired students may call 388-3675 to communicate with a financial aid officer.

Students with physical disabilities who need to confer with a financial aid officer should contact the office in advance for an appointment so that appropriate accommodations may be made.

STATE ASSISTANCE

The Louisiana Honor Scholarship, the Louisiana Tuition Assistance Plan, T. H. Harris Scholarships, Rockefeller Scholarships, Education Majors’ Scholarships, and Paul Douglas Teaching Scholarships are available at state-supported public colleges and universities. Correspondence and requests for applications should be addressed to the Office of Student Financial Assistance, Scholarship Division, P.O. Box 91202, Baton Rouge, Louisiana 70821-9202.

Veterans’ Orphans Scholarships are awarded through the Department of Veterans’ Affairs of the State of Louisiana. Vocational Rehabilitation Grants for disabled students are awarded through the Department of Vocational Rehabilitation, 2097 Beaumont Drive, Baton Rouge, Louisiana 70806.

VETERANS’ BENEFITS

The Office of Student Records & Registration, 112 Thomas Boyd Hall, provides counseling and information for veterans attending LSU. Enrollment certifications to the VA 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 an advance pay should notify this office at least 30 days prior to registration.
The disciplinary authority of LSU is derived from the provisions of the Louisiana Revised Statutes that established the Board of Supervisors with the power to adopt rules and regulations necessary for the government of the University consistent with the purposes for which it was founded and to adopt rules and regulations governing student conduct.

LSU has a responsibility to protect its educational purposes, the health and safety of its community, and the safety of 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.

**Code of Student Conduct**

Administrative procedures for student discipline resulting from severe breaches of conduct that could result in the student’s separation from the University or in other disciplinary action are outlined in the Code of Student Conduct. Students charged with violations of conduct listed in the Code of Student Conduct are provided a due process administrative hearing with the Dean of Students or a hearing before a panel of the Committee on Student Conduct composed of faculty members, students, and administrators.

**The Handbook**

The students, faculty, and staff of LSU have jointly produced The Louisiana State University Handbook of Rights and Responsibilities in the Student-University Relationship. This Handbook was promulgated by the Office of the Chancellor with the goal of assisting students, faculty, and administrators in understanding the rights and responsibilities of both the student and the University in the student/University relationship. All members of the University community are encouraged to become familiar with this Handbook. Copies may be obtained from the Office of the Dean of Students or the Office of the Vice-Chancellor for Student Services.

**Other Rules and Regulations**

The University issues and publishes other rules and regulations governing student activities, conduct, and student organizations. Certain responsibilities for assisting the University in the administration of these rules and regulations are delegated to student boards, councils, and courts.

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 Services has administrative responsibility for coordinating all University disciplinary procedures and practices.

**ENROLLMENT PRIVILEGES AND RESPONSIBILITIES**

**Registration**

Students may attend class only after completion of registration, including payment of fees as stipulated in the "Undergraduate Fees and Expenses" section of this catalog. The Office of Student Records & Registration will provide evidence of proper registration to instructors. Students whose names are not on the official roster cannot attend the class unless they provide evidence that they have registered for that class.

Students must obtain special permission from their academic deans to register after classes begin. Approval by the Office of Academic Affairs also is required after the official "Final date for adding courses for credit," specified in the "Academic Calendar." Students may add or drop courses or make section changes with approval of the appropriate dean within the periods designated in the "Academic Calendar."

**Identification Cards**

When first enrolled in the University, students are issued permanent photo identification 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 ID Production Center, 221 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 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 re-enrolling after an interruption of study. If a replacement card is issued, the original card is no longer valid and cannot be made 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 in deans’ offices or in the Office of Student Records & Registration.

**First Class Meeting**

Students who fail to attend the first class meeting without prior arrangement with the department may be required to drop the course to make space available to other students. Students have the responsibility to assure that they have been dropped; otherwise, they are liable for a grade of "F" in the course.

**Attendance**

Students are expected to attend all classes regularly and punctually, and to observe any special attendance regulations stated by their college, school, division, or the instructor. The instructor may report a student's absence 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.

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 their academic advisers. Any schedule changes should be made as soon as possible after the beginning of classes.

Through the sixth class day, courses may be added, dropped, or sections changed, using the telephone registration system. After the sixth class day, students initiate course drops using a form available in their college dean's office. Through the 14th class day, students may drop courses without receiving a grade of "W." A grade of "W" will be entered on a student's record for any course dropped between the 14th class day and the final date for resigning from the University and/or dropping courses. The latter is specified in the academic calendar.

Although "W" grades do not affect the grade-point average, an excessive number reflects negatively on a student's record and could have a bearing on the student's academic standing. Therefore, it is recommended (although not required) that students keep the number of "W" grades within the limits shown in the following table.

<table>
<thead>
<tr>
<th>Hrs. Earned at LSU Since August 25, 1989</th>
<th>Limit on Number of Course Drops Permitted</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-29</td>
<td>3</td>
</tr>
<tr>
<td>30-59</td>
<td>1</td>
</tr>
<tr>
<td>60-89</td>
<td>1</td>
</tr>
<tr>
<td>90-119</td>
<td>1</td>
</tr>
<tr>
<td>etc.</td>
<td>1</td>
</tr>
</tbody>
</table>

Students may drop all courses by withdrawing from the University according to the guidelines in the section, "Resignation from the University."

Cancellation of Registration

Students who drop all of their classes prior to the first day of class will have their registration cancelled. These students will receive a 100 percent refund (less the $10 nonrefundable registration fee), but they must apply to re-enter the University before they may register for a subsequent semester or summer term.

Resignation from the University

A student may voluntarily resign from the University beginning with the first day of class through the final day for resigning shown in the "Academic Calendar." Resignation is initiated in the office of the student's academic dean. The student must obtain an approved resignation form and file the form with the Office of Student Records and Registration 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 Student Records & Registration.

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 (including all campuses of the LSU System) 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, it is senior.

See "Course Numbering System" for regulations governing the level of courses students may take, based on their classifications.

Students enrolled in Junior Division are further classified as JD-1 or JD-2, depending upon the number of semester hours of credit earned.

Students are also classified as full-time or part-time in accordance with the following provisions.

Full-Time Students

- **Undergraduate**—must carry 12 or more hours of regular credit in a regular semester or six or more hours in a summer term.
- **Graduate**—must enroll in Graduate School for at least nine hours of work 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 validated University identification card; one subscription to The Daily Reveille, the student newspaper; and the Gumbo 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.

Graduating seniors carrying fewer than the 12 hours required for full-time status may obtain the University benefits normally reserved only for full-time students (including admission to athletic events) by paying full-time fees. However, in no case can this option be exercised to exempt students from minimal residence requirements established by individual schools and colleges.

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 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. Students may register for a maximum of three semester hours beyond the number prescribed for the current semester in their curriculum if, during the preceding semester, they maintained a 3.00 average with no grade lower than "C." In no case, however, will students be permitted to register for more than 21 hours of degree credit in a regular semester. Maximum loads for the summer term are 10 hours for the long session and 6 hours for each short session. A maximum of 12 hours may be earned in any combination of sessions. Under no circumstances can these maximums be exceeded.

To be classified as full-time, students must register for at least 12 semester hours of residence credit in a regular semester or six hours in a summer term. Full-time students who are doing unsatisfactory work because of a heavy academic load may be required by the dean of their college to drop one or more courses, provided such action does not change their full-time status.

Transfer Credit

Prior to registration at LSU, students must submit to the Office of Undergraduate Admissions official transcripts from each college or university attended, regardless of whether credit was earned or is desired. Students who fail to submit required transcripts will be subject to dismissal from the University (all System campuses). 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 the student's college.

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

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 their college or school. Students may not receive credit for work taken concurrently at another college or university without prior written approval from their academic dean.

General Education Credit • Degrees 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 & 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 the course is equivalent to an LSU course, colleges should notify the Office of Undergraduate Admissions so that 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.

LSU System Credit • Students awarded advanced-standing or proficiency credit on other campuses within the LSU System can transfer that credit to LSU insofar as the basis for awarding the credit is comparable to that on this campus. The student is responsible for requesting it on the transcript sent from the other campus to LSU. The Office of Undergraduate Admissions will review any transfer credit and determine if they are offered credit by examination. Students who have earned through credit by examination are not included in the computation of the grade-point average.

Transfer credit is not awarded for work or travel experiences that are not validated through appropriate departmental proficiency examinations at LSU.

Credit by Examination • Credit by examination is limited to 30 semester hours and cannot be used to reduce the minimum residence requirement for graduation. With approval of the appropriate academic dean, credit earned through Advanced-Placement courses of the College Board will be considered in computing the grade-point average.

Credit by examination is limited to 30 semester hours and cannot be used to reduce the minimum residence requirement for graduation. With approval of the appropriate academic dean, credit earned through Advanced-Placement courses of the College Board will be considered in computing the grade-point average.

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.

No student may register concurrently for more than one section of a course, except with approval of the department chair in instances where the different sections cover substantially different material.

EXAMINATIONS

LSU Departmental Proficiency Examinations

Proficiency tests are considered equivalent to final examinations in college-level courses. Ordinarily, new transfer, re-entry, and continuing students must obtain permission from their academic deans and from the chair of the department offering the course 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 Student Records & Registration will issue an official permit upon payment of the required fees. No instructor may give a proficiency examination until he/she has received the official permit.

• 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 or if a proficiency examination has been attempted will be recorded; credit will not be awarded. A student may take a proficiency examination in a particular course only once.

• Students are not permitted to schedule proficiency examinations in courses that they have audited, in courses in which they have earned unsatisfactory grades, or in courses that they have dropped with grades of "W."

• Credit earned through proficiency examinations will not be used in computing the student's grade-point average.

• 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 Measurement and Evaluation Center.

Midsemester Examinations

The "Academic Calendar" shows the midsemester examination period, Faculty must report midsemester grades in all undergraduate courses. These grades are available to students in the college dean's office following the examination period.

Concentrated Study Period

The five-day period (Wednesday through Sunday) immediately preceding the week of final examinations will be set aside as a concentrated study period. During this time, no extra-curricular student activities, such as social and athletic events, will be held on- or off-campus. There should be no major examinations in academic courses, other than those considered laboratory courses. Any exceptions to this policy must receive approval from the Office of Academic Affairs.

Final Examinations

Six days (Monday through Saturday) will comprise the final examination period. 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, dean/college and the Vice-Chancellor for Academic Affairs.

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 which must be given in 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 and with the concurrence of the instructor involved.

GRADING SYSTEMS

Faculty members have the responsibility to provide the University and the student with an individual evaluation of each student's work. At the beginning of each semester, faculty members are expected to announce to their students the basis on which the final grade will be determined. On request, they 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. Unreturned examinations and other graded material should be kept on file for at least six months following the end of the academic term. Faculty members who leave the campus during this period should file all course material in their departmental offices.

It is the right and responsibility of faculty members to determine and assign the grade for each student enrolled in their courses beyond the final date for withdrawing with a "W," as specified in the "Academic
Calendar." The instructor's assignment of a grade is final; the grade may not be changed or altered except through the academic appeal procedure, following appropriate investigation.

In extraordinary circumstances that make it impossible for the instructor to fulfill the responsibility of determining a grade, the department chair shall assign the grade. In such a case, the department chair may elect to award the grade of "P" (Pass). This "P" grade would be excluded from the normal limits of 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 distinction of the course material; a grade of "B," good mastery; a grade of "C," acceptable mastery. A grade of "D" indicates minimally acceptable achievement for credit; in some colleges a grade of "D" does not allow that credit to be applied toward the degree. A grade of "F" is failing. A grade of "P" (pass) denotes satisfactory completion (grade of "C" or better) of advanced-standing or proficiency examinations, pass-fail option courses, and certain other courses. A grade of "NC" (no credit) indicates that no credit is earned.

- A student's grade-point average 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 grade-point average 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 grade-point averages.

- A "W" will be entered on a student's record for any approved course dropped subsequent to the last date specified in the "Academic Calendar." In extraordinary cases, upon written petition, the dean of the student's college may authorize a resignation and/or a drop from a course after the last date specified.

- Work that is of passing quality but which, because of circumstances beyond the student's control, is incomplete, may be marked "I" (incomplete). An "I" grade may be assigned for undergraduates only if the instructor receives appropriate authorization from the dean of the college in which the student is enrolled. If authorization is not received, the instructor is to consider the delinquent work to be of failing quality, and an "I" grade may not be assigned. It is the responsibility of the student to initiate the request for the academic dean's authorization. An "I" grade will be converted to "F" unless it is removed during the next regular semester in which the student is in residence in the LSU System prior to the deadline for adding courses for credit as specified in the "Academic Calendar." In extraordinary cases, the dean of the student's college may authorize that the "I" grade become permanent, or that an extension of time for removing the grade be allowed.

- Grades earned in courses offered by the Hebert Law Center, the School of Medicine, the School of Dentistry, and the School of Veterinary Medicine shall not be considered in computation of the grade-point average of an undergraduate student unless approval is given by the dean or director of the student's college 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, grade-point averages shall be specified to three significant figures (two decimal places), with the last figure to reflect rounding from a four-significant-figure (three decimal places) average 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, 3.950 becomes 3.96, and 3.9549 becomes 3.95. In determining the 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 grade-point average 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.

Academic Bankruptcy

Under specified conditions, undergraduate students who have interrupted their college career for 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. It will, however, be used to compute the grade-point average on the basis of admission to graduate and professional study.

Students qualifying for academic bankruptcy may be admitted on scholastic probation. Details of this policy may be obtained from the Office of Undergraduate Admissions.

Pass-Fail Option for Undergraduates

Some courses have been approved for use as pass-fail courses for all students enrolled in courses with regular grading, students may petition for the pass-fail grading option subject to the guidelines indicated below. In all undergraduate units, 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. To register under the pass-fail option, students must obtain the necessary approval signatures on a petition card that can be obtained from the office of their dean.

Courses passed with a grade of "P" may be offered for degree credit, but the grade will not be considered in computing the grade-point average. An "P" in a pass-fail course will be treated as any other "F" both with regard to credit earned and to grade-point average calculation.

Pass-Fail Option Program for Kinesiology Activity Courses

The following policies apply to kinesiology courses numbered below 1400.

- Students are allowed to enroll under the pass-fail option regarding grade-point average, other courses being taken on a pass-fail basis, and total number of courses completed on a pass-fail basis.

- Only the approval signature of the instructor of the course is required on the petition card.

The petition must be submitted prior to the last day to add courses for credit.

Pass-Fail Option Program for All Other Courses

Limited use of a pass-fail option is permitted at the discretion of the individual colleges and schools, subject to the following policies.

- The pass-fail option is available only to those students whose grade-point average 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 request 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.

Grade Reports

To inform students of their academic status, reports of final grades earned are mailed at the end of each semester and summer term to their grade-mailing addresses, provided their financial accounts with the
University (all System campuses) are current. Students may also obtain their final grades through the LSU Touchtone Information System (REGGIE). Midsemester grades are available through the offices of students’ academic deans.

Transcript of Record

Upon written request, former and currently enrolled students may obtain a transcript of their academic record to date, provided they are current in their financial obligations to the University (all System campuses). Request must include the signature of the former or currently enrolled 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

LSU ensures students access to their official academic and disciplinary records and prohibits the release of personally identifiable information, other than directory information, without the student’s permission, except as specified by law. Complaints regarding alleged violations of students’ rights with regard to privacy of records or access thereto should be sent to the Family Educational Rights and Privacy Act Office, Department of Education, 330 Independence Avenue SW, Washington, D.C. 20201. Copies of the University’s Policy Statement 30 concerning the privacy rights of students may be obtained from the Office of Student Records & Registration.

Directory information is defined as student’s name, local address, and telephone number; student’s home address; date and place of birth; major field of study and classification; participation in officially recognized activities and sports; weight and height of members of athletic teams; dates of attendance; degrees, awards, and honors received; and the most recent previous educational institution attended.

Students who wish to withhold any information in these categories should complete the appropriate form available from the Office of Student Records & Registration within 10 days after the last day of registration in any term, indicating which items should not be considered directory information. The hold will remain in effect until the student requests that it be lifted. Students who desire that their grades not be posted should inform their instructors of their wishes no later than the day of the final examination in each course. Each student who is registered for the fall semester will have his or her name and local address listed in the campus telephone directory unless the appropriate form (available from the Office of Student Records & Registration) is completed within 10 days after the last day of registration.

In general, present or former students have the right to review their own educational records for information and to determine their accuracy. Parents of dependent students, as defined by the Internal Revenue Service, have the same rights. A photo I.D. or personal recognition by the custodian of record will be required before access is granted.

Grade Appeals

Appeals of final grades must be initiated by the student within 30 calendar days after the first day of classes in the next regular semester. The procedure is as follows:

1. The student should meet with the faculty member concerned to discuss the situation and attempt to arrive at a solution. Although each may have a counselor present, it is believed that under most circumstances, the meeting will be more productive if only the student and the faculty member are present. If an administrative officer (department chair, dean, Vice-Chancellor for Academic Affairs) is the faculty member who assigned the grade that is appealed, that officer should recuse himself or herself from the appellate process; his or her place will be taken by a faculty member appointed ad hoc by the Vice-Chancellor for Academic Affairs or the Chancellor, as appropriate. 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 designee. The faculty member must inform the student of his/her decision within seven calendar days. If the decision reached requires change in an official University record, the faculty member must comply with all University regulations and procedures necessary to accomplish the change.

A change of grade is accomplished by filing a “Grade Correction Report.” A satisfactory reason for the change is “academic appeal.” The department chair and/or the student’s dean (dean of the college in which the student is enrolled) may request documentation of the facts of the matter in question with respect to approval of the grade change.

2. If the matter is not resolved between the student and the faculty member, and the student wishes to pursue the appeal, he or she must notify 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 a counselor. At the close of the meeting, or within seven calendar days thereafter, the department chair shall make a decision. If a decision is made at the close of the meeting, it is to be given orally to all present. If the matter is taken under advisement, the department chair shall inform all parties, including the student’s dean, of his or her decision in writing.

If the decision reached requires change in an official University record, the faculty member must comply with all University regulations and procedures necessary to accomplish the change. If the student is not satisfied with the decision reached, he or she may appeal 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 student’s appeal must be in writing on a Student Appeal Form available in department and college offices and must be submitted within 14 calendar days after notification of the department chair’s decision. The form 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 Student Appeal Form, the dean must promptly forward copies to the department chair and faculty member concerned, who must promptly reply with individual written statements supporting their previous actions. Either may request that a hearing panel be convened. Copies of the written replies must be forwarded to the student.

When the department chair’s and faculty member’s positions have been reversed, the student may choose one—and only one—of the following options: (1) The dean may decide the question on the basis of the written appeal and the faculty member’s and department chair’s written requests; (2) The dean may meet with all parties concerned, who may be accompanied by counselors if desired, and, after discussion, reach a decision; or (3) The dean may refer the appeal to a hearing panel for their recommendation.

If a hearing panel has been requested by the student, the faculty member, or the department chair, the dean must convene such a panel.

Hearing panels to consider grade appeals will be appointed by the dean and shall be composed of three faculty members selected by the dean, with no more than two from the same department, and two students appointed by the president of the college’s student governing body. The dean should designate the chair of the panel. The panel shall hold a hearing with the department chair, the faculty member, and the student, each of whom may be accompanied by a counselor. 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 30 calendar days from the date of receipt of the student’s appeal. Copies 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...
must comply with all University regulations and procedures necessary to accomplish the change.

4. If any party to the appeal 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 Vice-Chancellor for Academic Affairs a written petition for review. This petition, which must be filed within seven calendar days after receipt of the decision in step 3, 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 Vice-Chancellor for Academic Affairs shall decide within 14 calendar days after receipt of the petition whether further action should be taken. If the decision is reached that a review is not justified, the student and all parties, including the student’s dean, will be so notified.

If the Vice-Chancellor for Academic Affairs decides to respond favorably to the petition for review, he or she will hold a formal meeting with all parties and their counselors, if desired, and reach a decision based on discussions at this meeting, as well as on all written materials furnished. Once a decision is reached, the Vice-Chancellor for Academic Affairs will notify all parties, including the student’s dean, of his or her decision. The decision of the Vice-Chancellor for Academic Affairs 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.

**Appeal of Academic Ineligibility To Enroll**

Undergraduate students dropped from the University because of scholastic deficiency may appeal their ineligibility based on extenuating circumstances. Such appeals must be submitted to the student’s dean at least seven calendar days prior to the beginning of the semester/summer term in which the student 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 on academic probation for the next semester/term
- the dean may set conditions based on the student’s situation, that 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 Vice-Chancellor for Academic Affairs and Provost.

**SCHOLASTIC REQUIREMENTS**

The following provisions apply to all students, except those enrolled as extension, PASS, or “visiting” students. For details regarding the use of correspondence study grades to determine scholastic standing, see "Undergraduate Admission." Courses taken at Southern University through the LSU-SU Cooperative Program are recorded as transfer credit.

**Definitions**

- **Grade-Point Average** • The 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 grade-point average of 2.652.
- **Overall Grade-Point Average** • The overall grade-point average is calculated on work attempted at any college or university.
- **LSU System Grade-Point Average** • The LSU System grade-point average is calculated on all work attempted at LSU and at any other institution in the LSU System.
- **Good Academic Standing** • A student whose GPA on LSU work and on all work attempted is 2.00 ("C") or higher is considered to be in good academic standing.

**Academic Warning**

At the end of the fall or spring semester or summer term, students will be placed on academic warning status if their grade-point average is one to more quality points below a 2.00 on all work attempted or on all work attempted in the LSU System. A notation to that effect will be entered on their transcripts.

**Scholastic Probation**

At the end of the fall or spring semester or summer term, students will be placed on scholastic probation if their grade-point average is 10 or more quality points below a 2.00 on all work attempted on all work attempted or on all work attempted in the LSU System. Students may also be placed on probation on the basis of unsatisfactory progress toward meeting the specific requirements of their academic program. Such students will be informed in writing of the conditions required to continue in their academic program.

Students will remain on scholastic probation until they have an overall average of 2.00 or higher on all college work attempted and all work attempted in the LSU System.

Students who have been removed from scholastic probation will be placed on probation again at the end of any fall or spring semester in which their LSU or overall average is less than 2.00.

**Scholastic Drop**

Students on probation will be dropped from the University at the end of any fall or spring semester if their average is less than 2.00 either on all work attempted or on all work attempted in the LSU System that semester.

Students dropped for scholastic deficiency may enroll in the summer term at LSU. If their quality-point deficit is totally removed during the summer term, they may petition their dean to enroll for the fall semester.

Students on scholastic drop status may register on a noncredit basis for correspondence courses. They may not apply toward LSU degree requirements credit earned at any institution during the period of their ineligibility to enroll at LSU.

**The Summer Term/Intersession**

Students cannot be placed on probation or dropped from the University on the basis of work taken during the summer term or intersession. They can, however, be placed on academic warning status.

Work taken during the summer term can result in students being removed from academic warning status, scholastic probation, or scholastic drop status.

**Reentry After Scholastic Drop**

Students dropped for the first time for academic reasons can be considered for readmission when they have been out of the University (all LSU System campuses) for one regular semester.

Students dropped the second or subsequent time for academic reasons must remain out of the University (all LSU System campuses) for one calendar year.

In either instance, readmission may be delayed or denied at the discretion of the dean of the college in which they desire to enroll.

Students entering the University after scholastic drop will be admitted on scholastic probation. Reinstatement after a scholastic drop (see "Appeal of Academic Ineligibility to Enroll") will not remove the drop notation from the transcript.

**UNIVERSITY BACCALAUREATE DEGREE REQUIREMENTS**

**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 know these requirements. A student’s adviser or counselor may not assume that responsibility. Any substitution, waiver, or exemption from any established departmental or college requirement or academic standard must be approved only with the approval of the student’s dean. Exceptions to University requirements, including the general education requirements, will be
Academic Requirements for Obtaining a Degree

A grade-point average of 2.00 ("C" = 4) on all work taken, except for those courses in which grades of "P", "W", or "F" 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 second record.

Candidates for a bachelor's degree must fulfill a minimum residence requirement of two semesters (or four summer terms), earn at least 30 semester hours of credit at this University (all System campuses), 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 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. The "General Education Requirements" section of this catalog specifies approved courses and the regulations governing applicable credit.

All undergraduate program offered by LSU require a minimum of 128 hours. 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 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).

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.) After the degree audit form has been signed by the appropriate dean, it must be presented to the Office of Student Records & Registration for review. At this time, candidates must apply for a degree and state their name as they wish it to appear on the diploma and in the commencement program.

At their last registration, candidates must pay the graduation fee. This fee is not refundable after the fifth week of classes in a regular semester or the second week of classes in a summer term. 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. For those students who received Stafford or SLS loans, an "exit interview" conducted by the Office of Student Aid and Scholarships is required.

Candidates for degrees are expected to participate in the commencement exercises, unless excused by their deans.

Requirements for a Second Baccalaureate Degree

Persons 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 offered for the degree requiring the fewer number of hours. See "Requirements for a Second Bachelor's Degree" in each college's section of this catalog.

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—By completing residence and academic requirements for two degree programs, a student may earn one bachelor's degree with two majors. By completing residence and academic requirements, and earning 30 hours over the degree requiring the fewer number of hours, a student will earn two separate bachelor's degrees.

• Enrollment in Two Colleges—By completing residence and academic requirements for two degree programs and earning 30 hours more than the degree requiring the fewer number of hours, a student can earn two bachelor's degrees. The student must be accepted for admission to both colleges and must adhere to the regulations of both colleges. In addition, the student must declare a home college where registration will be initiated and permanent files maintained. It is the student's responsibility, however, to maintain contact with the second college to ensure that satisfactory progress is being made toward that degree.

HONORS

Dean's List

Each semester an honor list is compiled. Full-time undergraduate students who earn a semester average of at least 3.50 and who have no "I" grades for the semester are included in the list.

University Honors

The baccalaureate degree is awarded summa cum laude to any student whose LSU (all System campuses) grade-point average is at least 3.90, magna cum laude if the grade-point average is at least 3.80, and cum laude
if the grade-point average is at least 3.70. Students awarded the baccalaureate degree with honors must also have satisfied all additional requirements imposed by their colleges, schools, or departments. Two grade-point averages 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 honors.

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 grade-point average 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 grade-point average, 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.
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 not hurdles to be overcome; rather, they are the means by which students learn to think, describe, interpret, and analyze the world. Their primary aim is to educate, rather than train, and to instill a desire for life-long learning. Specifically, these courses are designed to produce students who have developed:

- an effective command of written and spoken English;
- an informed appreciation of the roles of the arts and the humanities;
- a familiarity with the nature and function of the social sciences;
- an appreciation of the methods of critical inquiry;
- an ability to deal with moral and ethical issues;
- a rational basis for selecting a vocation;
- an understanding of other cultures and other times; and
- a comprehension of how knowledge is acquired and applied.

To fulfill the requirement, students must complete 38 hours of course work in six major areas:

- English composition (six hours)
- Analytical reasoning (six hours)
- Arts (three hours)
- Humanities (nine hours)
- Natural sciences (eight hours)
- Social sciences (six hours)

**REGULATIONS**

- Students must complete the 38-hour general education requirement prior to graduating from LSU. It is recommended that students complete the requirement during their first four semesters at the University.
- Only those courses on the approved list below, and their honors equivalents, may be used to satisfy the general education requirement.
- No more than six hours of credit taken through correspondence study may be applied to a student's general education requirement.
- An entering student may receive three or six hours of credit in English composition on the basis of ACT scores and/or performance on approved placement tests.
- An entering student may receive credit for one or more of the required mathematics courses on the basis of placement test scores.
- Advanced placement and advanced standing credit may be used to satisfy the general education requirement.
- General education courses will be graded on the "A," "B," "C," "D," "F" system. No courses taken on a pass/fail basis will count toward the general education requirement.
- A request for an exception to the general education requirement must be submitted to the dean of the student's college. The student's request and the dean's evaluation of the request must be submitted to the Office of Academic Affairs for a final decision.

**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 & 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 the course is equivalent to an LSU course, colleges should notify the Office of Undergraduate Admissions so that 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.

**PASS AND NONMATRICULATED STUDENTS**

PASS and nonmatriculated students must meet the requirements of the catalog under which they enter a degree program.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1001</td>
<td>Introduction to Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>1011</td>
<td>Art Structure</td>
<td>3</td>
</tr>
<tr>
<td>1440</td>
<td>Historical Survey of the Arts</td>
<td>3</td>
</tr>
<tr>
<td>1441</td>
<td>Historical Survey of the Arts</td>
<td>3</td>
</tr>
<tr>
<td>2470</td>
<td>Survey of 20th Century Art</td>
<td>3</td>
</tr>
<tr>
<td>1716</td>
<td>Music Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>1752</td>
<td>Music Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>1753</td>
<td>Survey of Music History I</td>
<td>3</td>
</tr>
<tr>
<td>1754</td>
<td>Survey of Music History II</td>
<td>3</td>
</tr>
<tr>
<td>1799</td>
<td>Rudiments of Music</td>
<td>3</td>
</tr>
<tr>
<td>2023</td>
<td>Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>1020</td>
<td>Introduction to Theatre</td>
<td>3</td>
</tr>
<tr>
<td>2028</td>
<td>Introduction to Dramatic Form</td>
<td>3</td>
</tr>
<tr>
<td>3020</td>
<td>Classical Epic in Translation</td>
<td>3</td>
</tr>
<tr>
<td>3052</td>
<td>Greek and Roman Tragedy in English Translation</td>
<td>3</td>
</tr>
<tr>
<td>3040</td>
<td>Greek and Roman Comedy in English Translation</td>
<td>3</td>
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<tr>
<td>2050</td>
<td>Introduction to Language</td>
<td>3</td>
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<tr>
<td>2024</td>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>2025</td>
<td>(2026) Fiction</td>
<td>3</td>
</tr>
<tr>
<td>2027</td>
<td>(2028) Poetry</td>
<td>3</td>
</tr>
<tr>
<td>2029</td>
<td>Drama</td>
<td>3</td>
</tr>
<tr>
<td>2123</td>
<td>Studies in Literary Traditions and Themes</td>
<td>3</td>
</tr>
<tr>
<td>2148</td>
<td>Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>2300</td>
<td>Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>3020</td>
<td>(2021) British Literature I: Middle Ages, Renaissance, and 18th Century</td>
<td>3</td>
</tr>
<tr>
<td>3022</td>
<td>(2023) British Literature II: Romans, Victorians, and Moderns</td>
<td>3</td>
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<tr>
<td>3070</td>
<td>American Literature I: Forging a Nation</td>
<td>3</td>
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<tr>
<td>3072</td>
<td>American Literature II: Coming of Age</td>
<td>3</td>
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<tr>
<td>2101</td>
<td>Intermediate French</td>
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<tr>
<td>2102</td>
<td>Intermediate French</td>
<td>3</td>
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<tr>
<td>2155</td>
<td>Readings in French Literature</td>
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<tr>
<td>3071</td>
<td>Survey of French Literature</td>
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<td>Survey of French Literature</td>
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<tr>
<td>3080</td>
<td>French Culture and Civilization</td>
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<td>2090</td>
<td>Germanic Mythology</td>
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<td>2101</td>
<td>Intermediate German</td>
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<tr>
<td>2102</td>
<td>Intermediate German</td>
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<tr>
<td>2155</td>
<td>Readings in German Literature</td>
<td>3</td>
</tr>
<tr>
<td>3083</td>
<td>Survey of German Literature, 1850-1890</td>
<td>3</td>
</tr>
<tr>
<td>3084</td>
<td>Survey of German Literature, 1890-Present</td>
<td>3</td>
</tr>
<tr>
<td>2053</td>
<td>Homer</td>
<td>3</td>
</tr>
<tr>
<td>2055</td>
<td>Greek Drama</td>
<td>3</td>
</tr>
<tr>
<td>1001</td>
<td>(1002) Western Civilization</td>
<td>3</td>
</tr>
<tr>
<td>1003</td>
<td>Since 1500</td>
<td>3</td>
</tr>
<tr>
<td>2001</td>
<td>Ancient Near East and Greece</td>
<td>3</td>
</tr>
<tr>
<td>2002</td>
<td>Rome: Republic and Empire</td>
<td>3</td>
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<tr>
<td>2011</td>
<td>England: Roman Times</td>
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<tr>
<td>1441</td>
<td></td>
<td>2012 Britain from 1689 to the Present</td>
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<tr>
<td>2021</td>
<td>Modern Europe</td>
<td>3</td>
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<tr>
<td>2022</td>
<td>Modern European Survey</td>
<td>3</td>
</tr>
<tr>
<td>2055</td>
<td>(2056) The United States to 1865</td>
<td>3</td>
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<tr>
<td>2057</td>
<td>(2058) The United States from 1865 to the Present</td>
<td>3</td>
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<tr>
<td>1001</td>
<td>Seminar in Ancient Western Civilization</td>
<td>3</td>
</tr>
<tr>
<td>1003</td>
<td>Lectures in Ancient Western Civilization</td>
<td>3</td>
</tr>
<tr>
<td>1101</td>
<td>Seminar in Comparative Civilizations</td>
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<tr>
<td>1103</td>
<td>Lectures in Comparative Civilizations</td>
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<td>2002</td>
<td>Seminar in Roman and Medieval Civilization</td>
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<tr>
<td>2004</td>
<td>Lectures in Roman and Medieval Civilization</td>
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<tr>
<td>3001</td>
<td>European Civilization from 1500 to 1789: Modern World</td>
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<tr>
<td>3003</td>
<td>Western Civilization from 1789: Modern World</td>
<td>4</td>
</tr>
<tr>
<td>2101</td>
<td>Intermediate Italian</td>
<td>3</td>
</tr>
<tr>
<td>2155</td>
<td>Readings in Italian Literature</td>
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</tr>
<tr>
<td>3001</td>
<td>Italian Literature</td>
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</tr>
<tr>
<td>3071</td>
<td>Survey of Italian Literature</td>
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<tr>
<td>3072</td>
<td>Survey of Italian Literature</td>
<td>3</td>
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<tr>
<td>1150</td>
<td>Views of the American Landscape</td>
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<tr>
<td>2050</td>
<td>Physical Geography: The Atmosphere</td>
<td>3</td>
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<tr>
<td>2051</td>
<td>Physical Geography: Land and Water Surfaces, Plant and Animal Realms</td>
<td>3</td>
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<tr>
<td>1001</td>
<td>General Geology: Physical</td>
<td>3</td>
</tr>
<tr>
<td>1013</td>
<td>General Geology: Historical</td>
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<td>1002</td>
<td>Honors: General Geology</td>
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<tr>
<td>1004</td>
<td>Honors: General Geology</td>
<td>3</td>
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<tr>
<td>1007</td>
<td>Introduction to Life Sciences</td>
<td>3</td>
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<tr>
<td>1008</td>
<td>Introduction to Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td>1001</td>
<td>Physical Science</td>
<td>3</td>
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<tr>
<td>1002</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>1201</td>
<td>General Physics for Physics Majors</td>
<td>4</td>
</tr>
<tr>
<td>1202</td>
<td>General Physics for Physics Majors</td>
<td>4</td>
</tr>
<tr>
<td>2001</td>
<td>General Physics</td>
<td>3</td>
</tr>
<tr>
<td>2002</td>
<td>General Physics</td>
<td>3</td>
</tr>
<tr>
<td>2101</td>
<td>General Physics for Technical Students</td>
<td>3</td>
</tr>
<tr>
<td>2102</td>
<td>General Physics for Technical Students</td>
<td>3</td>
</tr>
<tr>
<td>1108</td>
<td>Astronomy Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>1109</td>
<td>Astronomy Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

V. NATURAL SCIENCES

To complete the natural science requirement a student must take at least eight semester hours, including one two-semester sequence from the following list.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1101</td>
<td>The Solar System</td>
<td>3</td>
</tr>
<tr>
<td>1102</td>
<td>Stellar Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>1001</td>
<td>General Biology</td>
<td>3</td>
</tr>
<tr>
<td>1002</td>
<td>General Biology</td>
<td>3</td>
</tr>
<tr>
<td>1201</td>
<td>Biology for Science Majors</td>
<td>3</td>
</tr>
<tr>
<td>1202</td>
<td>General Plant Biology (PHIO)</td>
<td>4</td>
</tr>
<tr>
<td>1201</td>
<td>Biology for Science Majors</td>
<td>3</td>
</tr>
<tr>
<td>1202</td>
<td>Introductory Zoology (ZOOI)</td>
<td>3</td>
</tr>
<tr>
<td>1001</td>
<td>General Chemistry for Non-Science Majors</td>
<td>3</td>
</tr>
<tr>
<td>1002</td>
<td>General Chemistry for Non-Science Majors</td>
<td>3</td>
</tr>
<tr>
<td>1201</td>
<td>Basic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>1202</td>
<td>Basic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>1421</td>
<td>Honors: Introductory Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>1422</td>
<td>Honors: Introductory Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>1007</td>
<td>Introduction to Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td>1008</td>
<td>Introduction to Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td>1001</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>1002</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>1201</td>
<td>General Physics for Physics Majors</td>
<td>4</td>
</tr>
<tr>
<td>1202</td>
<td>General Physics for Physics Majors</td>
<td>4</td>
</tr>
<tr>
<td>2001</td>
<td>General Physics</td>
<td>3</td>
</tr>
<tr>
<td>2002</td>
<td>General Physics</td>
<td>3</td>
</tr>
<tr>
<td>2101</td>
<td>General Physics for Technical Students</td>
<td>3</td>
</tr>
<tr>
<td>2102</td>
<td>General Physics for Technical Students</td>
<td>3</td>
</tr>
</tbody>
</table>

The remaining credit hours may include (1) a laboratory associated with the chosen sequence, (2) an individual lecture course from the following list, or (3) a lecture course from the two-semester list but in a science discipline different from the two-semester sequence.

Laboratories and other individual science courses.

Astronomy
1108 Astronomy Laboratory
1109 Astronomy Laboratory
### Biology
- 1005 Introductory Biology Laboratory ........................................ 2
- 1208 Biology Laboratory for Science Majors .................................. 1

### Chemistry
- 1212 Basic Chemistry Laboratory ............................................. 2

### Geology
- 1601 Physical Geology Laboratory ........................................... 1
- 1602 Historical Geology Laboratory ........................................ 1

### Microbiology
- 1001 Microorganisms and Man .................................................. 3
- 1002 Microorganisms and Man Laboratory .................................. 1

### Physics
- 1100 Introduction to Physics ................................................... 3
- 1208, 1209 General Physics Laboratory for Physics Majors ............. 1, 1
- 2108 Introductory Physics Laboratory ...................................... 1
- 2109 General Physics Laboratory ............................................ 1
- 2401 Introduction to Concepts in Physics .................................. 3

### Zoology
- 1209 Introduction Zoology Laboratory ...................................... 1

### VI. SOCIAL SCIENCES ............................................................ 6

### Anthropology
- 1001 Introduction to Physical Anthropology and Prehistory .......... 3
- 1003 Introduction to Cultural and Social Anthropology ............... 3
- 2015 Introduction to Archaeology .......................................... 3
- 2050 World Archaeology ...................................................... 3
- 2051 Introduction to World Ethnography .................................. 3

### Economics
- 2010 Economic Principles and Problems .................................... 3
- 2020 Economic Principles and Problems (continued) .................... 3
- 2030 Economic Principles .................................................... 3

### Geography
- 1001 Human Geography .......................................................... 3
- 1003 Human Geography ........................................................ 3

### German
- 2075 German Civilization ...................................................... 3

### Honors
- 1003 Lectures in Ancient Western Civilization ......................... 3
- 1103 Lectures in Comparative Civilizations ............................. 3
- 2004 Lectures in Roman and Medieval Civilization .................... 3
- 3001 European Civilization from 1500-1789: The Old Regime ...... 4
- 3003 Western Civilization from 1789: The Modern World ........... 4

### Political Science
- 1001 Fundamental Issues of Politics ....................................... 3
- 2051 American Government ................................................... 3
- 2053 Contemporary Political Systems ...................................... 3
- 2057 Introduction to International Politics ............................. 3
- 2060 Introduction to Political Theory ...................................... 3

### Psychology
- 2000 Introduction to Psychology ............................................ 3
- 2004 Psychology of Adjustment ............................................. 3
- 3081 Personality ............................................................... 3

### Sociology
- 1001 Human Societies .......................................................... 3
- 2001 Introductory Sociology .................................................. 3
- 2411 Industrial Sociology .................................................... 3
- 3601 Social Interaction ....................................................... 3
- 4111 Development of Social Thought .................................... 3

### REGENTS’ CERTIFICATE OF EXCELLENCE

In April 1986, the Louisiana Board of Regents adopted a policy through which students who complete a suggested, 50-hour general education program may be awarded a Certificate of Excellence. To qualify for this certificate, baccalaureate graduates must have attained a 3.00 grade-point average (“A” = 4.0) in all course work taken and must have completed the following general education requirements.

<table>
<thead>
<tr>
<th>ENGLISH</th>
<th>Six hours (composition); three hours (literature)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATHEMATICS</td>
<td>Six hours</td>
</tr>
<tr>
<td>COMPUTER LITERACY</td>
<td>(Requirements to be determined by each campus)</td>
</tr>
<tr>
<td>NATURAL SCIENCES</td>
<td>Eleven hours to include required courses for majors; to include laboratory courses</td>
</tr>
<tr>
<td>ARTS</td>
<td>Three hours</td>
</tr>
<tr>
<td>HUMANITIES</td>
<td>Fifteen hours to include at least three hours at the sophomore level or above; to include at least six hours of a foreign language above the introductory level</td>
</tr>
<tr>
<td>SOCIAL SCIENCES</td>
<td>Six hours</td>
</tr>
</tbody>
</table>

| Total | Fifty hours |

Students may obtain equivalent credit for required or suggested course work in accordance with policies and procedures in other colleges or universities, e.g., for advanced-placement (AP) tests of the College Board or the College-Level Examination Program (CLEP).

The Board of Regents recommends (but does not require) that each student take a course in philosophy/ethics to clarify his or her moral values.

No credit hours earned in introductory foreign language course work can be used to fulfill requirements for the Regents’ Certificate of Excellence. Introductory course work (or its equivalent) and advanced course work must be in the same foreign language.
FRESHMAN COLLEGE

Junior Division is the academic college for freshmen and transfer students who intend to pursue a degree at LSU, have attempted fewer than 60 hours, and have not been admitted to a degree-granting college.

Its five chief functions are:

• to provide academic orientation and registration information that prepares students for their first year at LSU;
• to give students who have not definitely decided on a curriculum an opportunity to make an informed decision during their first year of college work;
• to give students the benefit of professionally trained college counselors;
• to supply the various senior colleges with a select group of students prepared to engage in specialized training and education; and
• to coordinate and implement the University's developmental and advanced-standing programs.

The chief administrative officer of Junior Division is the dean. The Junior Division Advisory Council, composed of representatives of academic departments, advises the dean in administration of the academic affairs and policies of the division. The Junior Division Advisory Board, composed of business and professional people, sponsors the division's development and scholarship funds. The Junior Division Student Government Council provides input to, analysis of, and feedback about programs and services.

COUNSELING AND ACADEMIC ADVISING

Every Junior Division student has access to the full-time counseling staff. Students may obtain assistance from counselors in curriculum selection, career guidance, college study skills, and problems that interfere with academic progress.

Junior Division coordinates departmental academic advising for freshman students. This service provides personal contact between each Junior Division student and a counselor or faculty member from the department in which the student has expressed special interest.

During Invitational Spring Testing, Freshman Advising and Preregistration, and other special registration programs, Junior Division provides orientation sessions, placement and advanced-standing examinations, and academic advising to assist new students in beginning a successful college career. In addition, special briefings are scheduled just prior to registration to inform students about registration procedures.

CURRICULUM FOR THE FRESHMAN YEAR

Freshmen who have decided on a field of study and who want to graduate in the minimum time, should follow the freshman-year curriculum suggested by the college offering their field of study. Occasionally, course substitutions must be made because of a student's initial placement in mathematics and English. Students who have not decided on a field of study are encouraged to participate in academic and career counseling sessions during their first semester by making an appointment with a Junior Division counselor.

Junior Division students may schedule up to 19 hours in any regular semester. Maximum loads for the summer term are 10 hours for the long session and six hours for each short session. A maximum of 12 hours may be earned in any combination of summer sessions. In exceptional cases, permission to receive credit for more than 19 hours taken in one regular semester may be granted by the dean.

AMERICAN COLLEGE TEST (ACT) • SCHOLASTIC APTITUDE TEST (SAT)

Students planning to enter the University must take the American College Testing Program examination (ACT) or the Scholastic Aptitude Test (SAT) prior to registration. Results of the tests should be sent to LSU. Scores on the ACT/SAT are used to place the student in courses at the most appropriate level and to determine eligibility for advanced-placement credit. ACT/SAT scores are also valuable in helping the student select educational objectives.

ACT and SAT are offered several times a year on a regular schedule at school and college centers throughout the U.S. and Canada and in some foreign countries. Information about registration for the test may be obtained from the Measurement & Evaluation Center, 51 Himes Hall, (504) 388-1145; any high school guidance counselor; or the Registration Department, American College Testing Program (ACT), P.O. Box 414, Iowa City, Iowa 52240; Scholastic Aptitude Test (SAT), Educational Testing Service (ETS), Princeton, N.J., 08541-0001.

CORRESPONDENCE STUDY

Junior Division students may enroll in correspondence courses with the approval of the dean of the college. For degree requirement guidelines, students must consult the correspondence study section of this catalog under the senior college in which they expect to enroll. Students may enroll in correspondence study at any time. However, all students will be governed by the correspondence study policy that provides for a maximum of three lessons per week.

Deadline for Completion of Correspondence Courses

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

Students placed on scholastic drop while a correspondence course is in progress will be allowed to complete the course for degree credit. During their period of ineligibility to enroll, students may 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 the Division of 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, an LSU student must obtain approval from the college dean.

**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 Junior Division.

**Maximum Length of Enrollment**

The maximum length of enrollment in a correspondence study course is the same as that listed in the Independent Study Bulletin published by the Office of Independent Study.

**Maximum Number of Credit Hours Applicable Toward a Degree**

Students are expected to abide by any special restrictions of the college concerning the maximum number of hours that may be applied toward a degree.

**HONORS PROGRAM**

Entering freshmen who qualify on the basis of their ACT/SAT scores are invited to apply for admission to the Honors College. Students who do not qualify upon entering LSU, but who do exceptionally well in their first semester, may apply for admission for the second semester.

The core courses of the freshman honors curriculum are Honors 1001/1003, or 1101/1103, and 2002/2004. The team-taught interdisciplinary courses investigate the historical, conceptual, and cultural roots of western civilization. Completion of these courses may satisfy the English, social science, and/or liberal arts requirement for the freshman year in most cases.

For further information on this program see the “Honors College” section in this catalog.

**ADVANCED-STANDING EXAMINATIONS**

Students of superior ability and preparation and students who have already gained a fundamental knowledge of subjects offered at the University may earn degree credit through advanced-standing examinations in specific courses. Advanced-standing examinations in mathematics, calculus, foreign languages, physics, and chemistry are offered during the Spring Testing and Freshman Advising Programs for entering freshmen. Scores earned on the American College Test (ACT) or the Scholastic Aptitude Test (SAT) are used as a basis for allowing credit in freshman English.

Advanced-standing credit will be granted in appropriate subjects to freshmen who earn a grade of 3, 4, or 5 on Advanced Placement (AP) Examinations of the College Board. Policies governing acceptance of credit and required scores for subject examinations are established by the appropriate LSU academic departments. Information on credit earned, through AP, SAT, or CLEP is available from the Office of Undergraduate Admissions. Further information concerning regulations that apply to these examinations is given in the "Undergraduate Admissions" section of this catalog.

**LEARNING ASSISTANCE CENTER**

The Learning Assistance Center (LAC), located in B31 Coates Hall, offers a wide variety of services to assist students in maximizing their learning potential. The LAC's programs are designed to meet the needs of all LSU students—freshmen through graduate levels.

Learning skills workshops and seminars on such topics as taking notes, managing time, memory, concentration, taking tests, and managing stress are also offered. Specialized workshops and presentations are conducted in various subject areas such as chemistry, mathematics, and biology. The center houses audio and video tapes, computer-assisted instruction, printed material, and resource books to assist independent academic learning.

Many campus tutoring programs are coordinated by the center. An open-access computer lab is available for student use.

**STUDENT SUPPORT SERVICES PROGRAM**

Student Support Services is a federally supported program designed to provide academic services for 253 students who meet program guidelines. The goal of the program is to increase student retention and graduation rates. To qualify, the student must have an academic need and (1) be a first-generation college student, (2) meet limited financial means criteria, or (3) have a disability. Students must have potential for success, but need additional services as they begin, continue, or resume their college education. The Student Support Services Program includes a study skills class (JD 0006), reading enhancement (JD 0009), tutoring and peer counseling, academic advising, career information, counseling, and referrals to other agencies and resources to resolve problems related to academic success. Further information may be obtained from the Student Support Services Office, 136 Allen Hall.

**RONALD E. MCNAIR PROGRAM**

The LSU/Junior Division Ronald E. McNair Program’s primary purpose is to increase the graduate enrollment of students who are first generation, low income, disabled, and minority—students who are in majors in which women have been traditionally underrepresented.

This program is designed to provide 20 juniors and seniors with information that will enhance their chances of entry into graduate school. Information will be presented through seminars, faculty and staff mentoring, informal social, research/scholarly activities, workshops, and a two-hour class designed to prepare students academically for graduate school. Scholarship information, academic and personal counseling, tutoring, and assistance will be provided in securing admission to graduate study.

**SCHOLASTIC REQUIREMENTS**

The following provisions apply to all students, except those enrolled as extension, PASS, or "visiting" students. For details regarding the use of correspondence study grades to determine scholastic standing, see "Undergraduate Admission." Courses taken at Southern University through the LSU-SU Cooperative Program are recorded as transfer credit.

**Definitions**

- **Grade-Point Average** • The 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 grade-point average of 2.652.
- **General Grade-Point Average** • The overall grade-point average is calculated on work attempted at any college or university. **LSU System Grade-Point Average** • The LSU System grade-point average is calculated on all work attempted at LSU and at any other institution in the LSU System.
- **Good Academic Standing** • A student whose GPA on LSU work and on all work attempted is 2.00 ("C") or higher is considered to be in good academic standing.

**Academic Warning**

At the end of the fall or spring semester or summer term, students will be placed on academic warning status if their grade-point average is one to nine quality points below a 2.00 on all work attempted or on all work attempted in the LSU System. A notation to that effect will be entered on their transcripts.

**Scholastic Probation**

At the end of the fall or spring semester, students will be placed on scholastic probation if their grade-point average is 10 or more quality points below a 2.00 on all work attempted or on all work attempted in the LSU System. Students may also be placed on
probation on the basis of unsatisfactory progress toward meeting the specific requirements of their academic program. Such students will be informed in writing of the conditions required to continue in their academic program.

Students will remain on scholastic probation until they have an overall average of 2.00 or higher on all college work attempted and on all work attempted in the LSU System.

Students who have been removed from scholastic probation will be placed on probation again at the end of any fall or spring semester in which their LSU or overall average is less than 2.00.

**Scholastic Drop**

Students on probation will be dropped from the University at the end of any fall or spring semester if their average is less than 2.00 either on all work attempted or on all work attempted in the LSU System that semester.

Students dropped for scholastic deficiency may enroll in the summer term at LSU. If their quality-point deficit is totally removed during the summer term, they may petition their dean to enroll for the fall semester.

Students on scholastic drop status may register on a noncredit basis for correspondence courses. They may not apply toward LSU degree requirements credit earned at any institution during the period of their ineligibility to enroll at LSU.

**The Summer Term/Intersession**

Students cannot be placed on probation or dropped from the University on the basis of work taken during the summer term or intersession. They can, however, be placed on academic warning status.

Work taken during the summer term can result in students being removed from academic warning status, scholastic probation, or scholastic drop status.

**Reentry after Scholastic Drop**

Students dropped for the first time for academic reasons can be considered for readmission when they have been out of the University (all LSU System campuses) for one regular semester.

Students dropped the second or subsequent time for academic reasons must remain out of the University (all LSU System campuses) for one calendar year.

In either instance, readmission may be delayed or denied at the discretion of the dean of the college in which they desire to enroll.

Students entering the University after scholastic drop will be admitted on scholastic probation. Reinstatement after a scholastic drop (see “Appeal of Academic Ineligibility to Enroll”) will not remove the drop notation from the transcript.

**ATTENDANCE POLICIES**

Students are expected to attend all classes regularly and punctually. The Office of the Dean of Junior Division gives excuses only in two situations:

- as directed by the Office of Academic Affairs (such excuses are usually limited to groups participating in University-sponsored activities off campus); or
- when convincing evidence is presented to Junior Division that students must miss midsemester or final examinations due to circumstances beyond their control. In such cases students may take special examinations with approval of the dean of Junior Division.

All other absences are subject to the attendance policies and procedures of instructors. Students should understand that these policies vary among instructors and that they must comply with the attendance requirements of each instructor.

If circumstances cause unavoidable, extended periods of absence, students should notify the Office of the Dean of Junior Division, which will send an explanation to instructors concerned. Upon returning to the classroom, students should clear all absences with each instructor.
The College of Agriculture at LSU is an integral part of the land grant college system. The college includes 11 departments and three schools with more than 200 faculty members. Of these, 164 are jointly employed by the LSU Agricultural Center. The college is closely connected in all phases of its work with the U.S. Department of Agriculture and many other federal and state agencies concerned with agriculture, forestry, conservation, natural resources, home economics, vocational education, industrial education, rural and community development, and related fields.

The programs of the college are organized and conducted primarily to serve the people of Louisiana, but are also intended to prepare students for service throughout the nation and the world. In addition to traditional course work, related directly to the production, processing, and marketing of plants and animals and their products, the college provides training (coordinated with research and extension) in many other areas particularly relevant to current problems and opportunities. These include such areas as marine and seafood, wildlife, development of natural resources, rural and community development, agricultural education, natural resource use, family and consumer sciences, and water economics, and problems of developing countries.

Teaching divisions of the college, with their curricula, and the degrees that may be earned are shown in the chart on the following page.

OBJECTIVES

One objective of the college is to give students a well-balanced education in the basic and agricultural sciences and related fields. An additional objective is to provide cultural experiences necessary for the full development of the individual and to graduate educationally well-rounded, mature, and capable men and women, who are prepared to assume the responsibilities of citizenship and to contribute meaningfully to the well-being of society through their chosen fields of endeavor.

COORDINATION WITH THE LSU AGRICULTURAL CENTER

The College of Agriculture offers a unique educational opportunity through a coordinated program of mutual cooperation with the LSU Agricultural Center that includes the Louisiana Agricultural Experiment Station and the Louisiana Cooperative Extension Service. The experiment station has research programs in Baton Rouge and at branch stations throughout Louisiana. The extension service disseminates results of that research throughout Louisiana through specialists in Baton Rouge and county agents and home economists in every parish.

Cooperation between the college and the center gives the college a strong instructional program, providing students with up-to-date knowledge to help solve complex problems in their chosen fields. Since most faculty members of the college also hold research or extension appointments as faculty of the center, students are exposed to new areas of knowledge as faculty members bring the results of their work directly into classroom discussion. Similarly, students in the college benefit from the close relationship with the extension service. As extension specialists and researchers apply new knowledge to real-life problems, there is feedback through the teacher-researcher directly to the classroom. Students, thus, gain an appreciation of the relationship between academic solutions and real-world problems and also learn how to test new knowledge by practical application.

Students in the college also profit from the experience and activities of faculty on the center's staff who participate in research, extension, and teaching assignments in many other countries throughout the world and bring these experiences back to the classroom. The center is particularly active in Central America, Jamaica, Southeast Asia, West Africa, and countries of the former Soviet Union.

FACILITIES

Facilities for instructional purposes include over 4,500 acres of farm and timber land and buildings for the care and study of crops, livestock and poultry, and wildlife and forests.

Livestock include herds of Hereford, Polled Hereford, Angus, and Brahman cattle and other crosses. Breeds of sheep include Louisiana-native and Suffolk. Herds of swine include Hampshire, Duroc, and Yorkshire breeds and their crosses. A number of quarter horses are maintained for research and instruction. The dairy herd is composed of the Holstein breed. The Dairy Improvement Center cooperates with Louisiana Animal Breeder Cooperative (LABC) in the operation of a commercial artificial breeding program. Commercial strains of poultry are used in instruction and research.

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 serve as instructional aids through a constantly changing complex of hundreds of research projects throughout the state that are coordinated with the teaching program. Similarly, research, teaching, and extension activities in foreign countries make those experiences and areas part of the facilities and knowledge available for classroom instruction on campus.
## 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>Undergraduate</td>
</tr>
<tr>
<td></td>
<td>Food &amp; Resource Economics</td>
<td></td>
</tr>
<tr>
<td>Department of Agronomy</td>
<td>Environmental Management Systems</td>
<td>Undergraduate</td>
</tr>
<tr>
<td></td>
<td>Food Systems</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plant &amp; Soil Systems</td>
<td></td>
</tr>
<tr>
<td>Department of Animal Science</td>
<td>Animal, Dairy, and Poultry Sciences (Preveterinary Medicine*)</td>
<td>Bachelor of Science in Animal Science</td>
</tr>
<tr>
<td>Department of Biological &amp; Agricultural Engineering</td>
<td>(See College of Engineering)</td>
<td>Bachelor of Science in Animal Science</td>
</tr>
<tr>
<td>Department of Dairy Science</td>
<td>Animal, Dairy, and Poultry Sciences (Preveterinary Medicine*)</td>
<td>Bachelor of Science in Animal Science</td>
</tr>
<tr>
<td>Department of Entomology</td>
<td>(See “Graduate School • Professional Programs” section.)</td>
<td>Bachelor of Science in Animal Science</td>
</tr>
<tr>
<td>Department of Experimental Statistics</td>
<td>(See “Graduate School • Professional Programs” section.)</td>
<td>Bachelor of Science in Animal Science</td>
</tr>
<tr>
<td>Department of Food Science</td>
<td>Food Systems</td>
<td>Bachelor of Science in Animal Science</td>
</tr>
<tr>
<td>Department of Horticulture</td>
<td>Plant &amp; Soil Systems</td>
<td>Bachelor of Science in Animal Science</td>
</tr>
<tr>
<td></td>
<td>Food Systems</td>
<td>Bachelor of Science in Animal Science</td>
</tr>
<tr>
<td>Department of Plant Pathology &amp; Crop Physiology</td>
<td>(See “Graduate School • Professional Programs” section.)</td>
<td>Bachelor of Science in Animal Science</td>
</tr>
<tr>
<td>Department of Poultry Science</td>
<td>Animal, Dairy, and Poultry Sciences (Preveterinary Medicine*)</td>
<td>Bachelor of Science in Animal Science</td>
</tr>
<tr>
<td>School of Human Ecology</td>
<td>Dietetics</td>
<td>Bachelor of Science in Animal Science</td>
</tr>
<tr>
<td></td>
<td>Family, Child, and Consumer Sciences</td>
<td>Bachelor of Science in Animal Science</td>
</tr>
<tr>
<td></td>
<td>Textiles, Apparel, &amp; Merchandising</td>
<td>Bachelor of Science in Animal Science</td>
</tr>
<tr>
<td>School of Vocational Education</td>
<td>Vocational Education</td>
<td>Bachelor of Science in Animal Science</td>
</tr>
<tr>
<td>School of Forestry, Wildlife, &amp; Fisheries</td>
<td>Forestry (Forest Management)</td>
<td>Bachelor of Science in Animal Science</td>
</tr>
<tr>
<td></td>
<td>Wildlife and Fisheries</td>
<td>Bachelor of Science in Animal Science</td>
</tr>
</tbody>
</table>

*Preveterinary medicine is not a degree-granting curriculum.

### ADMISSION REQUIREMENTS

Within the framework of University regulations, students may be admitted to the college according to the following policies:

- **Students admitted from Junior Division** must have completed a minimum of 24 semester hours with a 2.00 average on all work taken and have earned a grade of "C" or better in ENGL 1002 and MATH 1020/1021.
- **Students admitted from other divisions** of the University are expected to meet the same requirements as those admitted from Junior Division.
- **Transfer students** from accredited colleges and universities who have met the general entrance requirements of the University and who have pursued college courses equivalent to those offered in Junior Division may be admitted to the college on the same conditions as those governing the entrance of students from Junior Division. Transfer credits acceptable for admission purposes 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. Transfer students applying for credit in any department or school within the college may be required to take a comprehensive examination before credit is allowed.
- 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 these additional scholastic requirements:

- Students who fail to earn a 2.00 average in each of two consecutive semesters (or one semester and a summer term) and whose LSU or overall 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.

READMISSION TO THE COLLEGE

Students who have completed terms of scholastic suspension from the University may apply for readmission through the Office of Undergraduate Admissions. They may be readmitted only with the approval of the head of the appropriate department/school and the dean of the College of Agriculture. Readmission is not guaranteed.

LSU COURSE EQUIVALENCIES FOR THE LCPAC CORE

<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 general education requirements in this catalog.</td>
</tr>
<tr>
<td>Biology</td>
<td>8</td>
<td>Biology 1201, 1208; Plant Biology 1202 or Zoology 1202, 1209</td>
</tr>
<tr>
<td>Chemistry</td>
<td>8</td>
<td>Chemistry 1201, 1202, 1212</td>
</tr>
<tr>
<td>Communication</td>
<td>3</td>
<td>Speech Communication 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 1000/1001, 1002*</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 general education requirements in this catalog.</td>
</tr>
<tr>
<td>Mathematics</td>
<td>6</td>
<td>Mathematics 1020/1021;* 1022 or 1431</td>
</tr>
<tr>
<td>Social Sciences Electives</td>
<td>3</td>
<td>See general education requirements in this catalog.</td>
</tr>
</tbody>
</table>

TOTAL HOURS 60

(Note: A grade of "C" or higher is required in ENGL 1002 and MATH 1020/1021 to receive an agricultural degree from LSU.)

DEGREE REQUIREMENTS OF THE COLLEGE

The baccalaureate degree is conferred on students who fulfill the following degree 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.
- The last 30 semester hours presented for the degree must be taken in residence in the College of Agriculture. Courses taken through correspondence 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.

MINOR FIELD REQUIREMENTS (OPTIONAL)

Students in the College of Agriculture are not required to pursue a minor. They may choose to do so by following the guidelines outlined below:

- A minor for students in the College of Agriculture shall be defined as the "Student's Field of Secondary Academic Emphasis." A minor shall consist of a mini-
imum of 18 hours of related course work designed to provide breadth and depth in a student’s undergraduate program.
• At least nine hours must be taken at the 3000 and/or 4000 level on this campus.
• A minimum gpa of 2.00 is required in the minor field on all work taken in the LSU System and on all work taken.
• Minors inside the College of Agriculture must be initiated by the department or school administering the majority of the courses constituting the minor. When submitting a minor for approval, the department or school should specify whether their students may elect that minor. All minors must be approved by the college committee on courses and curricula.
• Minors outside the college can be established provided that the minor conforms to the guidelines noted above for minors in the College of Agriculture and meets the guidelines established by the department/college concerned.

The degree program of a student outside the College of Business Administration may not consist of more than 27 hours of degree credit earned in courses offered by the College of Business Administration.

> Agricultural Business

To graduate with a minor in agricultural business, students in the College of Agriculture must complete:
• AGEC 1003, 3415, 4403; AGEC 3203 or 4201; and two additional semester hours of credit chosen from AGEC 4211, 4231, 4242, 4251, 4262; EXST 2201.
• at least six hours of approved electives chosen from AGEC 2003, 3303, 3402, 3803, 4413, 4423, 4433, 4443, 4503, 4603; ACCT 2000, 2001, 2021, 2101; ECON 2030, 2035, 3310, 4120, 4440, 4520, 4540, 4550, 4720; FIN 3200, 3201, 3351, 3440, 3636, 3715; MGT 3200, 3500, 3511, 3520, 4523, 4420, 4620; MKT 3401, 3424, 3441, 4423; and MATH 1431. Students interested in pursuing the M.B.A. degree should elect ACCT 2001 and MATH 1431 and 1433.\footnote{This minor is open to College of Agriculture students only.}

The minor in agricultural business is not available to students majoring in agricultural business or food and resource economics.

> Agronomy

To graduate with a minor in agronomy, students in this college must complete 18 hours consisting of AGRO 2051, 3000, and two courses chosen from AGRO 3011, 3012, 3013; and nine additional hours chosen from AGRO 3040, 4005, 4052, 4055, 4056, 4058, 4064, 4078, 4080, 4086, 4087, 4091, 4092.

> 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:
• Two courses selected from EXST 2000, 2095, 2201; and
• EXST 3001, 4001, and 4002.

> Aquaculture

To graduate with a minor in aquaculture (18-19 hrs.), students must complete designated courses in the following categories: fisheries—minimum of 11 hrs. from FISH 2001, 4021, 4022; FISH 4039 or AGEC 4201 and AGEC 4262; plant taxonomy and ecology—select one from FISH 4020, OCS 4508, PBIO 4052; animal taxonomy—FISH 4145.

> Business Administration

To graduate with a minor in business administration (24-25 hrs.), students in the College of Agriculture must complete QBA 2000 or EXST 2201; ACCT 2000 or 2001, 2101; ECON 2030, 2035, FIN 3715; MGT 3200; and MKT 3401.\footnote{Students interested in pursuing the M.B.A. degree should elect ACCT 2001 and MATH 1431 and 1433. This minor is open to College of Agriculture students only.}

> 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 eleven hours from the following: ENTM 2050, 4001, 4002, 4003, 4006, 4011, 4012, 4014, 4016, 4017, and 4018.

> Fisheries

To graduate with a minor in fisheries (20-21 hrs.), students must complete the following courses: fisheries—complete FISH 4021, 4040, and 4039; plant taxonomy and ecology—select one from FISH 4020, OCS 4508, PBIO 4052; animal taxonomy—FISH 4145.

> Fish and Wildlife Conservation

To graduate with a minor in fish and wildlife conservation (19-23 hrs.), students must complete: fish and wildlife conservation—both FISH 2001 and WILD 2031; any two from FISH 4021, 4022, 4039, 4040, WILD 4011, 4013, 4035, 4050; environmental studies—ENV 1000 and any one from ENVS 2144, 4010, 4149; plant and animal biology—any one selected from PBIO 2046, 4041; FISH/WILD 4020; FISH 4145; FOR 2061; ZOOL 4141, 4142, 4146.

> Food Systems

To graduate with a minor in food systems, students must complete 20-22 hours:
• (1) ANSC 1011 or DARY 1048 or FDSC 1049 or PLSC 1049; (2) FDSC 4000; (3) a food processing course selected from ANSC 3053; DARY 4020; FDSC 4075, 4086; HORT 4051, 4096; or PLSC 4004; (4) an additional 12 semester hours from ANSC 3033, 3053, 4094; DARY 2075, 2085, 4020, 4040, 4081; FDSC 4016, 4050, 4060, 4070, 4086, 4162; HORT 4051, 4096; PLSC 4004. Students must declare the minor area with the academic counselor in the College of Agriculture for the minor to appear on the student’s official transcript. Upon completion of the minor area, the student must have a minimum gpa of 2.00 in the minor field on all work taken in the LSU System and on all work taken. A total of nine semester hours in the minor must be at the 4000 level. This minor is not available to students majoring in food systems.

> Forestry

To graduate with a minor in forestry (18 hrs.), students must complete the following: forest biology—FOR 1001, 2001, 2061; silviculture—FOR 3001; forestry electives—select six hours from FOR 2021, 2030, 2032, 2034, 2035, 2039, 4039, 4040, 4064; ENTM/PHIL 4018. If students have the necessary prerequisites, the following may be taken: FOR 3002, 3004, 4036, 4038.

> Horticulture

To graduate with a minor in horticulture, students in the College of Agriculture must complete HORT 2050, 2061, 2076, and at least three of the following courses:
• PBIO 3000, 3010, 4021, 4051, 4071, 4083, 4085, 4086, 4087, and/or 4096. The minor in horticulture is not available to students majoring in plant and soil systems.

> Rural Sociology

To graduate with a minor in rural sociology, students in the College of Agriculture 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.

> Textiles, Apparel, & Merchandising

To graduate with a minor in textiles, apparel, and merchandising, students in the College of Agriculture must complete 10 hours consisting of HUEC 2040, 2041, 2045, 3034; and 9 additional hours chosen from HUEC 2032, 2036, 2038, 3031, 3045, 4031, 4032, 4041, 4042, and 4043. Students must achieve a minimum of "C" in every course taken in the minor field. This minor is not available to students majoring in textiles, apparel, and merchandising.
Vocational Education

To graduate with a minor in vocational education, students in the College of Agriculture must complete 18 sem. hrs.: EXED 4011; INED 3055, 3062; VED 2001, 3200, 4301; 5 hrs. from VED 4504, 4025, 4704, 4705; HEED 4004; 3 sem. hrs. chosen from any course offered by the School of Vocational Education.

Wildlife

To graduate with a minor in wildlife, students in the College of Agriculture must complete the following: (1) Wildlife—11 semester hours that must include WILD 4013, 4035, plus 6 hours selected from WILD 2031, 4301, 4050; (2) Plant Taxonomy—3 semester hours selected from FOR 2001, PBID 2055, 4020, 4041; (3) Animal Taxonomy—4 semester hours selected from ZOOL 4141, 4142, 4145, 4146.

This minor is not available to students majoring in the wildlife area of concentration in the wildlife and fisheries curriculum.

CORRESPONDENCE AND EXTENSION CREDITS

Up to one-fourth of the number of hours required for the baccalaureate degree may be taken through the Division of Continuing Education, either by correspondence study or extension classes or both. Before scheduling such work, however, students should obtain approval from the dean.

Requirements for a Second Bachelor's Degree

To receive a second bachelor's degree in this college, a student must complete all necessary course requirements for the second degree program. A minimum of 30 semester hours beyond the hours earned for the first degree are required to establish residency for the second degree.

PHI KAPPA PHI

Phi Kappa Phi, a national scholastic honor society founded in 1897, now contains 243 chapters nationwide. It is one of the most prestigious scholastic honor societies in the U.S. The LSU chapter was founded in 1930 as the 43rd chapter in the nation. At the present time, the national office is located on this campus in the French House.

The primary objectives of Phi Kappa Phi are to promote the pursuit of excellence in higher education and to recognize outstanding achievement by students and faculty through election to membership and through various awards and fellowships. Phi Kappa Phi is unique because it recognizes superior scholarship in all academic fields, rather than restricting membership to a limited field. Undergraduates and graduate students who rank in the top 10 percent of their graduating 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.

GRADUATE PROGRAMS

Through the Graduate School, the college offers master's and doctoral degrees in the fields of agricultural economics, agro-nomy, animal science, dairy science, entomology, food science, forestry, horticulture, plant pathology, and vocational education. A doctoral degree in wildlife and fisheries science is also offered. In addition, master's degrees are offered in applied statistics, fisheries, human ecology, poultry science, and wildlife. For further details, consult the Graduate Bulletin.

AGRICULTURAL STUDENTS ASSOCIATION

The Agricultural Students Association brings the various agricultural organizations together for cooperative enterprises. Membership includes student officers of the college and elected representatives from all agricultural organizations. The association serves as a student advisory group to the dean of the college.

DEPARTMENTS 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 all 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

HEAD • Guedry, Professor
OFFICE • 101 Agricultural Administration Building
TELEPHONE • (504) 388-3282
FAX • (504) 388-2716
PROFESSORS • Guedry, Paxton, Schupp, Vandever
ASSOCIATE PROFESSORS • Dellenbarger, Gauthier, Henning, Hinson, Luzär, Salassi, Zapata
ASSISTANT PROFESSORS • Harrison, Hughes, Kazmierczak, Kennedy
INSTRUCTOR • Wilkerson

CURRICULA
• Agricultural Business
• Food and Resource Economics

Two curricula—agricultural business and food and resource economics—are offered by the Department of Agricultural Economics & Agribusiness. The agricultural business curriculum provides training for a wide variety of careers in the agribusiness industry, while the curriculum in food and resource economics prepares students for careers in the food and fiber sectors of national and international economies. Both programs integrate the disciplines of business and agricultural business, economics and food and resource economics, and quantitative methods and agricultural sciences. Course offerings support both curricula and 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 with 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.

Study in food and resource economics emphasizes the application of economic principles to the solution of problems in the food and fiber sector of the economy. Concentrated study in economics and quantitative methods provides the conceptual basis for analyzing problems related to the food and fiber sector, rural development, use of natural resources, and related public policy issues. The program prepares students for careers in governmental service, upper-level management, and advanced graduate study leading to the master's and doctoral degrees.

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. • 134

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.
Animal Science 1011 or Dairy Science 1048 or Poultry Science 1049 3
Agronomy 1001 3
Chemistry 1001, 1002 6
English 1000/1001, 1002 6
Mathematics 1020/1021, 1431 6
Biology 1001, 1002 6
Agricultural Economics 1003 3
Electives or ROTC 3

Sophomore Year

SEM. HRS.
Agricultural Economics 2003 3
Agronomy 2051 4
English 2002 3
Economics 2030, 2031, 2032 9
Economics 2030, 2035 6
Speech Communication 2600 3
General education humanities course 3
Elective or ROTC 3

Junior Year

SEM. HRS.
Accounting 2001; and 2201 or 2101 6
Agricultural Economics 3203, 3402, 3413, 3503 11
Agronomy 3000 or Horticulture 2050 3-4
Finance 3200 3

Senior Year
### CURRICULUM IN FOOD AND RESOURCE ECONOMICS

**TOTAL SEM. HRS. • 135**

**General Education Course Requirements**
- Arts and humanities—select from approved general education courses listed in a separate section of this catalog.

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Studies 1000</td>
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<tr>
<td>General education humanities course</td>
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<tr>
<td>General education natural sciences</td>
<td>6</td>
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<tr>
<td>General education natural sciences</td>
<td>6</td>
</tr>
<tr>
<td>English 1000/1001, 1002</td>
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<tr>
<td>Mathematics 1431, 1435</td>
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<td>General education arts course</td>
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<td>Elective or ROTC</td>
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#### SOPHOMORE YEAR

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<tr>
<td>Accounting 2001</td>
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<td>Economics 2010, 2020</td>
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<tr>
<td>Geography 2062</td>
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</tr>
<tr>
<td>Sociology 2351</td>
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<tr>
<td>Speech Communication 2060</td>
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<tr>
<td>Experimental Statistics 2000, 2201</td>
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<tr>
<td>General education humanities course</td>
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<td>Elective or ROTC</td>
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#### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Agricultural Economics 3203, 3313,</td>
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<tr>
<td>4503, 4603</td>
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<tr>
<td>Economics 2035, 3720</td>
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<tr>
<td>English 3002</td>
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<tr>
<td>Political Science 2070</td>
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#### SENIOR YEAR

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<thead>
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<th>Course</th>
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<tbody>
<tr>
<td>Agricultural Economics 4273, 4503,</td>
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<tr>
<td>4603</td>
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<tr>
<td>Economics 4110</td>
<td>3</td>
</tr>
<tr>
<td>History 4076</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy 2018</td>
<td>3</td>
</tr>
<tr>
<td>Agricultural economics electives</td>
<td>9</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
</tbody>
</table>

### DEPARTMENT OF AGRONOMY

**HEAD • Dunigan, Professor**  
**OFFICE • 104 M. B. Sturgis Hall**  
**TELEPHONE • (504) 388-2110**  
**FAX • (504) 388-1403**

**PROFESSORS • Board, Caffey, Dunigan, Hudnall, Kang, Martin, Riaud, Robinson, Selim, Tipton**  
**ASSOCIATE PROFESSORS • Breitenbeck, Feagley, Harrison, Harville, Kennedy, Kover, Milligan, Walthall**  
**ASSISTANT PROFESSORS • Bell, Myers, Oard, Venuto**  
**ADJUNCT FACULTY • Delaune, Lindau, Patrick**

**CURRICULUM COORDINATOR • Feagley, Associate Professor**  
**OFFICE • 311 M. B. Sturgis Hall**  
**TELEPHONE • (504) 388-2110**

**CURRICULUM**
- Plant & Soil Systems (Agromic Crops Area; Soil Science Area)
- Food Systems (Horticultural and Agronomic Products Area)

### PLANT AND SOIL SYSTEMS

Consolidation of curricula in agronomy and horticulture 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 five areas: agromic crops; horticultural science; ornamental, olliculture, and pomology; soil science; and turfgrass management. Each area is further individualized by the addition of approved and free electives.

Students interested in pursuing a minor in agronomy 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.)

The Department of Agronomy offers areas of concentration in agronomic crops and soil science, preparing students for professional careers in government, industry, or graduate study in areas related to crops, soils, and/or water.

In addition to the curriculum outlined for a plant and soil systems major, students selecting the agronomic crops area of concentration take courses in agronomy, genetics, biochemistry, economics, entomology, experimental statistics, statistics, agriculture, microphysiology, physics, plant biology, and plant health, as well as several hours of free electives.

In the soil science concentration students also take courses in agronomy, genetics, biochemistry, chemistry, geology, microphysics, and physics, as well as 14 hours of free electives.

Students can take advantage of the opportunity to work with one of the agronomy faculty in his/her research area. This may be in the form of a special problems course or a student-worker job.

### CURRICULUM IN PLANT AND SOIL SYSTEMS

**TOTAL SEM. HRS. • 135**

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Biology 1201, 1208</td>
<td>4</td>
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<tr>
<td>Plant Biology 1202</td>
<td>4</td>
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<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
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<tr>
<td>English 1000/1001, 1002</td>
<td>6</td>
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<td>Mathematics 1020/1021 and 1022</td>
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<td>General education arts course</td>
<td>3</td>
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<tr>
<td>General education social sciences</td>
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#### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Agronomy 2051</td>
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<tr>
<td>Chemistry 2060 or 2261</td>
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<tr>
<td>Experimental Statistics 2000</td>
<td>3</td>
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<tr>
<td>Speech Communication 2060</td>
<td>3</td>
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<tr>
<td>General education humanities</td>
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<tr>
<td>Area of concentration courses</td>
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#### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Plant Biology/Plant Health 3060</td>
<td>4</td>
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<tr>
<td>English 2002 or 3002</td>
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<td>Area of concentration courses</td>
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<td>Electives or ROTC</td>
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#### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Agronomy 4052</td>
<td>4</td>
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<tr>
<td>Area of concentration courses</td>
<td>27</td>
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<tr>
<td>Electives or ROTC</td>
<td>3</td>
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</tbody>
</table>

### Areas of Concentration

#### Agromic Crops Area (65-66 hrs.)

- Agriculture 2072; Agronomy 3000, 3011, 3012, 3013, (select two); Agronomy 4064, 4080, 4089; Biochemistry 2083 or 4087; Plant Biology 4024; Economics 2030; Entomology 2050; Experimental Statistics 4001; Geology 1001, 1601; Microbiology 1001, 2051; Physics 2001, 2108; Plant Health 4000, 4070; electives.

- Soil Science Area (65-66 hrs.)

- Agriculture 2072; Agronomy 3011, 3012, 3013 (select two); Agronomy 3000, 4055, 4056, 4058, 4080, 4999; Biochemistry 2083 or 4087; Chemistry 2001, 2002; Economics 2030; Experimental Statistics 4001; Geology 1001, 1601; Microbiology 1001 or 2051; Physics 2001, 2108; electives.

(A list of approved electives is available from the department.)

### ENVIRONMENTAL MANAGEMENT SYSTEMS

**COORDINATOR • Feagley, Associate Professor**  
**OFFICE • 311 M. B. Sturgis Hall**  
**TELEPHONE • (504) 388-1347**
The curriculum in environmental management systems is designed for students interested in manipulating the environment for more efficient management of land and soils, water, and air quality.

As earth's population increases, demand will escalate for clean food and water and proper land use. These activities, in combination with heightened energy requirements, will increase stress on our natural resources. Concurrently, increased public awareness of environmental pollution will spur the development of safe and effective waste management and pollution control. Students who complete this curriculum will be prepared to meet these challenges. Through proper selection of the approved electives, students can specialize in one of three areas of Environmental Management Systems—land and soils, water, or air.

Students in Environmental Management Systems will study the effects of human activity on earth's ecosystems. A key component of this curriculum is the environmental impact on animal and plant life of toxic residues, surface and ground water contamination, and pollutants. Technology and policy designed to regulate and manage environmental problems are also studied.

**CURRICULUM IN ENVIRONMENTAL MANAGEMENT SYSTEMS**

**TOTAL SEM. HRS. • 134**

**Approved Electives** • A list of approved electives is available from the Department of Agronomy. Students may select no more than 1200 hrs. of approved electives below the 3000 level.

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Biology 1201, 1208 and Plant</td>
<td>8</td>
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<tr>
<td>Biology 1202</td>
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<td>Chemistry 1201, 1202, 1212</td>
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<td>English 1000/1001, 1002</td>
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<td>Environmental Studies 1000</td>
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<td>Environmental Studies 1051</td>
<td>3</td>
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<td>Mathematics 1020/1021, 1022</td>
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<tr>
<td>General education arts course</td>
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<tr>
<td>Elective or ROTC</td>
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<td><strong>Sophomore Year</strong></td>
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**SOPHOMORE YEAR**

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>Agronomy</td>
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<td>Chemistry 2060 and Biochemistry, 2083, 2084, 2261, 2262, 2364</td>
<td>7-8</td>
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<td>Economics 2030</td>
<td>3</td>
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<tr>
<td>Experimental Statistics 2000</td>
<td>3</td>
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<td>Microbiology 2051</td>
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<td>Mathematics 1550</td>
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<td>Physics 2001</td>
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<td>Electives or ROTC</td>
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<tr>
<td><strong>Junior Year</strong></td>
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**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Chemistry 2001</td>
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<td>English 2002 or 3002</td>
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<td>Plant Health 2050</td>
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<td><strong>Senior Year</strong></td>
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**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Environmental Studies 4101, 4500</td>
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<tr>
<td>Microbiology course above 2051</td>
<td>3</td>
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<tr>
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<tr>
<td><strong>DEPARTMENT OF ANIMAL SCIENCE</strong></td>
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</tr>
</tbody>
</table>

**HEAD • Humes, Professor**

**OFFICE • 105 Francioni Hall**

**TELEPHONE • (504) 388-3241**

**FAX • (504) 388-3279**

**GORDON D. CAIN ENDOWED CHAIR IN AGRICULTURE • Hansel**

**PROFESSORS • Bidner, Franke, Godke, Hansel, Humes, McMillin, Southern, Thompson, White**

**ASSOCIATE PROFESSORS • Bunting, Fernandez**

**ADJUNCT FACULTY • Chapman, Depew, Dumas, Miller, Ramsey, Stewart, Tempelman**

**CURRICULUM**

- Animal, Dairy, and Poultry Sciences (Animal Science Area, Science and Technology Area, "Three-Plus-One Program")

The Department of Animal Science offers programs in animal science (animal, dairy, and poultry sciences curriculum). Animal science involves all aspects of animal production including genetics, nutrition, physiology, animal evaluation, animal health, livestock marketing and farm management. Meat Science includes meat processing, quality control, packaging, marketing, and distribution of meat products to the consumer.

**ANIMAL, DAIRY, AND POULTRY SCIENCES**

The curriculum in animal, dairy, and poultry sciences consolidates the curricula for the Departments of Animal Science, Dairy Science, and Poultry Science. Students take basic courses during the first two years and then select a concentration area of emphasis 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 talk to the counselor for the minor of their choice. Students need 125 credits to graduate. Those students interested in the Plant Science Program must take BIOL 1201 and 1202; CHEM 2261, 2262, 2364 or CHEM 2600, BCH 2083, 2084; MATH 1020/1021 and 1022; MBIO 2051; PHYS 2001 and 2002; SPCM 1010 or 2060; and ZOOL 1202 and 1205 to meet admission requirements. Students interested in animal and poultry sciences curriculum will also meet career opportunities in various production enterprises, including animal and agricultural businesses, 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. • 134**

*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.

**FRESHMAN YEAR**

<table>
<thead>
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<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Animal Science 1001, Dairy Science 1048, or Poultry Science 1049</td>
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<tr>
<td>Biology 1001, 1002, 1005, or Biology 1201, 1208, Zoology 1202, 1209</td>
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<td>Chemistry 1201, 1202, 1212</td>
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<td>English 1000/1001, 1002</td>
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<tr>
<td>Mathematics 1020/1021, 1022</td>
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<tr>
<td>General education arts course</td>
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<td>Elective or ROTC</td>
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<td><strong>Sophomore Year</strong></td>
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**SOPHOMORE YEAR**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Agriculture 2072 or Zoology 2153</td>
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<tr>
<td>Chemistry 2060 or 2261</td>
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<td>Economics 2030</td>
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<td>Area of concentration courses</td>
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<td><strong>Junior Year</strong></td>
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**Junior Year**

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<tr>
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<tr>
<td>Approved electives*</td>
<td>6-15</td>
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<td>Electives or ROTC*</td>
<td>3-18</td>
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**Senior Year**

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<td>Electives or ROTC*</td>
<td>5-16</td>
</tr>
<tr>
<td><strong>Areas of Concentration</strong></td>
<td><strong>33-34</strong></td>
</tr>
</tbody>
</table>

**Areas of Concentration**

- **Animal Science Area**

**Required Courses (35 hrs.)**—ANSC 2133, 3033, 3053, 4009, 4092, EXST 2000, VETS 2000. Select ANSC 4018, 4045, and DARY 3010 and any two from ANSC 4001, 4081, 4084, 4086, 4088; or select ANSC 4094, FDSC 4000, 4040, 4162, and either FDSC 4005 or 4050. Approved Electives (19 hrs.)—Select any 2000-level or higher courses from an approved list available from the Department of Animal Science.

- **Science and Technology Area**

**Required Courses (32 hrs.)**—Select at least 16 hrs. from courses in ANSC, DARY, or PLSC, and remaining hours from ZOOL 3030, 3394, and BCS 2011 and from ANSC 2000, 4999, MBIO 3000-4999, PHYS 2000-4999, or NS 4000-4999. Approved Electives (21 hrs.)—Select 21 hrs. from the approved electives list avail-
able from the Departments of Animal, Dairy, or Poultry Science.

Three-Plus-One Program

Students entering the School of Veterinary Medicine after completion of the first three years of the animal, dairy, and poultry sciences curriculum (102 hours) may receive the B.S. degree following successful completion of the first year of the professional curriculum in veterinary medicine. (See the School of Veterinary Medicine Bulletin for details of the first year of the professional curriculum.)

Students pursuing this program will be required to establish residence in the College of Agriculture for 30 semester hours prior to entering the School of Veterinary Medicine. They also must make application for the degree through the dean’s office in the College of Agriculture no later than 15 days after classes begin in the semester in which the degree is to be awarded.

DEPARTMENT OF BIOLOGICAL AND AGRICULTURAL ENGINEERING

HEAD • Verma, Professor
OFFICE • 149 Doran Agricultural Engineering Building
TELEPHONE • (504) 388-3153
FAX • (504) 388-3492

PROFESSORS • Bengtsen, Brown, Lawson, Parish, Sistler, Stpe, Verma, Wright
ASSOCIATE PROFESSORS • Edling, Malander, Robbins, Velupillai, Wells
ASSISTANT PROFESSOR • Osborne
ADJUNCT FACULTY • Carter, Fous, Rogers

CURRICULUM • Biological and Agricultural Engineering

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

DEPARTMENT OF DAIRY SCIENCE

HEAD • Jenny, Professor
OFFICE • 111 Dairy Science Building
TELEPHONE • (504) 388-4411
FAX • (504) 388-4008

PROFESSORS • Adkinson, Baham, Chandler, Gough, Jenny, Roussel
ASSOCIATE PROFESSORS • Achacoso, Bunting, McGregor
ASSISTANT PROFESSOR •
ADJUNCT FACULTY • Bordsen, Goodeaux, Hay, Karhallo, Menuez, Nickerson, Philpot

CURRICULUM • Animal, Dairy, and Poultry Sciences (Dairy Production Area, Dairy Foods Technology Area, Science and Technology Area, “Three-Plus-One Program”)

The Department of Dairy Science offers programs in dairy science (curriculum in animal, dairy, and poultry sciences). Dairy production involves all aspects of milk production including dairy cattle nutrition, genetics, reproductive physiology, herd health, and farm management. Dairy foods technology involves all aspects of dairy product manufacture, quality control, packaging, marketing, and distribution of the final product to the consumer.

Some students participate in research activities with various faculty members while others participate in the operation of the dairy farm and dairy plant. These activities offer students an opportunity to gain valuable experience to supplement classroom studies.

ANIMAL, DAIRY, AND POULTRY SCIENCES

The curriculum in animal, dairy, and poultry sciences consolidates the curricula for the Departments of Animal Science, Dairy Science, and Poultry Science. 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 the approved and free electives. See the listing of College of Agriculture minors for details.

Prior to entering the program, students are encouraged to consult a counselor for guidance in scheduling courses. Those students interested in entering the School of Veterinary Medicine must take BIOL 1201 and 1208; CHEM 2251, 2262, 2364 or CHEM 2060, BCH 2083, 2084; MATH 1020/1021 and 1022; MBIO 2051; PHYS 2001 and 2002; SPCM 2010 or 2060; and ZOOL 1202 and 1209 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. • 134

*Ithe 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.

FRESHMAN YEAR

Animal Science 1011, Dairy Science 1048, or Poultry Science 1049

Biology 1001, 1002, 1005, or Biology 1201, 1208, Zoology 1202, 1209

Chemistry 1201, 1202, 1212

English 1001, 1002

Mathematics 1020/1021; 1022 or 1431

General education arts course

Sophomore Year

SEM. HRS.

Agriculture 2072 or Zoology 2153

Chemistry 2060 or 2261

Economics 2030

Environmental Science 2261

Microbiology 2051

Speech Communication 2060

General education humanities courses

General education sciences course

Area of concentration courses

JUNIOR YEAR

SEM. HRS.

Area of concentration courses

Approved electives

Electives or ROTC

Area of concentration courses

Senior Year

SEM. HRS.

Area of concentration courses

Approved electives

Electives or ROTC

Areas of Concentration

Dairy Production Area

Required Courses (22 hrs.)—DARY 2075, 2085, 3010, 4043, 4045, 4051, 4054, 4118.

Approved Electives (21 hrs.)—Select 21 hrs. from the approved electives list available from the Department of Dairy Science.

Dairy Foods Technology Area

Required Courses (22 hrs.)—DARY 2075, 2085, 2093, 4020, 4040, 4051, 4081; AGEC 4201, 4242.

Approved Electives (21 hrs.)—Select 21 hrs. from the approved electives list available from the Department of Dairy Science.

Science and Technology Area

Required courses (32 hrs.)—Select at least 16 hrs. from courses in ANSC, DARY, or PLSC, and remaining hours from ZOOL 3000-4999, BCH 4000-4999, CHEM 2000-4999, MBIO 3000-4999, PHYS 2000-4999, or NS 4000-4999.

Approved Electives (21 hrs.)—Select 21 hrs. from the approved electives list available from the Departments of Animal, Dairy, or Poultry Science.

Three-Plus-One Program

Students entering the School of Veterinary Medicine after completion of the first three years of the animal, dairy, and poultry sciences curriculum (102 hours) may receive the B.S. 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 de-
gree through the dean’s office in the College of Agriculture no later than 15 days after classes begin in the semester in which the degree is to be awarded.

DEPARTMENT OF ENTOMOLOGY
HEAD • Guillot, Professor
OFFICE • 102 Life Sciences Building
TELEPHONE • (504) 388-1634
FAX • (504) 388-1643

PROFESSORS • Boothe, Chapin, Foil, Fuxa, Goyer, Graves, Guillot, Hammond, Johnson, Meek, Pashley, Reagan, Riley, Rolston, Story
ASSISTANT PROFESSORS • Barbour, Henderson, Ottea

CURRICULUM
• The Department of Entomology offers instruction at the undergraduate and graduate levels. An undergraduate minor in entomology is available (see section on minor fields in this chapter). See the Graduate Bulletin for a description of the M.S. and Ph.D. programs in entomology.

DEPARTMENT OF EXPERIMENTAL STATISTICS
HEAD • LaMotte, Professor
OFFICE • 161 Agricultural Administration Building
TELEPHONE • (504) 388-8303
FAX • (504) 388-8344

PROFESSORS • Blouin, Escobar, Geaghan, Koone, LaMotte
ASSOCIATE PROFESSORS • Marx, Moniezun, Moser
ASSISTANT PROFESSORS • Macchiaveli, Templeman
INSTRUCTORS • Church, Coxe, Swoope
ADJUNCT FACULTY • Georgiev, Icaza

CURRICULUM
No undergraduate program is available. See the Graduate Bulletin for a description of the graduate program.

The Department of Experimental Statistics provides instruction at the undergraduate and graduate levels. The Master of Applied Statistics, offered by this department, is designed to acquaint graduate students with the techniques of statistical methods and their application to various fields of specialization. For additional information concerning this program, consult the Graduate Bulletin.

DEPARTMENT OF FOOD SCIENCE
INTERIM HEAD • Park, Professor
OFFICE • 111 Food Science Building
TELEPHONE • (504) 388-5206
FAX • (504) 388-5300

PROFESSORS • Grodner, Liuzzo, Meyers, Park, Rao
ASSOCIATE PROFESSOR • Godber
ASSISTANT PROFESSOR • Johns
ADJUNCT FACULTY • Auault, Bray, Champagne, Day, Hwang, W. Marshall, McMillin, Porter, Spanier, Tulley, Vercellotti, Wells, York

CURRICULUM COORDINATOR • Godber, Associate Professor
OFFICE • 111 Food Science Building
TELEPHONE • (504) 388-5206

CURRICULUM
• Food Systems

FOOD SYSTEMS

The food systems curriculum combines the food product components in the Departments of Food Science and Horticulture into a single, versatile program within the College of Agriculture. Through a common core of courses, students are provided with a basic foundation for the study of post-production food products. By selecting various areas of concentration, students choose a program of study suited to their specific needs and interests—horticultural and agronomic products; science and technology. Approved and free electives allow even greater individualization of the curriculum, which also provides excellent preparation for students entering graduate or professional study in food-related disciplines.

The objective of the horticultural and agronomic products area of concentration is to provide a general understanding of food processing technology applied to plant materials. Study includes the theory of food preservation, as well as techniques for fermentation, canning, flour milling, baking, oil extraction, dehydration, and freezing. Students are prepared for technical careers in processing technology, and research and development.

The science and technology area is designed for students interested in the basic aspects of food science and technology. Course work emphasizes the impact of basic science on food technology and food processing. Students are prepared for graduate study or for employment in technical positions within the food industry, including quality assurance, product development, and technical services.

CURRICULUM IN FOOD SYSTEMS

TOTAL SEM. HRS. • 134

FRESHMAN YEAR SEM. HRS.
Agribusiness 1001 ........................................... 3
Animal Science 1011 or Dairy Science 1048 or Poultry Science 1049 ........................................... 3
Biology 1001, 1002, 1005; or Biology 1201, 1208 and Plant Biology 1022; or Biology 1201, 1208 and Zoology 1202, 1209 ........................................... 3
Chemistry 1201, 1202 ........................................... 3
English 1000/1001, 1002 ........................................... 6
Mathematics 1020/1021, 1022 or 1020/1021, 1341 or 1023, 1431 ........................................... 3
Physics 1001 ........................................... 3
Physiology and Anatomy 1040 ........................................... 3
Preparation for ROTC ........................................... 3

JUNIOR YEAR SEM. HRS.
Experimental Statistics 4001 ........................................... 3
Food Science 4000 ........................................... 3
Food Science 4162 or Dairy Science 4081 ........................................... 3
Area requirements ........................................... 6
Approved electives ........................................... 10
Electives or ROTC ........................................... 8-7

SENIOR YEAR SEM. HRS.
Dairy Science 4040 ........................................... 4
Food Science 4100 ........................................... 3
Area requirements ........................................... 11-12
Approved electives ........................................... 10
Electives or ROTC ........................................... 8-5

Areas of Concentration

♦ Horticultural and Agronomic Products Area

Required Courses (19 hrs.) — FDSC 4060; HORT 4051 or FDSC 4075; HORT 2080, 4096; PLHL 3060.
Approved Electives (19 hrs.) — The list of approved electives is available from the Departments of Agronomy and Horticulture.

♦ Science and Technology Area

Required Courses (16 hrs.) — FDSC 4050, 4060, 4070, 4075; select one food processing course from ANSC 3053, DARY 4020, HORT 4051.
Approved Electives (19 hrs.) — The list of approved electives is available from the Department of Food Science.

DEPARTMENT OF HORTICULTURE
HEAD • Young, Professor
OFFICE • 137 J. C. Miller Hall
TELEPHONE • (504) 388-2158
FAX • (504) 388-1068

PROFESSORS • Johnson, Picha, Young
ASSOCIATE PROFESSORS • LaBonte, Wilson
ASSISTANT PROFESSORS • Kuehny, Motesacker, Shepard
INSTRUCTORS • Bush, Reynolds

CURRICULUM COORDINATOR • LaBonte, Associate Professor
OFFICE • 131 J. C. Miller Hall
TELEPHONE • (504) 388-1024

CURRICULUM
• Plant & Soil Systems (Horticultural Science Area; Ornamental, Olericulture, and Pomology Area; Turfgrass Management Area)

PLANT AND SOIL SYSTEMS

Consolidation of curricula in agronomy and horticulture 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 five areas—agronomic crops; horticultural science; ornamental, olericulture, and pomology; soil science; and turfgrass management. Each area is further individualized by the addition of approved and free electives.

Students interested in pursuing a minor in agronomy 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.)

The three areas of concentration (horticultural science; ornamental, olericulture, and pomology; and turfgrass management) 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 ornamental, olericulture, and pomology area of concentration will be prepared for careers in floriculture, nursery crop production, landscape horticulture, and the production and processing of fruits and vegetables. Floriculture is the cultivation and management of cut flowers and flowering and foliage plants. Careers in floriculture include floral design and marketing, interior landscaping, and the production of cut flowers and potted plants for distribution to florists, garden centers, landscape maintenance firms, arboreta, botanical gardens, and tissue culture propagation laboratories. Landscape horticulture involves the design and construction of landscape sites, as well as planting and maintenance of woody and herbaceous plants, turfgrass, ornamental bulbs, and related crops. Career opportunities in olericulture and pomology include jobs as field representatives and farm consultants, food processors, agricultural chemical suppliers, and produce brokers.

Students selecting the turfgrass management area pursue careers as landscape designers and managers; 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 personnel management.

### CURRICULUM IN PLANT AND SOIL SYSTEMS

#### TOTAL SEM. HRS. • 135

**FRESHMAN YEAR**  

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<tr>
<td>Plant Biology 1202</td>
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<tr>
<td>Chemistry 2011, 2012, 1212</td>
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<tr>
<td>English 1000/1001, 1002</td>
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<td>Mathematics 1020/1021 and 1022</td>
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<td>General education core course</td>
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<td>General education social sciences course</td>
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**SOPHOMORE YEAR**  

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<td>Chemistry 2060 or 2261</td>
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<td>Experimental Statistics 2000</td>
<td>3</td>
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<tr>
<td>Speech Communication 2060</td>
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<td>General education humanities course</td>
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**SENIOR YEAR**  

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<td>Electives or ROTC</td>
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</table>

### Areas of Concentration

#### Horticultural Science Area (65-67 hrs.)

- Agriculture 2072; Biochemistry 2083; Chemistry 2262, 2364; Entomology 2001; Experimental Statistics 4001; Horticulture 2050, 2061, 2076, 3010, 3012, 3015, 4010, 4016; Horticulture 4021, 4031, 4071, 4083, 4085, 4086 (select four); Plant Health 4000; General education social sciences course; approved electives.

#### Ornamental, Olericulture, and Pomology Area (65-66 hrs.)

- Entomology 2001, 4012; Horticulture 2050, 2061, 2076, 3012, 3015, 4021, 4071, 4086; Horticulture 4010, 4083, 4051, 4083, 4095 (select two); Landscape Architecture 2121; Plant Health 4000, 4012, 4070; general education social sciences course; approved electives.

- Turfgrass Management Area (65 hrs.)

- Entomology 2001, 4012; Horticulture 2050, 2051, 3012, 3015, 4021, 4071, 4086, 4090; Landscape Architecture 2121; Plant Health 4000, 4012, 4070; General education social sciences course; approved electives.

(A list of approved electives is available from the department.)

### DEPARTMENT OF PLANT PATHOLOGY & CROP PHYSIOLOGY

**HEAD** • Snow, Professor  
**OFFICE** • 302 Life Sciences Building  
**TELEPHONE** • (504) 388-1464  
**FAX** • (504) 388-1415

**PROFESSORS** • Berggren, Black, Clark, Cohn, Griffin, Holcomb, Jones, McGawley, Murali, Rush, Schneider, Snow

**ASSOCIATE PROFESSORS** • Damann, Hoy, Musgrave, Valverde

**ASSISTANT PROFESSORS** • Braverman, Russin

**ADJUNCT FACULTY** • Bond, Coughran, Groth

**CURRICULUM**
- No undergraduate program is available. See the Graduate Bulletin for a description of the graduate program.

### DEPARTMENT OF POULTRY SCIENCE

**HEAD** • Teekell, Professor  
**OFFICE** • 102 Poultry Science Building  
**TELEPHONE** • (504) 388-4461  
**FAX** • (504) 388-1259

**PROFESSORS** • Hebert, Satterlee, Teekell  
**ASSOCIATE PROFESSORS** • Farr, Ingram  
**ADJUNCT FACULTY** • Goodson-Williams

**CURRICULUM**
- Animal, Dairy, and Poultry Sciences (Poultry Science Area, Science and Technology Area, "Three-Plus-One Program")

The Department of Poultry Science offers programs in poultry science 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 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

The curriculum in animal, dairy, and poultry sciences consolidates the curricula for the Departments of Animal Science, Dairy Science, and Poultry Science. 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 the approved and free electives. See the listing of College of Agriculture minors for details.

Prior to entering the program, students are encouraged to consult a counselor for guidance in scheduling courses. Those students interested in entering the School of Veterinary Medicine must take BIOL 1201 and 1208; CHEM 2261, 2262, 2364 or CHEM 2060, BCH 2083, 2084; MATH 1020/1021 and 1022; MBIO 2051; PHYS 2001 and 2002; SPCM 2010 or 2060; and ZOOL 1202 and 1209 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. 134

*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.

FRESCHMAN YEAR

Animal Science 1011, Dairy Science 1048, or Poultry Science 1049 3
Biology 1001, 1002, 1005, or Biology 1201, 1208, Zoology 1202, 1209 8
Chemistry 1201, 1202, 1212 3
English 1000/1001, 1002 6
Mathematics 1020/1021; 1022 or 1431 3
General education arts course 3
TOTAL 34

SOPHOMORE YEAR

Agriculture 2072 or Zoology 2150 3-4
Chemistry 1200 or 2220 3
Economics 2030 3
Experimental Statistics 2201 4
Microbiology 2051 3
Speech Communication 2060 3
General education humanities courses 6
General education social sciences course 3
Area of concentration courses 3
TOTAL 32-33

JUNIOR YEAR

Area of concentration courses* 10-18
Approved electives* 6-15
Electives or ROTC* 3-18
TOTAL 34

SENIOR YEAR

Area of concentration courses* 5-17
Approved electives* 5-16
Electives or ROTC* 3-1
TOTAL 33-34

Areas of Concentration

Poultry Science Area

Required Courses (16 hrs.)—PLSC 2040, 4032, 4052; VETS 4004 or DARY 4020; PLSC 4031 or FDSC 4005; PLSC 4051 or PLSC 4040.
Approved Electives (21 hrs.)—Select 21 hrs. from the approved electives list available from the Department of Poultry Science.

Science and Technology Area

Required Courses (32 hrs.)—Select at least 16 hrs. from courses in ANSC, DARY, or PLSC, and remaining hours from ZOOL 3000-4999, BCH 4000-4999, CHEM 2000-4999, MBIO 3000-4999, PHYS 2000-4999, or NS 4000-4999.
Approved Electives (21 hrs.)—Select 21 hrs. from the approved electives list available from the Departments of Animal, Dairy, or Poultry Science.

Three-Plus-One Program

Students entering the School of Veterinary Medicine after completion of the first three years of the animal, dairy, and poultry sciences curriculum (102 hours) may receive the B.S. degree and the following successful completion of the first year of the professional curriculum in veterinary medicine. (See the School of Veterinary Medicine Bulletin for details of the first year of the professional curriculum.)

Students pursuing this program will be required to establish residence in the College of Agriculture for 30 semester hours prior to entering the School of Veterinary Medicine. They also must make application for the degree through the dean's office in the College of Agriculture no later than 15 days after classes begin in the semester in which the degree is to be awarded.

PREVETERINARY MEDICINE

CURRICULUM COORDINATOR • French, Professor
OFFICE • 136 Dalrymple Building TELEPHONE • (504) 388-5440

Students seeking a career in veterinary medicine must be prepared to complete a minimum of six years of college education, including two or more years in the preveterinary curriculum. Preprofessional requirements may be completed at LSU or at any accredited college or university offering courses of the content and quality prescribed in this catalog. Students desiring to enter the preveterinary medicine curriculum should contact the dean of the College of Agriculture prior to initial registration to ensure proper enrollment in required courses.

Some students find it advantageous to start their preprofessional training the summer after high school graduation. Currently, all colleges of veterinary medicine in the U.S. have more qualified applicants than can be admitted. Because it will not be possible to admit all eligible applicants, students who have completed 75 hours of course work and who are not admitted to the professional program will be required to select a degree-granting curriculum and work toward a bachelor's degree. Selection of a curriculum in no way restricts further application to the LSU School of Veterinary Medicine.

The School of Veterinary Medicine's Faculty Committee on Admissions requires a formal application with supporting credentials from each candidate. The deadline for submission of the application and related materials is in November of the year prior in which admission is desired. November 1 is the deadline for all students. Admission to the professional program of the school will be granted only for the fall semester and only on a full-time basis. Class size will be limited.

Scholastic achievement will be measured by performance in the required preprofessional courses. Students must have a grade-point average of at least 2.50 ("A" = 4) in required courses for consideration for admission. A grade of less than "C" in a required course is unacceptable. All preprofessional requirements for the LSU program in veterinary medicine must be completed by the end of the spring semester of the calendar year for which application is made. The Graduate Record Examination (GRE) or the Medical College Aptitude Test (MCAT) must be taken prior to submission of application materials. Final selection of applicants for admission to the professional curriculum in veterinary medicine will be made by the School of Veterinary Medicine's Faculty Committee on Admissions.

The two-year preveterinary curriculum for the LSU School of Veterinary Medicine is listed below. Requests for additional information concerning the preveterinary program should be addressed to: Dean, College of Agriculture, or Dean, School of Veterinary Medicine. Admission to the preveterinary curriculum does not carry assurance that the student will be admitted to the professional curriculum. See also the "School of Veterinary Medicine" section of this catalog.

Three-Plus-One Program

Students entering the School of Veterinary Medicine following completion of the first three years of the animal, dairy, and poultry sciences curriculum (102 hours) may
receive the B.S. degree following successful completion of the first year of the professional curriculum in veterinary medicine. (See the School of Veterinary Medicine Bulletin.)

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 must also make application for the degree through the Office of the Dean, College of Agriculture, no later than 15 days after classes begin in the semester in which the degree is to be awarded.

CURRICULUM IN PREVETERINARY MEDICINE

FRESHMAN YEAR (1ST SEM.) SEM. HRS.
Biology 1201, 1208 4
Chemistry 1201 3
English 1001/1002 3
Mathematics 1020/1021 3
Elective 3 3

FRESHMAN YEAR (2ND SEM.) SEM. HRS.
Chemistry 1202, 1212 4
English 1002 3
Mathematics 1022 3
Zoology 1202, 1209 3
Elective 3 3

SOPHOMORE YEAR (1ST SEM.) SEM. HRS.
Biochemistry 2083, 2084 4
Chemistry 2060 3
Physics 2001 3
Electives 3

SOPHOMORE YEAR (2ND SEM.) SEM. HRS.
Microbiology 2051 4
Physics 2002 3
Electives 3 3

SCHOOL OF FORESTRY, WILDLIFE, AND FISHERIES

DIRECTOR • Carpenter, Professor
OFFICE • 227 Forestry-Wildlife-Fisheries Building
TELEPHONE • (504) 688-4131
FAX • (504) 368-4227

PROFESSORS EMERITI • Burns, Culley, Fogg, Hansbrough, Linnartz
PROFESSORS • Avault, Carpenter, Carter, Chastock, Chang, Choong, Johnson, Noble, Romaine, Shilling, Smith, Wright
ASSOCIATE PROFESSORS • Cao, Chambers, Hamilton, Kelso, Reich
ASSISTANT PROFESSORS • Dean, de Hoop, Guedanti, McDill, Rehwer, Rutherford, Sabo, Stine, Tiersch, Vlisky

CURRICULA • Forestry (Forest Management)
• Wildlife and Fisheries

The School of Forestry, Wildlife, and Fisheries offers undergraduate and graduate education to students who wish to study these disciplines. The two undergraduate curricula provide students with professional education in forestry or in wildlife and fisheries. Students in the forestry curriculum can work with advisers to specialize in an area consistent with the student’s interests. Within the wildlife and fisheries curriculum, students can select from a list of approved electives in a chosen area of concentrated study. The educational program in Forestry (Forest Management) leading to the first professional degree in forestry, the Bachelor of Science in Forestry (B.S.F.), is accredited by the Society of American Foresters (SAF). SAF is the specialized accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation as the accrediting agency for forestry in the U.S. The wildlife and fisheries curriculum provides the educational requirements for graduates to be certified by the Wildlife Society or the American Fisheries Society.

The forestry curriculum is designed to educate students in fundamental sciences and in the theory and practice of forest resource management and to prepare students for graduate study in more specialized areas of forestry. Accordingly, the forestry curriculum has the flexibility to permit the student to pursue a University-approved minor, such as wildlife, or, after consultation with an adviser, to use elective hours to specialize in an area consistent with the student’s interests. For example, specialization may be in biometrics, economics, business, forest ecology, tree physics, forestry, forest management, urban forestry, industrial operations, silviculture, genetics, or wood utilization. All forestry students are required to attend eight weeks of field courses during the spring semester of the junior year.

The wildlife and fisheries curriculum provides for areas of concentrated study in either wildlife, fisheries, fish and wildlife conservation, or aquaculture. It is designed to prepare students for professional careers as wildlife and fisheries biologists and for graduate study in wildlife and fisheries. Job opportunities for graduates of both curricula exist in private industry, state agencies, and the federal government.

Transportation for field trips is provided by the University but financed by the students. Field fees vary in amount, based on the cost of transportation, and are paid soon after classes begin.

Three-Plus-One Program

Students preparing to enter the School of Veterinary Medicine are invited to enroll in the “three-plus-one” program between the School of Forestry, Wildlife, and Fisheries and the School of Veterinary Medicine. In this program, students spend three years in the wildlife-wildlife-vertebrate medicine area of concentrated study, after which they are eligible to apply for admission to the School of Veterinary Medicine. Students will be awarded the B.S. degree concurrently with the awarding of the D.V.M. degree. No student in this program can receive the B.S. degree in wildlife and fisheries until the D.V.M. degree has been awarded.

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 must also make application for the degree through the Dean’s office in the College of Agriculture no later than 15 days after classes begin in the semester in which the degree is to be awarded.

To complete the “three-plus-one” program in the most efficient manner, students must choose as electives BCH 2083, 2084, or CHEM 2262, 2364; FOR 2001; MBIO 2051; PHYS 2001, 2002; and as approved electives, WILD 4013 or 4035. The required first-year veterinary medicine courses (39 hrs.) will fulfill remaining B.S. degree requirements.

CURRICULUM IN FORESTRY (FOREST MANAGEMENT)

TOTAL SEM. HRS. • 134

Requirements for the Bachelor of Science in Forestry degree include completion of at least 133 semester hours with a grade-point average of 2.00 or above on all work taken, except those courses for which grades of “P,” “W,” or “I” are recorded.

FRESHMAN YEAR SEM. HRS.
Biolog 1201, 1208 and Plant Biology 1202 8
Chemistry 1201, 1202, 1212 8
English 1002 3
Forestry 1001 3
Mathematics 1022 3
General education arts course 3
General education humanities course 3

SOPHOMORE YEAR SEM. HRS.
Agronomy 2051 4
Experimental Statistics 2201 4
Experimental Statistics 2000 4
Forest 2001, 2011 5
Forestry 2043 4
Speech Communication 2060 3
Electives 6

JUNIOR YEAR SEM. HRS.
Economics 2130 3
English 3002 3
Forestry 3002, 3003, 3004, 3061 14
Forestry 3034, 3036, 3037 5
Forestry 4038, 4039 7
General education humanities course 3

SENIOR YEAR SEM. HRS.
Forestry 4021, 4032, 4036, 4038, 4039 16
Electives 12
Entomology/Plant Health 4018 4
Wildlife 4011 3

CURRICULUM IN WILDLIFE AND FISHERIES

Approved electives must be in an area of concentrated study and be selected with approval of a designated faculty counselor; may include credit for basic ROTC.

TOTAL SEM. HRS. • 135

FRESHMAN YEAR SEM. HRS.
Biolog 1201, 1208 and Plant Biology 1202 8
Chemistry 1201, 1202, 1212 8
English 1000/1001, 1002 6
Mathematics 1020/1021, 1022, 1431 9
ASSISTANT PROFESSORS • Cantwell, Dastoor, Garrison, Pierce, Reed
INSTRUCTORS • Benedict, Bourgeois, Marquette, Moore, Puls, Rabalais

CURRICULA
• Dietetics
• Family, Child, and Consumer Sciences
• Textiles, Apparel, & 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: dietetics; family, child, and consumer sciences (human services management, consumer sciences, nursery school and kindergarten teaching concentrations); and textiles, apparel, and merchandising. Each curriculum provides the student with a concentrated professional sequence in an area of specialization and supporting coursework in basic sciences and/or arts, and a breadth of general education. Professional areas supporting certification requirements for nursery school and kindergarten teaching are listed as part of the curriculum in family, child, and consumer sciences.

All undergraduate programs are fully accredited by the Council for Professional Development of the American Home Economics Association. In addition, specialized accreditation and/or program approval is offered by the National Council for Accreditation of Teacher Education and the American Dietetics 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 programs, research, and service focus on the families as a system and the interaction of the social sciences.

A one-year visiting-student program with the Fashion Institute of Technology, a fully accredited college under the administration of the State University of New York, is available to students who have junior standing and who are majoring in textile science, apparel design, or merchandising. The program is designed to enhance the curricula of students through supplemental course work and experience with apparel designers, manufacturers, and retailers.

CURRICULUM IN DIETETICS

TOTAL SEM. HRS. • 134

Upon completion of this curriculum, a student is eligible to apply for a dietetic internship or approved pre-professional practice program, and complete requirements to become a registered dietitian. Although most dietitians are employed as members of the medical team in health care facilities, many other employment opportunities exist, such as food service administration, food product development, private practice, sports nutrition, nutrition product sales, consulting, and research.

FRESHMAN YEAR SEM. HRS.
Chemistry 1201, 1202, 1212

ASSISTANT PROFESSORS • Cantwell, Dastoor, Garrison, Pierce, Reed
INSTRUCTORS • Benedict, Bourgeois, Marquette, Moore, Puls, Rabalais

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FRESHMAN YEAR SEM. HRS.
Chemistry 1201, 1202, 1212
social sciences courses (6 hrs.); general education humanities course (3 hrs.)
Approved Electives (3-4 hrs.)—science elective.

CURRICULUM IN FAMILY, CHILD, AND CONSUMER SCIENCES

TOTAL SEM. HRS. • 134-135

Students completing this curriculum are eligible to apply for positions in government or the private sector relating to administration and management of family services programs, management of family resources, consumer economics, and nursery school and kindergarten teaching. Employment opportunities exist in business, cooperative extension, education, programs for the elderly, consumer agencies, media, and federal, state, and local government.

FRESHMAN YEAR SEM. HRS.
Art 1001, 1011, 1440 or 1441 3
English 1000/1001, 1002 6
Human Ecology 1000, 1010 6
Mathematics 1020/1021 3
Mathematics 1022, 1100, or 1431 3
Anthropology 1003 3
Area of concentration courses 9-11
Electives 0-11 33-36

SOPHOMORE YEAR SEM. HRS.
Economics 2030 3
English 3020, 3022, 2025, 2027, 3070, or 2148 (select two) 6
Speech Communication 2010, 2040, 2060, 2063, or 2862 3
Human Ecology 2005 3
Sociology 2001 3
Area of concentration courses 12-17
Electives 0-3 33-35

JUNIOR YEAR SEM. HRS.
Human Ecology 3054, 3062, 3070 9
Human Ecology 3090 1
Area of concentration courses 18-21
Electives 6 34

SENIOR YEAR SEM. HRS.
Human Ecology 4050, 4066 6
Area of concentration courses 15-27
Approved electives 0-9
Electives 0-3 31-33

Areas of Concentration

♦ Human Services Management Area

Required Courses (70 hrs.): EDFA 4365; HUEC 3053, 3060, 3601, 4051, 4067; natural sciences (must include both physical and biological sciences, with a two-semester sequence required in one area); PHSC 1010, 2000 or 2000 or 2020 or 2025; POLI 2070; PSYC 2000 or 2004 or 2040 or 2060, 4176; SOCL 2211, 3501 or 3601, 4401; SW 3002 or 3007 or 3011; EXED 4025 or 4026 or VED 4540; EXED 2201 or SOCL 2201; PSYC 4072 or SOCL 4531; SW 4003 or SOCL 4511 or 4461.

♦ Consumer Science Area

Required Courses (60-61 hrs.): ACCT 2000 or 2001; ECON 2035 or approved elective; ECON 4010 or 4020 or 4110 or 4120 or 4130; FIN 3200 or 3201; ACCT 2101 or approved elective; HUEC 3060, 3061, 4067; SOCL 2211; HEED 4004; MKT 3401, 3411; MGT 3200; FIN 3715 or MGT 3211 or EXST 3001; natural sciences (must include both physical and biological sciences with a two-semester sequence required in one area); POLI 2070; PSYC 2000 or 2004 or 2040 or 2060; EXST 2201 or SOCL 2201 or QBA 2000.
Approved Electives: A list of approved electives is available from the School of Human Ecology.

♦ Nursery School and Kindergarten Teaching Area

To select the professional concentration of nursery school-kindergarten teaching, a student must have a 2.20 grade-point average and have completed a minimum of three clock hours of counseling related to the student's suitability and aptitude for teaching and the availability of jobs both geographically and by subject matter. (To enter the teacher education program, students must have a 2.50 grade-point average and have passed the communication skills and general knowledge portions of the National Teacher Examination (NTE). Both of these requirements must be met before taking courses indicated by "♦.")
To apply for nursery school-kindergarten teaching certification, a student must have no grade lower than a "C" in professional or specialized academic education courses (as indicated by "♦"). Have an overall 2.50 grade-point average, have passed the National Teacher Examination, and have completed 136 semester hours of required course work, as specified below.

For state certification, students must earn a "C" or better in courses marked with asterisks (*).

Freshman Year (35 hrs.)—ART 1001,* 1011,** 1440* or 1441,* BIOL 1001, 1002; PHSC 1001, 1002 (select three); ENGL 1000/1001, 1002; KIN activity courses; HUEC 1000,* 1010,* MATH 1020/1021; MATH 1022, 1100, or 1431; ANTH 1003.
Sophomore Year (36 hrs.)—ECON 2030; ENGL 3020, 3022, 2025, 2027, 3070, or 2148 (select two); HIST 2055 or 2057; HUEC 2014,* HUEC 2065,* KIN 2061,* KIN elective; MUS 2170,* PSYC 2060,* SPCM 2010,* 2040,* 2060,* 2063,* or 2862,* EDCI 2030,* SOCL 2001.
Junior Year (34 hrs.)—EDCI 3000,++ EDCI 3200,* 3400,* HIST 3071,* HUEC 3062,* 3070,* 3053,* 3054,* 3090,* Sciences elective; Electives.
Senior Year (31 hrs.)—HUEC 4050,* 4056,* 4065,* 4060,* 4066,* EDCI/HUEC 4055,* 4057,* 4058,* PSYC 4176.

CURRICULUM IN TEXTILES, APPAREL, AND MERCHANDISING

TOTAL SEM. HRS. • 134

Students interested in textiles, apparel, and merchandising combine courses in textiles and apparel design with courses in merchandising and business as preparation for industry positions in textiles, apparel design, production, distribution, or retail buying and selling. Students may also seek careers in retail management and fashion promotion, consultation, and coordination.

FRESHMAN YEAR SEM. HRS.
Human Ecology 1000 3
English 1000/1001, 1002 3
Mathematics 1020/1021 3
General education social sciences course 3
General education biological sciences course 3
Area of concentration courses 12
Electives 5 35

SOPHOMORE YEAR SEM. HRS.
Economics 2030 3
Experimental Statistics 3
Human Ecology 2040, 2041 3
Human Ecology 2045 3
General education humanities course 3
Area of concentration courses 15
Electives 5 34

JUNIOR YEAR SEM. HRS.
Speech Communication 2060 3
General education humanities course 3
Area of concentration courses 22-25
Electives 4-1
Approved electives 6 34

SENIOR YEAR SEM. HRS.
Human Ecology 3090 3
Approved electives 3-6
Area of concentration courses 23-27
Electives 4-0 31

Areas of Concentration

♦ Textile Science Area

Required Courses—MATH 1022, 1550, 1552; CHEM 1201, 1202, 1212, 2261, 2262, 2001, 2002; PHYS 2001 or 2011, 2062; ENGL 3002; MGT 3200, 4702 or 4620; HUEC 4042, 4043; HUEC 2036 or 3031 or 3034; HUEC 4031 or 4032 or 4041; EXST 4001; general education arts elective.
Approved Electives (12 hrs.): A list of approved electives is available from the School of Human Ecology.

♦ Apparel Design Area

Required Courses—ART 1011, 1847, 1848; MATH 1022 or 1100 or 1431; ACCT 2000 or 2001; HUEC 2032, 2036, 2038, 3031, 3034, 3036, 3037, 3045, 3232, 3235, 3236, 3239, 3240, 3241, 3401 or 4042 or 4043; 3 hrs. from MGT 3200, 4701, or 4702; MKT 3401.
required courses—Art 1011; Chem 1001, 1002; Math 1025, 1431; ACCT 2000 or 2001; SPCM 2061 or Engr 2002; Fin 3200 or 3201; MKT 3401, 3431; MGT 3200, 4620; HUEC 3031, 3034, 3043, 3044, 3045, 4042 or 4043, 4046, 4047, 4070; 4031 or 4032 or 4041; 3061 or 3062 or MKT 3411.

Approved Electives (12 hours)—A list of approved electives is available from the school.

SCHOOL OF VOCATIONAL EDUCATION

INTERIM DIRECTOR • Burnett, Professor OFFICE • 142 Old Forestry Building TELEPHONE • (504) 388-5748 FAX • (504) 388-5755

PROFESSORS • Burnett, Flint, Harrison, Kotrl, McMurry, Richardson, Verma
ASSOCIATE PROFESSORS • Holt, Kastmeyer, Redman, Trot
ASSISTANT PROFESSORS • Holton, Holmes INSTRUCTOR • Tassin

CURRICULUM • Vocational Education

The curriculum in vocational education is available with areas of concentration in agriculture, business, health services, industrial arts, education, and general education.

Admission to the School of Vocational Education

• General (for students who select the Adult/Continuing path): These students are eligible for admission to the school in accordance with admission and retention requirements prescribed by the College of Agriculture.

• Teacher Certification (for students who select the Teacher Certification path): The teacher education program in Vocational Education is administered by the dean of the College of Agriculture. A list of approved electives is available from the school.

Curriculum in Vocational Education

The curriculum offers the student an opportunity to select either of two paths:

• Adult/Continuing

• Teacher Certification

Students following either path will select one of the approved options and develop a 30-hour technical core in consultation with a faculty advisor.

Students interested in the study of training, development, and resource development should apply for the adult and continuing education program. 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 departments, human resource development, training administration and consulting, classroom instruction, management development, career development, technical training, and related careers. While sharing some courses with the adult education emphasis, this program emphasizes the application of educational 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 the development of the professional who has a variety of methodologies and skills to be able to respond to the diverse needs of the modern workplace. Students are also expected to develop a content specialization outside the training core as part of their program of study. The path includes sufficient flexibility for students to tailor the program to fit their career objectives. Students interested in this area should contact the School of Vocational Education prior to admission.

The path leading to the Louisiana teacher certification prepares a student for certification in one of the four previously mentioned areas of concentration. Although most of these graduates enter the teaching profession, some have demonstrated that people who hold a state teaching certificate find employment in a wide variety of other instructional related professions.

Courses marked with asterisks (*) are required for students who anticipate applying for teacher certification.

TOTAL SEM. HRS. • 135

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>English 1000/1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1020/1021, and any general education analytical reasoning course</td>
<td>6</td>
</tr>
<tr>
<td>General education natural sciences sequence</td>
<td>6</td>
</tr>
<tr>
<td>Technical core courses</td>
<td>12</td>
</tr>
<tr>
<td>Electives or ROTC, Kinesiology*</td>
<td>3</td>
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</tbody>
</table>

Sophomore Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>General education arts course</td>
<td>3</td>
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<tr>
<td>General education humanities</td>
<td>3</td>
</tr>
<tr>
<td>Kinesiology 2601</td>
<td>1</td>
</tr>
<tr>
<td>Experimental Statistics 2000</td>
<td>3</td>
</tr>
</tbody>
</table>

General education

natural science courses                                               | 3       |
Vocational Education 2001 3
Technical core courses 8
Electives or ROTC, Psychology 2060* and 2078,* social sciences course* 9
33

JUNIOR YEAR SEM. HRS.
Vocational Education 3200 3
Economics 2030 3
General education humanities course, English* 3
Professional elective course, Vocational Education 3601 3
Technical core courses 15
Electives, Curriculum & Instruction 315,* natural sciences course 6
36

SENIOR YEAR SEM. HRS.
General education social sciences course, History 2055,* 2057* 3
General education humanities speech course 3
Vocational Education 4809, 4200* 3
Technical core courses, Vocational Education 4102* 12
Vocational Education 4301* 3
Vocational Education 4801,* 4802* 4803* 9
33

Areas of Concentration
♦ Adult, Extension, and International Education Area

Technical Core Courses—50 hrs.: 19 hours of approved courses chosen from EXED 4010, 4025, 4026; HEED 4464, 4869; VED 3602, 4105, 4601, 4704, 4705, 4809; 12 hours, including 6 hours from the HUEC/SW and 6 hours from the PSYC/SOCL chosen from the HUEC 1010, 2010, 2014, 2065, 3012, 3016, 3053, 3054, 4505; SW 3002, 3003, 3007, 3008, 4005; PSYC 2000, 2040; SOCL 1001, 2001, 2351, 2501, 4551, 4701; 19 hours chosen from courses above or from agronomy, biology, plant biology, environmental studies, forest resources, geography, horticulture, mass communication, kinesiology, microbiology, political science, speech communication, and zoology.

This concentration focuses on broad goals and flexible curriculum planning to meet specific individual objectives.

Adult education prepares students for traditional, nontraditional, and nonformal education-related careers at all levels, in agencies and in educational institutions. The focus is on training individuals to teach learners how to learn; the transfer of learning; applications of learning; and preparations for careers and vocations.

Extension and international education centers work with youth/adults in organized and nonformal community settings, and on empowering people to work individually or in groups to solve problems. Courses will focus on needs assessment, program design, presentation techniques, evaluation, and development of educational materials. A block of 10 technical hours to suit a student's specific goals, and an internship provide practical work experience in the chosen specialty.

♦ Agricultural Education Area

This concentration prepares students for teaching agricultural education in secondary schools, working in agricultural business, and/or serving as county extension agents. Course work is provided in various areas of agriculture, including plant and animal sciences and agricultural economics.

Programs offered through courses in methods and techniques for training youth and adults.

Students will complete a 50-hour technical core. Using an approved list of technical core courses, students will develop a plan of study in consultation with a faculty adviser.

Students who anticipate entering the teacher certification program should inform the faculty adviser at the time the undergraduate program of study is being developed.

♦ Business Education Area

The business education concentration prepares students to function as productive professionals in supervisory, management, and staff personnel 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 government agencies. Students will complete a 50-hour technical core in business education, which may include course work in keyboarding, accounting, communications, management, marketing, finance, economics, shorthand, word processing, and data processing.

Using an approved list of technical core courses, students will develop an individualized degree plan in consultation with a business education adviser. These students also are encouraged to enroll in courses for certification in computer literacy (nine hours) and cooperative office education. (Six hours, plus a minimum of 2,000 hours of work experience in the business field).

Teaching minors in limited business education subjects also are offered. Business education advisers should be consulted for details.

Students who anticipate entering the teacher certification program should inform the faculty adviser at the time the undergraduate program of study is being developed.

♦ Career Development Area

Technical Core Courses—50 hrs.: 19 hours chosen from BUED 2071; EXED 4025; INED 3602, 4849; VED 3602, 4301, 4704, 4705, 4890; 12 hours which must include 3 hours from economics, 3 hours from management, and 6 hours from psychology/social studies chosen from ECON 2035, 4020, 4140, 4210, 4220, 4230; MGT 3200, 3320, 3500, 4322, 4620; PSYC 2000, 3050; SOCL 2001, 2351, 4331, 4511, 4521; 19 hours chosen from courses above or from EDAP 4360, 4608, 4660; GEOG 1001, 1003, 2062; HUEC 4050; SPCM 2010; SW 3008, 4005.

The focus in career development is on goals of individuals and organizations and how each affects 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; develop expectations of the individual and the organization; give counsel concerning the appropriate preparation for a given occupation; and explore career opportunities.

Students will complete a block of 50 technical hours based on the student's specific career goal and an internship will provide practical work experience in an organization.

♦ Home Economics Education Area

The home economics education concentration is designed to prepare individuals for employment opportunities in formal and informal educational institutions or in related educational pursuits in business, industry, the Cooperative Extension Service, and governmental agencies. Home economics 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 vocational education; and a professional internship.
- In addition to the above, Home Economics Education concentration is granted in one or both of the following areas: vocational home economics, focused on helping people improve the quality of life; and occupational home economics, focused on developing skills and knowledge for employment in service areas related to food, child care, housing and design, and institutional management. Certification in occupational home economics requires work experience and a specific program of study. An ancillary curriculum is also offered for nonvocational related degrees. Students who anticipate applying for entry into teacher certification should inform the faculty adviser so that appropriate technical requirements can be included in the degree plan.

A degree plan consisting of a 50-hour core will be developed from an approved list of technical courses related to home economics.

♦ Industrial Education Area

The concentration in industrial education provides training, supervision, and administrative development services for industry and education; provides professional preparation and certification for vocational-technical teachers; and develops the skills of elementary and secondary school teachers in this area.

Students will complete a 50-hour technical core. Using an approved list of technical core courses, students will develop a plan of study in consultation with a faculty adviser.

Students who anticipate entering the teacher certification program should inform the faculty adviser at the time the undergraduate program of study is being developed.
Training and Development Area

Technical Core Courses—50 hours:

Required courses (7 hours): EXST 2201; MGT 4620; 19 hours chosen from INED 3062, 4849, 4809; VED 3602, 4809; and 3 hours from EDAF 4365; SPCM 2010, 2060, 2061, 2064; 21 hours of approved electives from business education, administrative and foundational services, industrial education, speech communication, vocational education; instructional path to include at least 9 hours chosen from BUED 2071, 4252; EDAF 4501, 4507; INED 3055; SPCM 2010, 2061, 4104, 4119, 4160; VED 3055, 4464, 4601, 4704; non-instructional path to include 15 hours from BUED 2071; EDAF 4501, 4507; INED 3055; MC 3000, 3030; MKT 3401, 3421; SOCL 4311, 4411; VED 3601, 4464, 4704, 4705.

This concentration prepares students for human resource development/training and careers in business, industry, and government. Courses will focus on transferring knowledge about current theories and research into practical applications. Graduates will be prepared for careers including training and developments, human resources development, training administration, classroom instruction, training consulting, management development, technical training, and career development. Those interested in teaching may emphasize an instructional path, while others may choose a non-instructional path, such as program design or administration and management.

The concentration emphasizes the application of education methodologies in the workplace, as well as the unique needs of business, industry, and government. Strong emphasis is placed on using educational strategies to achieve organizational goals. There will be involvement with professional practitioners of training and career development and practical field experiences that apply theory and concepts.

This concentration includes study of the principles of training and development, instructional design methodologies, needs assessment, evaluation methods, administration of training programs, and workplace learning. This area is sufficiently flexible for students to tailor the program to fit career objectives.
The College of Arts & Sciences' primary purpose is to afford the student 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 training 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 three broad programs: humanities, natural sciences, and social sciences. By following one of these programs, the student will obtain a much wider background than is generally possible under the standard curriculum. The advantages of broad training for everyday life are obvious. Moreover, the added breadth of knowledge will be helpful in case the student continues beyond the bachelor's degree level. The teaching divisions within the college, the various curricula, and the degrees which are offered are shown in the chart on the following page.

STUDENT RESPONSIBILITY

Students in this college bear final responsibility for selection of their academic programs and adherence to all published regulations and requirements of the college and the University. Each student must see a counselor for a final degree checkout during the semester prior to the semester in which the degree is to be awarded.

Ignorance of a rule is not grounds for waiving that rule.

ADMISSION REQUIREMENTS

Students will be admissible to the College of Arts & Sciences if they have earned at least 24 semester hours, have a grade-point average of at least 2.00 (A' = 4) in all work taken, and have credit in or are eligible to enroll in ENGL 1002.

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:

- All group and course requirements as explained under "Curricular Requirements." (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 grade-point average of 2.00 (A' = 4) on all work taken in the LSU System and on all work taken.
- A minimum grade-point average in the major field of 2.00 (A' = 4) on all work taken in the LSU System and on all work taken.
- A minimum of 128 semester hours of degree credit.
- A minimum of 34 semester hours in courses numbered 2000 or above and an additional 30 semester hours in courses numbered 3000 or above.
- Degree credit will not be allowed for more than nine semester hours of 1000-level mathematics courses below 1550.
- A minimum of 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.
### COLLEGE OF ARTS & SCIENCES - UNDERGRADUATE DEGREES

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<td>Bachelor of Arts</td>
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<td>Communication Disorders</td>
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<tr>
<td>Department of English</td>
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<tr>
<td>Department of Foreign Languages &amp;</td>
<td>German</td>
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<tr>
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<td>Department of French &amp; Italian</td>
<td>French</td>
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<tr>
<td>Department of Geography &amp;</td>
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<tr>
<td>Anthropology</td>
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<td>Department of History</td>
<td>History</td>
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<td>Department of Military Science</td>
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<td>Department of Philosophy</td>
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<td>Department of Political Science</td>
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<td>Programs</td>
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<tr>
<td>Department of Geography &amp;</td>
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<td>Anthropology</td>
<td>Mathematics</td>
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<tr>
<td>Department of Mathematics</td>
<td>Psychology*</td>
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*Both the Bachelor of Arts and the Bachelor of Science may be earned in geography and psychology.

- English proficiency—a "C" or better in ENGL 1002. Students who enter the college before they take English 1002 must take the course their first semester in the college.
- Foreign language—a level of proficiency in one foreign language as required by the student's major. 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 B.A. or B.S. 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.

### Curricular Requirements

The college has divided its subjects of study into the following three groups:

#### Group I—Humanities
- Art
- Oriental Languages (Chinese, Japanese)
- Classical Languages (Latin, Greek)
- Communication Sciences & Disorders (2050 only)
- English
- German
- Greek
- Hebrew
- Philosophy
- Romance Languages (French, Italian, Spanish)
- Religious Studies
- Russian
- Speech Communication
- Theatre

#### Group II—Natural Sciences
- Biological
  - Biology
  - Oceanography & Coastal Sciences
  - Plant Biology
  - Microbiology
  - Zoology
- Mathematical
  - Computer Science
  - Mathematics

- Mathematics
- Philosophy
- Biology
- Oceanography & Coastal Sciences
- Plant Biology
- Microbiology
- Zoology
- Computer Science
DISTRIBUTION REQUIREMENTS FOR THE DEGREE

In addition to satisfying the departmental requirements for the major field, candidates for the B.A. and the B.S. degrees must meet minimum distribution requirements as outlined below:

BACHELOR OF ARTS (HUMANITIES)

Group I (Humanities)
- English—Freshman English.
- Literature—Six semester hours from the literature courses listed in the general education humanities requirement.
- Foreign Language—Through course 2053 or 2102—except anthropology, which requires an additional semester in the language.
- General education arts elective, and three additional hours in Group I, other than English or foreign languages.

Group II (Natural Sciences/Mathematics)
- Biological and physical sciences—A minimum of a year course (six semester hours) with two semester hours of accompanying laboratory in either the biological or physical sciences. Three additional hours must also be completed in the alternate sciences for a total of 11 semester hours. Some departments require six additional hours in the alternate science category for a total of 14 hours. Please refer to the appropriate curriculum in the following pages. Mathematics and computer science are considered mathematical sciences and cannot be used to fulfill the biological and physical sciences requirements.
- Mathematics—1020/1021 or 1023, plus one additional course from the general education analytical reasoning courses. (MATH 1020 may be taken as an alternative to MATH 1020/1021 for certain majors. Please refer to the appropriate curriculum guide in the following pages.)

Group III (Social Sciences)
- History—A minimum of six semester hours offered by the Department of History.
- Nine semester hours in at least two additional Group III subjects exclusive of history.
- Geography 2050 and 2051 do not fulfill Group III requirements.

BACHELOR OF ARTS (SOCIAL SCIENCES)

Group I (Humanities)
- English—Freshman English.
- Literature—Six semester hours from the literature courses listed in the general education humanities requirement.
- Foreign Language—Through course 2053 or 2102—except anthropology, which requires an additional semester in the language.
- General education arts elective, and three additional hours in Group I, other than English or foreign languages.

Group II (Natural Sciences/Mathematics)
- Biological and physical sciences—A minimum of a year course (six semester hours) with two semester hours of accompanying laboratory in either the biological or physical sciences. Three additional hours must also be completed in the alternate sciences for a total of 11 semester hours. Some departments require six additional hours in the alternate science category for a total of 14 hours. Please refer to the appropriate curriculum in the following pages. Mathematics and computer science are considered mathematical sciences and cannot be used to fulfill the biological and physical sciences requirements.
- Mathematics—1020/1021 or 1023, plus one additional course from the general education analytical reasoning courses. (MATH 1020 may be taken as an alternative to MATH 1020/1021 for certain majors. Please refer to the appropriate curriculum guide in the following pages.)

Group III (Social Sciences)
- History—A minimum of six semester hours offered by the Department of History.
- Nine semester hours in at least two additional Group III subjects exclusive of history.
- Geography 2050 and 2051 do not fulfill Group III requirements.

BACHELOR OF SCIENCE (NATURAL SCIENCES)

Group I (Humanities)
- English—Freshman English.
- Literature—Six semester hours from the literature courses listed in the general education humanities requirement.
- Foreign Language—Through course 2053 or 2102.
- General education arts course, and three additional hours in Group I, other than English or foreign languages.

Group II (Natural Sciences/Mathematics)
- Biological and physical sciences—A minimum of a year course (six semester hours) with two semester hours of accompanying laboratory in either the biological or physical sciences. Three additional hours must also be completed in the alternate sciences for a total of 11 semester hours. Some departments require six additional hours in the alternate science category for a total of 14 hours. Please refer to the appropriate curriculum guide in the following pages.
- Mathematics—At least five semester hours in mathematics selected from courses numbered 1020 or above.

Group III (Social Sciences)
- History—A minimum of six semester hours offered by the Department of History.
- Nine semester hours in at least two additional Group III subjects exclusive of history.
- Geography 2050 and 2051 do not fulfill Group III requirements.

For purposes of major only, psychology or geography may be considered as a natural science and students who elect to do so may earn a B.S. instead of a B.A. degree. Such students will fulfill all the requirements for the Bachelor of Science degree as listed above; and they may not use geography or psychology as one of the required three subjects in Group III.

MAJOR FIELD REQUIREMENTS

Candidates for a degree in this college will choose one of the three groups above (humanities, natural sciences, or social sciences) in which to do the majority of their work, and will select one subject within that group as their major field. Students may count a maximum of 45 hours in the major department toward the required 128 hours. However, for each hour in excess of 36 hours, one hour of upper level work (3000 level and above) must be taken outside the major department. Departmental requirements for majors are given later in this section.

Students may pursue double majors in this college. Both majors must be offered by departments within the college. Students pursuing double majors must fulfill all degree requirements for both majors.

MINOR FIELD REQUIREMENTS (OPTIONAL)

Although students are not required to pursue a minor field, 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 grade-point average in the minor field of 2.00 on all work taken in the LSU System and on all work taken.
- 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 interdisciplinary nature for which a minor has been approved by the Faculty Senate Courses and Curricula Committee and the Office of Academic Affairs.

This minor 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:

**AFRICAN AND AFRICAN-AMERICAN STUDIES**

In order to graduate with a minor in African and African-American Studies, students must complete at least 18 hours of course work in three categories: three hours of courses designated as AAAS (AAAS 2000); nine hours in a specific area; and six hours of electives.

- **Arts and Humanities Area—** ANTH 4050; ENGL 2674, 3674, 4220 (THTR 4220), 4674; MUS 2000, 2751, 2752; HIST 2061, 4067, 4068; FREN 4070.
- **Social Sciences Area—** ANTH 4051, 4053, 4064 (FREN 4064/LING 4064), 4470, EDAF 4003; GEOG 4032; HIST 2061, 4067, 4068, 4081, 4089; POLI 4038; SOCL 4511.
- **Electives—** In addition to the three hour core course, and nine hours in one area, students must select six hours of electives from the other area.

Additional requirements are as follows:

- No more than nine hours may be taken from one department;
- Courses must be selected from at least three departments; and
- No more than nine hours may be taken at the 2000 level.

**ART HISTORY**

In order 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**

In order to graduate with a minor in Asian studies, students must complete at least 18 hours of designated Asian studies courses, 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—** ART 2411; REL 2027, 3600, 3800; HIST 4078; HIST/REL 4191.
- **Social Sciences—** GEOG 4035; HIST 4091, 4092, 4093, 4094; POLI 4067; SW/GEOG 1000.

Other courses acceptable for general credit in Asian studies, subject to the approval of the Asian studies faculty, include ART 4401; ECON 4520; GEOG 1003, 4026, 4086; HIST 2095, 2096, 4195; HNRS 1101, 1103; REL 3300, 4350; SOCL 4511, 4551; and SW 5104.

**BUSINESS ADMINISTRATION**

In order to graduate with a minor in business administration, students in the College of Arts & Sciences must complete ACCCT 2030 or 2031, 2035; FIN 4030, 4053; MGT 3200; MKT 4301; and one of the following: SPCM 2010, 2061, 2064, 4101, 4113, or 4114. The QBA 2000 prerequisite for FIN 3715 may be satisfied with a descriptive statistics course. The economics courses are Arts & Sciences electives. Students interested in pursuing a Master of Business Administration degree should elect ACCCT 2001, CSC 1248, ECON 2010 and 2020, and MATH 1431 and 1435. Arts and Sciences majors may not take more than 25 percent of their courses in the College of Business Administration.

The degree program of a student outside the College of Business Administration may not consist of more than 24 hours of degree credit earned in courses offered by the College of Business Administration.

**JEWISH STUDIES**

In order 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:

- **Literature—** ENGL 3124, 3236, 3673, and depending on the topic, 2231, 3220, 4085.
- **History—** HIST 2001, 4025, 4026, 4125.
- **Sociology—** SOCL 4511, and depending on the topic, 2501, 3101.

In addition, special topics courses and courses with sections advertised as Jewish studies may be accepted for the minor with approval of the director.

For additional information, contact Rodger Kamenetz, 212-L Allen Hall, (504) 388-2984.

**WOMEN'S AND GENDER STUDIES**

In order to graduate with a minor in women's and 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, 4573, 4583, 4593 (depending on topic), FREN 4090, 4095, SPAN 4100.
- **Culture and Society—** ENGL 4493, LATN 2080, REL 3300, SOCL 4413, 4521, 4523, 4527, 4534, 4511;
- **Theory—** ENGL 4593 (depending on topic), PHIL 4015, WGS 3150.

In addition, WGS 4900, special topics courses, and courses with sections advertised as women's and gender studies may be accepted for the minor upon approval of the director.

For additional information, contact Michelle Massé, 238 Himes Hall, (504) 388-4807.

**ELECTIVES**

A student in the College of Arts & Sciences may elect for degree credit any course offered by the following departments or schools:

- Administrative & Foundational Services
- Aerospace Studies
- Art
- Biochemistry
- Chemistry
- Computer Science
- Communication Sciences & Disorders
- Curriculum & Instruction
- Economics
- English
- Entomology
- Environmental Studies
- Experimental Statistics
- Foreign Languages & Literatures
- French & Italian
- Geography & Anthropology
- Geology & Geophysics
- History
- Honors
- Mathematics
- Microbiology
- Military Science
- Music
- Nuclear Science
- Oceanography & Coastal Sciences
- Philosophy
- Physics & Astronomy
- Plant Biology
- Plant Pathology & Crop Physiology
- Political Science
- Psychology
- Sociology
- Speech Communication
- Theatre
- Zoology & Physiology

A student may receive a maximum of 12 semester hours of degree credit in ROTC. Students may elect courses for which they have the prerequisites in departments not listed above. Twenty-four semester hours of elective credit in such courses may be counted toward graduation from this college. No more than eight hours of kineticsology activity courses may be counted toward graduation from this college.

**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 grade-point average) 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.

**CORRESPONDENCE, EXTENSION, & MILITARY SERVICE CREDITS**

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 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 the semester they intend to graduate. Depending on the correspondence course, a special time limit may be imposed by the dean's office.

TEACHER CERTIFICATION

The College of Education offers only fifth-year certification programs at the graduate level for students interested in pursuing careers in secondary teaching fields. Students must first complete an undergraduate degree in their intended teaching field before entering the graduate program in education. The education program leads to the master's degree and teacher certification. Students interested in teaching as a career option should contact the dean's office for referral to a departmental adviser in the College of Education, Office of Student Services, 236 Peabody Hall.

PLACEMENT SERVICES

Students in this college may use the services of the University's Career Planning, Placement, & Co-op Center. These services include counseling, job-seeking skills workshops, job search handbooks, résumé service, career days, and on-campus recruiting and interviews.

STUDY ABROAD

Students in the College of Arts & Sciences are encouraged to participate in the study abroad programs administered by the Office of Academic Programs Abroad and the International Student Exchange Program. Students who participate in these programs must receive departmental evaluation of the courses 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 extra cost than they pay at LSU. Additional information can be obtained from the Office of Academic Programs Abroad.

PREPARATION FOR THE STUDY OF LAW

Because of the rich complexity of this discipline, students with very different academic backgrounds can undertake and excel in the study of law. There is no single curriculum or course of study which is prerequisite to or guarantees success in law school. Curriculum 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 of their graduates to complete academic requirements; (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.

Interested students should contact the pre-law adviser in the Department of Political Science for additional information.

A&S STUDENT COUNCIL/CLUBS

The college's Student Council is composed of student representatives from each of the college's departments. It is one of the major student organizations 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

Juniors and seniors with grade-point averages of 3.80 and 3.50, 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 (ENGL 3020 and 3022 preferred), or literature in a foreign language; six-hour sequences in both the life sciences and the physical sciences, with an additional two hours of related laboratory work in one of these fields; courses in several humanities and social sciences disciplines outside the major and at the 3000 level or above; and electives that show a commitment to a liberal education.

Sophomores and juniors with high grade-point averages should consult with Phi Beta Kappa officers or college counselors for more specific information.

PHI KAPPA PHI

Phi Kappa Phi, a national scholastic honor society founded in 1897, now contains 245 chapters on 343 campuses in the United States, one of the most prestigious scholastic honor societies in the world. The college, founded in 1930 as the 43rd chapter in the nation. At the present time, the national office is located on the campus in the French House.

The primary objectives of Phi Kappa Phi are to promote the pursuit of excellence in higher education and to recognize outstanding achievement by students and faculty through election to membership and through various awards and fellowships. Phi Kappa Phi is unique because it recognizes superior scholarship in all academic fields, rather than restricting membership to a limited field. Undergraduate and graduate students who rank in the top 10 percent of their graduating 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.

GRADUATION WITH COLLEGE HONORS

To graduate "with College Honors" in the College of Arts & Sciences, a student must meet the following requirements:

• achieve "Sophomore Honors Distinction";
• take at least 18 semester hours of honors seminars or departmental honors courses beyond the minimum required for "Sophomore Honors Distinction";
• register in a curriculum offered in the College of Arts & Sciences;
• complete a foreign language through 2055, or 2155, or in Latin, a 2000-level course above 2053, excluding courses taught in English;
• complete a curriculum of courses totaling at least 128 hours approved by the department concerned and by the dean and the faculty of the Honors College. This curriculum should be developed using the general curricular principles of the college, the purposes of which are to afford students a liberal education and to include (besides the major field) historical and political studies, the biological and physical sciences, the humanities, and the arts;
• demonstrate competence in a major field by doing independent research, writing a senior thesis, and taking an oral examination. The thesis counselor and one additional member of the student's committee must be from the student's major department;
• after the freshman year, maintain at least a 3.33 gpa ("A" = 4.00).

HONORS COURSES

Besides courses offered through the Honors College, other honors courses are offered through various departments, including:

Anthropology 4999
Chemistry 1421, 1422, 1431, 1432, 2463
English 1003, 2021, 2023, 2026, 2028, 2925, 2927, 2929, 3000, 3820, 3821, 3822, 3823, 3824, 3825
French 2103, 2104
Geography 4999
Geology 1002, 1004
History 1002, 1004, 2056, 2058, 3100, 3109, 3110
Mathematics 1101, 1551, 1553, 2058, 2086
Philosophy 2034, 2036, 2953, 2963, 2964, 2965, 3901, 3902
Political Science 2052, 3000, 3809, 3896, 3897
Physics 1201, 1202, 1208, 1209
Psychology 2001
Religious Studies 1006
Sociology 3905
Speech Communication 1062, 2862
Zoology 1203, 3950, 3951
DEPARTMENTS, SCHOOLS, & CURRICULA

DEPARTMENT OF AEROSPACE STUDIES
HEAD • Jacobs, Professor
OFFICE • 105 Military Science/Aerospace
STUDY HALL
TELEPHONE • (504) 388-4407
PROFESSOR • Jacobs
ASSISTANT PROFESSORS • Beckinger, Owen, So

For information on this department's program, see the "Reserve Officers Training Corps" section of this catalog.

DEPARTMENT OF COMMUNICATION SCIENCES & DISORDERS
CHAIR • Collins, Professor
OFFICE • 163 Music & Dramatic Arts Building
TELEPHONE • (504) 388-2545
PROFESSORS • Buckingham, Collins, Cullen, Dixit, Hoffman, Yule
ASSOCIATE PROFESSORS • Hudson, Koehneke, Norris
ASSISTANT PROFESSORS • Besing, Oetting
INSTRUCTORS • Johnston, Jumonville, Oxley, Samuel, Taylor, Travis

Speech and Hearing Clinic • As part of its training program, which is accredited in speech/language pathology and in audiology, the department maintains a clinic for the diagnosis and treatment of communication disorders. Clinical services are available to any individual, University student, or community member having speech, hearing, or language problems.

Disorders treated include articulation, dysfluency, cleft palate, voice disorders, aphasia, cerebral palsy, children's language disorders, and hearing disorders.

Students concentrating in speech pathology or audiology obtain practicum experience in the University clinic and in community clinics with which the University training program is affiliated, such as the Baton Rouge Speech and Hearing Foundation, Baton Rouge General Medical Center, Ochsner Clinic, Our Lady of the Lake Regional Medical Center, Earl K. Long Memorial Hospital, VA Hospitals, public schools, and other sites.

Those requesting clinical services should contact the Speech and Hearing Clinic in the Music & Dramatic Arts Building.

CURRICULUM IN COMMUNICATION DISORDERS

TOTAL SEM. HRS • 128

Majors in the Department of Communication Sciences and Disorders are required to take the following courses: COMD 2050, 2055, 2060, 2070, 2080, 4250, 4380, 4381, 4382, 4681, and 8 to 16 hours of COMD approved electives. A grade of "C" or higher is required for the following: COMD 4380, 4381, 4382, 4383, 4384, 4490, 4590, 4681, 4682, 4683, 4684, and 4685.

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education biological and physical sciences, literature, mathematics, and social sciences requirements.

*Students choosing French, German, or Spanish as their foreign language will take four to eight hours the freshman year, depending on placement, and six hours in the sophomore year. Students with no prior language study will have to extend the foreign language requirement into the junior year. Some adjustment in elective hours may be necessary.

FRESHMAN YEAR

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<tr>
<th>Course</th>
<th>SEM. HRS</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1000/1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Foreign language courses*</td>
<td>10</td>
</tr>
<tr>
<td>Mathematics 1020/1021 and 1022 or 1023 and one course higher than 1023</td>
<td>6-8</td>
</tr>
<tr>
<td>General education biological sciences (BIOL 1001, 1002, 1005)</td>
<td>8</td>
</tr>
<tr>
<td>General education (select from art, music, philosophy, theatre)</td>
<td>3</td>
</tr>
</tbody>
</table>

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign language (through course 2053 or 2102)*</td>
<td>3</td>
</tr>
<tr>
<td>General education physical sciences lecture</td>
<td>3</td>
</tr>
<tr>
<td>Approved English literature courses</td>
<td>6</td>
</tr>
<tr>
<td>Approved social sciences course (other than history)</td>
<td>3</td>
</tr>
<tr>
<td>Communication Disorders 2050, 2081</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 2160</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>6</td>
</tr>
</tbody>
</table>

JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication Disorders 4150, 4153, 4190, 4250, 4380, 4381, 4382, 4681</td>
<td>24</td>
</tr>
<tr>
<td>Approved electives</td>
<td>6-9</td>
</tr>
</tbody>
</table>

SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approved communication disorders electives</td>
<td>6-13</td>
</tr>
<tr>
<td>General education social sciences courses (two fields other than history)</td>
<td>6</td>
</tr>
<tr>
<td>Approved history electives</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives (3000/4000 level)</td>
<td>6-8</td>
</tr>
</tbody>
</table>

ECONOMICS (INTERCOLLEGIATE PROGRAM)

To graduate with a minor in economics, students in the College of Arts & Sciences must complete Economics 2030, 2035, 3720, 4710, and six additional hours in economics. Students majoring in economics in the College of Arts & Sciences are required to take Economics 2010, 2020, 2035, 3720, 4630, and 4710. Other economics courses (at least 30 semester hours required for the major) may be chosen with the advice and approval of the arts and sciences counselor in the Department of Economics. 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 biological 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.

*Students choosing French, German, or Spanish as their foreign language will take four to eight hours the freshman year, depending on placement, and six hours in the sophomore year. Some adjustment in elective hours may be necessary.

**If sequence in taken in biological science, this alternate science should be in the physical science category, and vice versa.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 2010, 2020</td>
<td>6</td>
</tr>
<tr>
<td>English 1000/1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Foreign language courses*</td>
<td>10</td>
</tr>
<tr>
<td>Mathematics 1431</td>
<td>3</td>
</tr>
<tr>
<td>General education biological or physical sciences (one semester lecture in alternate science)**</td>
<td>3</td>
</tr>
<tr>
<td>Approved economics elective</td>
<td>3</td>
</tr>
<tr>
<td>Approved history elective</td>
<td>3</td>
</tr>
<tr>
<td>Approved literature courses</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>7</td>
</tr>
</tbody>
</table>

JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approved economics electives</td>
<td>6</td>
</tr>
<tr>
<td>General education arts course (select from art, music, philosophy, theatre)</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities course (other than English or foreign language)</td>
<td>3</td>
</tr>
<tr>
<td>General education social sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>14</td>
</tr>
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SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 4630, 4710</td>
<td>6</td>
</tr>
<tr>
<td>General education humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Approved economics elective</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>9</td>
</tr>
<tr>
<td>Approved electives</td>
<td>8</td>
</tr>
</tbody>
</table>

DEPARTMENT OF ENGLISH

CHAIR • Fischer, Professor
OFFICE • 211 Allen Hall
TELEPHONE • (504) 388-4085
**If sequence is taken in biological sciences, then the alternate science should be in the physical sciences category, and vice versa.**

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>Area requirements</th>
<th>Foreign language (through course 2055 or 2155)**</th>
<th>General education biological or physical sciences (one science)**</th>
<th>General education arts course (select from art, music, philosophy, theatre)</th>
<th>Approved humanities course (other than English or foreign language)</th>
<th>Approved history elective</th>
<th>Approved electives or ROTC</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
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<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>Area requirements</th>
<th>General education analytical reasoning course</th>
<th>General education social sciences courses (two fields other than history)</th>
<th>Approved electives</th>
<th>Senior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>Area requirements</th>
<th>Approved social sciences electives</th>
<th>Approved electives</th>
<th>JUNIOR YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td></td>
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<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>Area requirements</th>
<th>Approved electives or ROTC</th>
<th>JUNIOR YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Three areas of concentration are offered: creative writing, literature, and language and culture. Special requirements for each area are as follows:

**Areas of Concentration**

**Creative Writing Area**

Six hours from ENGL 2025, 2027, 2029, 2123; nine hours from ENGL 3020, 3022, 3070, 3072; three hours from ENGL 2148, 4148, 4137, 4147; six hours from ENGL 2005, 2007, 2008, 2009; and six hours from ENGL 4000, 4001, 4005, 4006, 4007, 4008, 4009.

**Literature Area**

Six hours from ENGL 2025, 2027, 2029, 2123, 2024, 2300; nine hours from 3020, 3022, 3070, 3072; three hours from ENGL 3024, 3084; three hours from ENGL 2148, 4148, 4137, 4147; three hours from 2593, 2673, 2674, 3674, 3593, 4674, 4593; six hours of English electives; a maximum of nine hours at the 2000 level; a minimum of six hours at the 4000 level.

**Writing and Culture Area**

Engh 2300; three hours from ENGL 2025, 2027, 2029, 2123, 2024; three hours from ENGL 3020, 3022, 3070, 3072; at least three hours from ENGL 3300, 3301, 3310, 3384, 3401, 3024 or 3084; at least three hours from ENGL 4300, 4301, 4020, 4310; 12 hours of English electives; a maximum of nine hours at the 2000 level; a minimum of nine hours at the 4000 level.

**DEPARTMENT OF FOREIGN LANGUAGES & LITERATURES**

**Chair:** A. Ramirez, Professor

**Office:** 222 Prescott Hall

**Telephone:** (504) 388-6616

**Professors:** Edgeworth, Hart, Kittchell, A. Ramirez, Ricapito

**Associate Professors:** Batinski, Clarke, DiMaio, Di Napoli, Gelrich, Parker, Pizer, Schierrling, Stanfield

**Assistant Professors:** Addis, Bary, Golbirsch, Gold, Torrecilla

**Instructors:** Ashe, Chou, Craig, Fernandez, Giron Alvarado, Harrison, Montiel, M. Ramirez, Rutherford, Salcedo, Wang, Warga, Wilbanks

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 German or Russian. Persons whose native language is German or Russian may not take for credit courses 1101, 1102, 2101, or 2155 in that language.

To obtain a minor in Latin or Greek, a student must have a minimum of 17 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.

To obtain a minor in Classical Civilization, a student must have a minimum of 17 hours of approved courses in Latin or Greek who have more than six hours may be taken outside the department. At least six hours must be at the 3000 level or above. Any course in Latin or Greek language, numbered 2000 or above, may count toward the minor, as may Classical Studies 2080, 2090, 2101, 2102, 3015, 3020, 3032, and 3400. A list of courses outside the department which may count toward the minor is available in the departmental office or from counselors in the College of Arts & Sciences.

Beginning and intermediate Spanish are taken in the following sequence: 1101, 1102, 2101, 2102, or the sequence 1150, 2101, and 2102. Spanish 1150 is designed for students who have had training in Spanish. Spanish 1101 and 1102 are designed for students with absolutely no prior study of Spanish. Intermediate courses place increased emphasis on reading and writing, as well as oral communicative competence.

Students who have native fluency in Spanish may not take courses numbered below 3000.

Requirements for a Spanish minor are completion of 15 semester hours above Spanish 2102, including Spanish 2155, 3061.
3062, and six hours of courses at the 3000-
4000 level.

**CURRICULUM IN GERMAN**

<table>
<thead>
<tr>
<th>TOTAL SEM. HRS.</th>
<th>128</th>
</tr>
</thead>
</table>

Students majoring in German must com-
plete a minimum of 35 hours of German,
including GERM 1101, 1102, 2101, 2102,
2153, and 3061, and at least 15 hours of
German electives, at least six of which must
be at the 4000 level.

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

Consult “Degree Requirements of the
College” in this section of the catalog for
specific instructions regarding electives and
the general education biological and physical
sciences, literature, mathematics, and social
sciences requirements.

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1000/1001, 1002</td>
</tr>
<tr>
<td>German 1101, 1102</td>
</tr>
<tr>
<td>Mathematics 1020/1021 or 1029</td>
</tr>
</tbody>
</table>
| General education biological
or physical sciences (two-
semester lecture sequence
with corresponding labs) | 8 |
| Approved history elective | 3 |
| Approved electives or ROTC | 5 |
| **TOTAL** | **33** |

**SOHOMORE YEAR**

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>German 2101, 2102</td>
</tr>
</tbody>
</table>
| General education arts course (select from
art, music, philosophy, theatre) | 3 |
| General education biological or physical
sciences (one semester lecture in
alternate science)* | 3 |
| Approved history elective | 3 |
| General education humanities course
(other than English or foreign language) | 3 |
| Approved electives or ROTC | 13 |
| **TOTAL** | **31** |

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>German 2155, 3061</td>
</tr>
</tbody>
</table>
| General education social sciences courses (two fields
other than history) | 6 |
| General education analytical reasoning course | 3 |
| Approved German electives | 6 |
| Approved electives | 11 |
| **TOTAL** | **32** |

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approved German electives</td>
</tr>
<tr>
<td>Approved social sciences course</td>
</tr>
<tr>
<td>Approved electives</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
</tr>
</tbody>
</table>

**CURRICULUM IN LATIN**

<table>
<thead>
<tr>
<th>TOTAL SEM. HRS.</th>
<th>128</th>
</tr>
</thead>
</table>

Students majoring in Latin must com-
plete a minimum of 31 hours of Latin cour-
ses, with at least six hours at or above
the 3000 level. In addition, at least one semester
of ancient Greek must be completed. Students electing
this major are advised to take HIST

4004. Courses in ancient art and philosophy
are recommended.

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

Consult “Degree Requirements of the
College” in this section of the catalog for
specific instructions regarding electives and
the general education biological and physical
sciences, literature, mathematics, and social
sciences requirements.

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1000/1001, 1002</td>
</tr>
<tr>
<td>Latin 1001, 2051</td>
</tr>
<tr>
<td>Mathematics 1020/1021 or 1029</td>
</tr>
</tbody>
</table>
| General education biological
or physical sciences (two-
semester lecture sequence
with corresponding labs) | 8 |
| General education arts course (select from
art, music, philosophy, theatre) | 3 |
| Approved electives or ROTC | 3 |
| **TOTAL** | **33** |

**SOHOMORE YEAR**

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latin 2053, 2065</td>
</tr>
<tr>
<td>Ancient Greek elective</td>
</tr>
</tbody>
</table>
| Approved elective in Latin, Greek, or
Classical Studies at or
above the 2000 level | 3 |
| General education biological or physical
sciences (one semester lecture in
alternate science)* | 3 |
| General education analytical reasoning
course | 3 |
| Approved literature courses | 6 |
| General education humanities course
(other than English or
foreign language) | 3 |
| Approved electives or ROTC | 2 |
| **TOTAL** | **31** |

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approved Latin electives</td>
</tr>
</tbody>
</table>
| General education social sciences courses (two fields
other than history) | 6 |
| Approved history electives | 6 |
| Approved electives | 11 |
| **TOTAL** | **32** |

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approved Latin electives</td>
</tr>
<tr>
<td>Approved social sciences course</td>
</tr>
<tr>
<td>Approved electives</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
</tr>
</tbody>
</table>

**DEPARTMENT OF FRENCH & ITALIAN**

**CHAIR** • Wills, Professor
**OFFICE** • 205 Prescott Hall
**TELEPHONE** • (504) 388-6627

**LSU FOUNDATION HENRY J. VOORHIES PROFESSOR OF ENGLISH** • Olney
**PROFESSORS** • Humphries, Lafayette, Leupin, Olney, Vandeloise, Wills, Wing
**ASSOCIATE PROFESSORS** • Brind'Amour, Chambley, Jensen, Russo, Stone, Zebouni
**ASSISTANT PROFESSOR** • Dubois
**INSTRUCTORS** • Curly, Delzell, McCutchen, Pugh

A minor in French will consist of 15 hours of course work with at least six hours of 3000-4000 level courses. A minor in Ital-
ian will consist of 15 hours of course work with at least six hours of 3000-4000 level courses. A Curriculum leading to the B.A. degree with departmental honors in
French is offered. Details are available from the
departmental office.
CURRICULUM IN FRENCH

TOTAL SEM. HRS. • 128-132

For a major in French, students must take a minimum of 36 semester hours in French courses numbered above 2000, including French 2101, 2102 (or 2103, 2104), 2155, 2154 or 3058, 3060, 3071, 3072, 3080, 4003, and three additional 3000/4000-level courses.

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding requirements, electives, and the general education biological and physical sciences, literature, mathematics, and social sciences requirements.

Students earning credit for FREN 1050 must complete 132 hours; those earning credit for FREN 1001 and 1002 must complete 136 hours.

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

FRESHMAN YEAR

SEM. HRS.

English 1000/1001, 1002 ........................................ 6
French 1001, 1002 or 1050 ........................................ 4-8
Mathematics 1020/1021 or 1029 ................................. 3
General education biological or physical sciences* ........ 8
Approved history elective ........................................ 3
Approved electives or ROTC .................................. 6
Totalsemester hours ........................................... 30-34

SOPHOMORE YEAR

SEM. HRS.

French 2101, 2102 ..................................................... 6
General education biological or physical sciences ............ 3
General education analytical reasoning course ............. 3
General education arts course (select from art, music, philosophy, theatre) ........................................... 3
Approved history elective ........................................ 3
Approved humanities elective (other than English or foreign language) ........................................... 3
Approved electives or ROTC .................................. 13

JUNIOR YEAR

SEM. HRS.

French 2154 or 3058, 2155, 3071, 3072, 3080 ...................... 15
General education social sciences courses (two fields other than history) ........................................... 6
Approved electives .................................................. 13

SENIOR YEAR

SEM. HRS.

French 3080 .......................................................... 3
French 4003 (Senior Seminar) .................................. 3
French 3000/4000 electives .................................... 9
Approved social sciences elective ............................... 3
Approved electives .................................................. 12

DEPARTMENT OF GEOGRAPHY & ANTHROPOLOGY

CHAIR • Earle, Professor
OFFICE • 231 Howe-Russell GeoscienceComplex
TELEPHONE • (504) 388-5942
FAX • (504) 388-2912
FRED B. KNIFFEN PROFESSORSHIP • Richardson

BOYD PROFESSORS EMERITI • Walker, West
ALUMNI PROFESSORS EMERITI • Haag, Hilliard
PROFESSORS • Earle, Kessel, Lam, Muller, Muehl, Ward
ASSOCIATE PROFESSORS • Brody, Davidson, Edwards, Lewis, Liu, Mathewson, Tague, Veek
ASSISTANT PROFESSORS • Failer, Farnsworth, Henderson, Jackson, Larimore, McKillop, Mosher, Rahier, Ramphall, Stevens, Stone
INSTRUCTORS • Braun, Manhein

ADJUNCT FACULTY • Dakin, Detro, Easterly, Emmer, Hochberg, Kuthuff, Lyon, Quattrochi, Robbins, Saunders

Approved "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education biological and physical sciences, literature, mathematics, and social sciences requirements.

*Students choosing French, German, or Spanish as their foreign language will take four to eight hours their freshman year, depending on placement, and six hours in the sophomore year. Some adjustment in elective hours may be necessary.

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

FRESHMAN YEAR

SEM. HRS.

English 1000/1001, 1002 ........................................... 6
Foreign language courses* ...................................... 10
Geography 1001, 1003 ........................................... 6
Mathematics 1020/1021 or 1029 ................................ 3
General education biological or physical sciences (two-semester lecture sequence with corresponding labs) ........ 8

SOPHOMORE YEAR

SEM. HRS.

Foreign language (through 2053 or 2102)* ................. 3
Geography 2050, 2051, 2055 ................................... 9
General education biological or physical sciences (one-semester lecture in alternate science)** ......... 3
General education analytical reasoning course ........... 3
Approved literature courses .................................... 6
Approved electives or ROTC .................................. 7

JUNIOR YEAR

SEM. HRS.

Geography 2039, 4019, 4020, 4040, 4041, 4043, 4044, 4045, 4047, 4049, (select three) ...................... 31
General education arts course (select from art, music, philosophy, theatre) ...................................... 3
Approved history electives .................................... 6
General education humanities course (other than English or foreign language) .................................. 3
Approved electives .................................................. 11

SENIOR YEAR

SEM. HRS.

Anthropology 4051, Geography 4001, 4025, 4031, 4032, 4035, 4050, or 4052 .......................... 3
Geography 4012, 4060, 4073, 4077, 4086 (select two) ........................................... 6
Geography 3999 ................................................... 1
General education humanities courses ......................... 6
Approved social sciences courses (two fields other than history or foreign language) ......................... 9
Approved electives .................................................. 7

CURRICULUM IN GEOGRAPHY (B.S. DEGREE)

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 biological and physical sciences, literature, mathematics, and social sciences requirements.

*Students choosing French as their foreign language will take four to eight hours their freshman year, depending on placement, and six hours in the sophomore year. Some adjustment in elective hours may be necessary.

CURRICULUM IN GEOGRAPHY (B.A. DEGREE)

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 biological and physical sciences, literature, mathematics, and social sciences requirements.

*Students choosing French, German, or Spanish as their foreign language will take four to eight hours their freshman year, depending on placement, and six hours in the sophomore year. Some adjustment in elective hours may be necessary.
**If sequence is taken in biological sciences, then the alternate science should be in the physical sciences category, and vice versa.**

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1000/1001, 1002</td>
<td></td>
</tr>
<tr>
<td>Foreign language courses*</td>
<td>10</td>
</tr>
<tr>
<td>Geography 1001, 1002</td>
<td></td>
</tr>
<tr>
<td>Mathematics 1020/1021</td>
<td>3</td>
</tr>
</tbody>
</table>
| General education biological or physical sciences (two-semester lecture sequence with corresponding labs) | 8

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign language (through 2033 or 2102)*</td>
<td></td>
</tr>
<tr>
<td>Geography 2050, 2051, 2055</td>
<td></td>
</tr>
<tr>
<td>Mathematics 1022</td>
<td></td>
</tr>
</tbody>
</table>
| General education humanities or physical sciences (one semester lecture in alternate science)** | 3
| Approved literature courses                 |           |
| Approved electives or ROTC                  | 6         |

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geography 2039, 4019, 4020, 4040, 4041, 4043, 4044, 4045, 4047, 4048, 4049 (select three)</td>
<td>9</td>
</tr>
<tr>
<td>General education arts course (select from art, music, philosophy, theatre)</td>
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<tr>
<td>General education humanities course (other than English or foreign language)</td>
<td>3</td>
</tr>
<tr>
<td>Approved history electives</td>
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<td>11</td>
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</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Geography 4013, 4014, 4017, 4018, 4021, 4022, 4024, 4028, 4029, 4070, 4082, 4083, 4085 (select three)</td>
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</tr>
<tr>
<td>General education humanities courses</td>
<td>6</td>
</tr>
<tr>
<td>Approved social sciences courses (two fields other than history or foreign language)</td>
<td>9</td>
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<tr>
<td>Approved electives</td>
<td>7</td>
</tr>
</tbody>
</table>

**CURRICULUM IN ANTHROPOLOGY**

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Foreign language (through 2055 or 2105)*</td>
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</tr>
<tr>
<td>General education biological or physical sciences**</td>
<td>3</td>
</tr>
<tr>
<td>General education analytical reasoning course</td>
<td>3</td>
</tr>
<tr>
<td>Approved anthropology electives</td>
<td></td>
</tr>
<tr>
<td>Approved history electives</td>
<td>6</td>
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<tr>
<td>Approved literature courses</td>
<td></td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>7</td>
</tr>
</tbody>
</table>

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Approved anthropology electives</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives</td>
<td></td>
</tr>
<tr>
<td>General education course (select from art, music, philosophy, theatre)</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities course</td>
<td>3</td>
</tr>
</tbody>
</table>
| Approved social sciences courses (at least 3 sem. hrs. in fields other than anthropology or history) | 9

**CURRICULUM IN HISTORY**

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Approved history course</td>
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<tr>
<td>Approved electives</td>
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**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Approved anthropology electives</td>
<td>9</td>
</tr>
<tr>
<td>Anthropology 3999</td>
<td></td>
</tr>
<tr>
<td>General education humanities course</td>
<td>3</td>
</tr>
<tr>
<td>General education social sciences electives</td>
<td>9</td>
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<tr>
<td>Approved electives</td>
<td>10</td>
</tr>
</tbody>
</table>

**DEPARTMENT OF HISTORY**

CHAIR - Loveland, T. Harry Williams Professor of American History

OFFICE - 224 Himes Hall

TELEPHONE - (504) 388-4471

BOYD PROFESSORS - Cooper, Royster

T. HARRY WILLIAMS PROFESSOR OF AMERICAN HISTORY - Loveland

ALUMNI PROFESSORS EMERITI - Loos, Noggle

PROFESSORS - Cooper, Colburn, Hardy, Henderson, Hilton, Hoffman, Loveland, Martin, Owen, Roider, Royster

ASSOCIATE PROFESSORS - Becker, Carleton, Crump, Foster, Goodman, Lindenfield, Lipscomb, Paskoff, Rogers, Stater, Veldman

ASSISTANT PROFESSORS - DeVore, Graham, Kooi, Shindo

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 B.A. 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 M.A. and Ph.D. degrees. The Southern Illinois University's "Source Studies in Southern History" are edited by faculty members of the Department of History.

**CURRICULUM IN HISTORY**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students majoring in history must complete 33 semester hours, including History 1001, 1003, 2035, 2057, and at least 15 semester hours in history courses numbered 3000 or above. No more than 9 of the 15 hours may be taken in any one of the following general subject areas: U.S. History, European History, and World History (Latin America, East Asia, Africa, and the Middle East). Fundamental courses in economics, literature, foreign languages, geography, political science, psychology, and sociology are also recommended. Consult &quot;Degree Requirements of the College&quot; in this section of the catalog for specific instructions regarding electives and the general education biological and physical sciences, literature, mathematics, and social sciences requirements. Students choosing French, German, or Spanish as their foreign language will take four to eight hours their freshman year.**</td>
<td>128</td>
</tr>
</tbody>
</table>
depending on placement, and six hours in the sophomore year. Some adjustment in elective hours may be necessary.  

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

TOTAL SEM. HRS. * 128-132

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**LIBERAL ARTS (INTERCOLLEGIATE PROGRAM)**

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 art history, studio art, mass communication, and music. Information concerning requirements in these areas of concentration may be obtained from the dean's office.

**CURRICULUM IN LIBERAL ARTS**

*Students choosing French, German, or Spanish as their foreign language will take four to eight hours in the freshman year, depending on placement, and six hours in the sophomore year. Students with no prior study in a language will have to extend the language sequence into the junior year. Some adjustment in elective hours may be necessary.**

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

**English Linguistics—English 4018, 4019, 4020.**

Information concerning the Master of Arts and Ph.D. degrees with majors in linguistics can be found in the Graduate Bulletin.

**DEPARTMENT OF MATHEMATICS**

**CHAIR** • Rutherford, Professor  
**OFFICE** • 301 Lockett Hall  
**TELEPHONE** • (504) 388-1665  
**FAX** • (504) 388-4276

**NICHOLSON PROFESSOR OF MATHEMATICS** • Conner

**PROFESSORS** • Adkins, Conner, Cordes, Delzell, Dorroh, Faboe, Gilmer, J. Goldstein, Hildebrandt (Associate Chair for Instruction), Hurrelbrink, Kuo, Lawson, Lax, Litherland, McGehee, Noble, Oxley, Perlis, Rutherford, Richardson (Director of Graduate Studies), Stoltzfus, Weintrab, Weis

**ASSOCIATE PROFESSORS** • Cygan, Davidson, Ferreyra, G. Goldstein, Hoffman, Lisan, Madden, Morales, Naubrander, Olkin, Smolinsky, Sundar

**ASSISTANT PROFESSORS** • Chari, Cochran, Ding, Oporowski, Sengupta, Tom, Van Wamelen, Vertigen, P. Wolsens

**INSTRUCTORS** • Avtry, Britt, Christie, Clement, Cooper, Dwyer, Egady, Forrest, Fritsche, Herrmann, Kashi, Kostenski, Lawson, McAnelly, McMills, Neal, Parke, Plaisance, Ramsey, House, Suh, Tultos, Vaughn, Vidrine, White, Winslow, M. Wolenski, Zobrist

Students majoring in mathematics may choose either a mathematics or a computer science concentration. A minimum of 34 semester hours in mathematics courses including Mathematics 1550 (or 1551), 1552 (or 1553), 2057 (or 2058), 2040, and 2085 (or 2086), plus courses as specified below to fulfill the chosen concentration are required.

Students selecting the computer science concentration must have a grade-point average of 2.00 in all mathematics and computer science courses, as well as in all mathematics courses, to be eligible for a bachelor's degree. Degree credit for mathematics courses numbered below 1550 will not be allowed for mathematics majors.

All students majoring in mathematics are advised to include some computer science courses in their electives. Those students planning to do graduate work in mathematics are advised to include those mathematics courses specifically required for the mathematics concentration.

The requirements for a minor in mathematics are as follows: Mathematics 1550 (or 1551), 1552 (or 1553), 2057 (or 2058), and 2085 (or 2086 or 2070 or 2090) plus three 4000-level courses not including Mathematics 4005.

No student may receive more than nine semester hours of credit in mathematics courses numbered below 1550, with the following exception: students pursuing the degree in elementary education—Achievers Program and following the 12-hour sequence specified in that curriculum. No student who has already received credit for a mathematics course numbered 1550 or above may be registered in a mathematics course numbered below 1550.
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. In regard to the natural sciences, the Department of Mathematics requires a minimum of one-year course (six semester hours) with two hours of accompanying laboratory in either the biological or physical sciences. Six additional hours must also be completed in the alternate sciences for a total of 14 hours. *Students choosing French, German, or Spanish as their foreign language will take four to eight hours in the freshman year, depending on placement, and six hours in the sophomore year. Some adjustment in elective hours may be necessary. **It is possible to simultaneously satisfy the literature requirement and this general education requirement (see junior year).

FRESHMAN YEAR SEM. HRS.
English 1000/1001, 1002 .......................... 6
Mathematics 1550, 1552 .......................... 10
General education biological or physical sciences (one science with 2 sem. hrs. of lab) ....... 6-8
Total: .................................................. 32-34

SOPHOMORE YEAR SEM. HRS.
Foreign language (through 2053 or 2102)* .......... 3
Mathematics 2040, 2057, 2085 ........................ 9
General education biological or physical sciences (one science with 2 sem. hrs. of lab) ....... 6-8
Approved history electives .......................... 6
Approved literature courses .......................... 6
Total: .................................................. 30-32

JUNIOR YEAR SEM. HRS.
Mathematics 4031, 4032, 4200 ........................ 9
General education arts course (select from art, music, philosophy, theatre) ........................ 3
General education humanities courses .............. 6
General education biological or physical sciences courses (two fields other than history) ....... 6
Approved electives .................................. 7
Total: .................................................. 31

SENIOR YEAR SEM. HRS.
Mathematics 4027, 4036, 4039, 4055, 4065, 4066, 4171, 4181, 4201, 4325, 4340, 4345, 4999
(specific the selection) ......................... 6
Approved humanities course (other than English or foreign language) .................. 3
Approved natural sciences course ................. 3
Approved social sciences elective ............... 3
Approved electives .................................. 10
Total: .................................................. 33

CURRICULUM IN MATHEMATICS (COMPUTER SCIENCE AREA OF CONCENTRATION)

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 literature and social sciences requirements. In regard to the natural sciences, the Department of Mathematics requires a minimum of one-year course (six semester hours) with two hours of accompanying laboratory in either the biological or physical sciences. Six additional hours must also be completed in the alternate sciences for a total of 14 hours.

*Students choosing French, German, or Spanish as their foreign language will take four to eight hours in the freshman year, depending on placement, and six hours in the sophomore year. Some adjustment in elective hours may be necessary.

**It is possible to simultaneously satisfy the literature requirement and this general education requirement (see junior year).

FRESHMAN YEAR SEM. HRS.
English 1000/1001, 1002 .......................... 6
Foreign language (through 2053 or 2102)* .......... 3
Mathematics 1550, 1552 .......................... 10
General education biological or physical sciences (one science with 2 sem. hrs. of lab) ....... 6-8
Total: .................................................. 32-34

SOPHOMORE YEAR SEM. HRS.
Computer Science 1250, 1251 ........................ 6
Foreign language (through 2053 or 2102)* .......... 3
Mathematics 2040, 2057, 2085 ........................ 9
General education biological or physical sciences (one science with 2 sem. hrs. of lab) ....... 6-8
Approved literature courses .......................... 6
Approved electives or ROTC ....................... 1
Total: .................................................. 31-33

JUNIOR YEAR SEM. HRS.
Mathematics 2065 or 4027 .......................... 3
Mathematics 4023, 4055 ............................ 6
Computer Science 2252 ............................ 3
Computer Science 2262 ............................ 3
Approved history electives .......................... 6
Approved electives or ROTC ....................... 1
Total: .................................................. 31

SENIOR YEAR SEM. HRS.
Mathematics 4024, 4025, 4056, 4065, 4066, 4171, 4172, 4181, 4201, 4325, 4340, 4470 (select two) ......... 6
Approved computer science electives
selected from 2280 and courses above 3000 .......................... 6
General education humanities course (other than English or foreign language) ........................ 3
General education social sciences courses (two fields other than history) .................. 6
Approved electives .................................. 8
Total: .................................................. 52

DEPARTMENT OF MILITARY SCIENCE

HEAD • Logan, Professor
OFFICE • 106 Military Science/Aerospace Studies Building
TELEPHONE • (504) 388-2371

PROFESSORS • Logan
ASSISTANT PROFESSORS • Ducota, Huskay, Vasquez

INSTRUCTORS • Boggan, Porter

For information on this department’s program, see the “Reserve Officers Training Corps” section of this catalog.

Army ROTC Scholarships • Four-year scholarships for entering freshmen desiring careers as Army officers are offered. Two- and three-year on-campus scholarships are available also. See the ROTC chapter and the chapter concerning financial aid and scholarships in this catalog for additional information.

DEPARTMENT OF PHILOSOPHY

CHAIR • Henderson, Professor
OFFICE • 106 Coates Hall
TELEPHONE • (504) 388-2220

PROFESSORS • Bigger, Harned, Henderson, Schulzeid, Shirley, Shirridge, Whitaker
ASSOCIATE PROFESSORS • Baker (Assistant Chair for Graduate Studies), Carroll, Irvine (Assistant Chair for Religious Studies), Sarkar, Sutherland
ASSISTANT PROFESSORS • Bargeron, Jones, Payne, Yin

INSTRUCTORS • Fitzgerald, Sommers

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 provides background for further study in law, computer science, history, linguistics, 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. The ethics courses are especially recommended for students in business, education, engineering, mass communication, prelaw, premedicine, nursing, and other health related fields. See course descriptions for details.

A minor in philosophy requires 15 hours of philosophy, at least six of which must be at the 3000/4000 level.

A minor in religious studies requires 15 semester hours of REL courses, including at least 3 hours in each of the following areas:

- Western Religions (Christianity or Judaism)
- Eastern Religions (Non-western religions)
- Theoretical Religion.
Several REL courses are cross-listed with other departments. These courses should be taken under the REL rubric, if they are to count toward the 27 hours needed for the concentration or toward the 15 hours needed for the minor.

Students interested in careers in law and government should consult with the department undergraduate or prelaw counselor.

Honor's work is provided through Political Science 2052, 3000, 3896, and 3597. A special curriculum leading to the B.A. with departmental honors in political science is offered. Details are available from the departmental office.

**CURRICULUM IN POLITICAL SCIENCE**

**TOTAL SEM. HRS. • 128**

Students must elect a concentration in either philosophy or religious studies.

Students concentrating in philosophy are required to complete 30 hours, including PHIL 2010 or 4010, 2020 or 4943, 2033 and 2035, plus 18 hours of electives. At least 15 of the 30 hours of philosophy must be in courses numbered 3000 and above, and at least 6 of the 15 must be at the 4000 level. Degree credit will not be allowed for more than 6 hours of courses numbered below 2000.

Students concentrating in religious studies must complete a minimum of 27 semester hours of religious studies (REL) courses, including at least 15 hours in REL courses numbered 3000 and above. The 27 hours must include a minimum of 3 hours in each of the following areas:

- Christianity—REL 1005, 1006, 2005, 2201, 3005, 3051, 3012, 4005, 4006, 4011, 4012, 4051, 4161, 4227, 4928.
- Judaism—REL 2101, 3101; also 3010 when the topic is appropriate.
- Non-western Religions—REL 2027, 3130, 3600, 4191, 4800.
- Theoretical Religion—REL 2028, 3028, 3201, 4031, 4228, 4300, 4350, 4944.

Consult “Degree Requirements of the College” in this section of the catalog for specific instructions regarding electives and the general education biological and physical sciences, mathematics, and social sciences requirements.

*Students choosing French, German, or Spanish as their foreign language will take four to eight hours in the freshman year, depending on placement, and six hours in the sophomore year. Students with no prior language study will have to extend the language sequence into the junior year. Some adjustment in elective hours may be necessary.

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

**FRESHMAN YEAR**

**SEM. HRS.**

English 1001/1000, 1002 .......................... 6
Foreign language courses* .................................. 10
General education biological or physical sciences (two-semester lecture sequence with corresponding labs) .......................................................... 8
Mathematics 1020/1021 or 1029 .......................... 3
Approved electives (may be in area of concentration) .................. 5

**Total** .......................... 32

**Sophomore Year**

**SEM. HRS.**

Foreign language (through course 2055 or 2155)* .................. 6

**Area of concentration courses/electives** .......................... 6
General education biological or physical sciences (one semester lecture in alternate science)** .................. 3
Approved history courses ........................................ 6
Approved literature courses ......................................... 6
Approved electives (may be in area of concentration) .................. 3

**Total** .......................... 30

**Junior Year**

**SEM. HRS.**

Area of concentration courses .......................... 9
General education analytical reasoning course .......................... 3
General education arts course (select from art, music, philosophy, theatre) .......................................................... 3
General education social sciences courses (two fields other than history) .......................................................... 6
Approved electives .......................... 12

**Total** .......................... 33

**Senior Year**

**SEM. HRS.**

Area of concentration courses ........................................ 9-12
Approved social sciences elective .......................... 3
Approved electives ........................................ 21-18

**Total** .......................... 33

**DEPARTMENT OF POLITICAL SCIENCE**

Chair • Eubanks, Alumni Professor

Office • 240 Stubbs Hall

Telephone • (504) 388-2141

Fax • (504) 388-2540

ALUMNI PROFESSOR • Eubanks

R. DOWNS POINDEXTER PROFESSOR • Wittkop

PROFESSOR EMERITUS • Crabb

PROFESSORS • Arango, Bolner, Campbell, Eubanks, Garand, Mulcahy, Rice, Sandoz, Wittkop

ASSOCIATE PROFESSORS • Gasiorowski, Parent, Stoner

ASSISTANT PROFESSORS • Arp, Boeckelman, Clark, Haynie, Kenny, Power, Schaefer

The requirements for a minor in political science are Political Science 2051 and 15 additional hours in political science; six of the 18 hours in political science must be at the 3000 level or above.

Students majoring in political science must complete a minimum of 33 semester hours in political science courses, of which a minimum of 18 hours must be in courses numbered 3000 and above. Political science courses are divided into four fields: (1) American government and politics; (2) comparative government and politics; (3) international politics and law; and (4) political theory.

Political science course work must be distributed among these fields as follows: 12 hours in one field; 6 hours in each of two additional fields; and 9 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 1101, 2001, 3060, 3090, 3909, and 4100 may not be counted toward fulfilling field distribution requirements, but may be counted as political science electives.

Although some courses are cross-listed in more than one field, no course can be accepted for credit in more than one field. Political Science 2051 is required for all undergraduate majors.

**Criminology and Justice Studies**

**SEM. HRS.**

Approved political science electives .......................... 9
Approved humanities course (other than English or foreign language) .......................................................... 3
Approved history course ........................................ 3
Approved social sciences course .................................. 3
Approved social sciences courses (3 hrs. in one field other than history or political science) .......................... 6
Approved electives ........................................ 8

**Total** .......................... 32

**Senior Year**

**SEM. HRS.**

Approved political science electives .................................. 12
General education arts course (select from art, music, philosophy, theatre) .......................................................... 3
DEPARTMENT OF PSYCHOLOGY

Chair • Lane, Professor
OFFICE • 329A Prentice Hall
TELEPHONE • (504) 988-8745

BOYD PROFESSOR EMERITUS • Riopelle
PROFESSOR EMERITUS • Dreyer
PROFESSORS • Baumister, Blouin, Geer, Gottfried, Kelley, Magill, Matthews, Matson, Seay, Waters, Williamson, Witt
ASSOCIATE PROFESSORS • Advokat, Coon, Geiselman, Gouvier, Hawkins, McDonald, Prestholdt, Steiner
ASSISTANT PROFESSORS • Bornstein, Cherry, Gilliland, LeCompte, Northup, Volmer
INSTRUCTORS • Braverman, Buckley
ADJOINT FACULTY • Brantley, Comaty, Culross, Gammel, Garrett, Jones, Lipscomb, McAllister, Moore, Mouton-Simien, Scott, Sevin

Admission to a curriculum in the Department of Psychology requires that a student be admissible to the College of Arts & Sciences and have a grade-point average of 2.50 or above in all work taken within the LSU system and on all work taken overall. Students majoring in psychology must take Psychology 2000, 2011, 2017, and 4008. Students completing the B.A. degree must complete one course in each of two core areas listed below and 12 additional hours of psychology courses from the core areas or from the additional electives listed below. Students completing the B.S. degree 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 30-credit minimum of required psychology credits, but may apply toward credits for graduation.

It is recommended that students intending to pursue graduate study complete the B.S. requirements. A student must complete the following 15 hours to graduate with a minor in psychology: Psychology 2000—three hours; two courses from core areas listed below; two courses from core areas or additional electives listed below—six hours.

- **Basics (required of all majors):** PSYC 2000 or 2001; 2011; 2017; 4008.
- **Core Areas (B.A. students must complete a course from two areas; B.S. students must complete a course from four areas):**
  a. **Advanced Methods:** PSYC 3018 or 3020, 4141
  b. **Biological Basis:** PSYC 4031 or 4034 or 4038
  c. **Learning and Cognition:** PSYC 4030 or 4032 or 4033
  d. **Developmental Processes:** PSYC 4036 or 4070 or 4072
  e. **Applied/Social:** PSYC 3050 or 3140 or 3083 or 4050.
- **Additional Electives:** PSYC 2040, 3033, 3081, 3082, 4035, 4040.
- **Excluded Electives:** PSYC 2004, 2060, 2070, 2076, 2078, 2999, 4160, 4176, 4178,

4999. These courses will not count toward the 30 hours required in the major, but are permissible electives above the 30-hour minimum. Students choosing the honors option will enroll in three to six hours of 4999, in addition to the 30 hours required in the major.

CURRICULUM IN PSYCHOLOGY (B.A. DEGREE)

**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 literature, mathematics, and social sciences requirements. In regard to the general sciences, the Department of Psychology requires a minimum of a year course (six semester hours) with two hours of accompanying laboratory in either the biological or physical sciences. Six additional hours must also be completed in the alternate sciences for a total of 14 hours.

*Students choosing French, German, or Spanish as their foreign language will take four to eight hours in the freshman year, depending on placement, and six hours in the sophomore year. Some adjustment in elective hours may be necessary.

FRESHMAN YEAR SEM. HRS.

<table>
<thead>
<tr>
<th>Course</th>
<th>HRS.</th>
</tr>
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<tbody>
<tr>
<td>English 1000/1001, 1002</td>
<td>6</td>
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<tr>
<td>Foreign language courses*</td>
<td>10</td>
</tr>
<tr>
<td>Mathematics 1020/1021 or 1029</td>
<td>5</td>
</tr>
<tr>
<td>Psychology 2000</td>
<td>3</td>
</tr>
<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
</tr>
<tr>
<td>Approved elective or ROTC</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>31-33</td>
</tr>
</tbody>
</table>

SOHOMORE YEAR SEM. HRS.

<table>
<thead>
<tr>
<th>Course</th>
<th>HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign language (through 2003 or 2102)*</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 2011</td>
<td>3</td>
</tr>
<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
</tr>
<tr>
<td>General education reasoning course</td>
<td>3</td>
</tr>
<tr>
<td>Approved history elective</td>
<td>3</td>
</tr>
<tr>
<td>Approved psychology elective</td>
<td>3</td>
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<tr>
<td>Approved literature courses</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>31-33</td>
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JUNIOR YEAR SEM. HRS.

<table>
<thead>
<tr>
<th>Course</th>
<th>HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psychology 2017, 4008</td>
<td>6</td>
</tr>
<tr>
<td>Approved psychology electives</td>
<td>3</td>
</tr>
<tr>
<td>Approved history course</td>
<td>3</td>
</tr>
<tr>
<td>General education arts course (select from art, music, philosophy, theatre)</td>
<td>3</td>
</tr>
<tr>
<td>Approved humanities course (other than English or foreign language)</td>
<td>3</td>
</tr>
<tr>
<td>General education social sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>32</td>
</tr>
</tbody>
</table>

SENIOR YEAR SEM. HRS.

<table>
<thead>
<tr>
<th>Course</th>
<th>HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approved psychology electives</td>
<td>9</td>
</tr>
<tr>
<td>Approved social sciences courses (3 hrs. other than history or psychology)</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>32</td>
</tr>
</tbody>
</table>

CURRICULUM IN PSYCHOLOGY (B.S. DEGREE)

**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 literature, mathematics, and social sciences requirements. In regard to the general sciences, the Department of Psychology requires a minimum of a year course (six semester hours) with two hours of accompanying laboratory in either the biological or physical sciences. Six additional hours must also be completed in the alternate sciences for a total of 14 hours.

*Students choosing French, German, or Spanish as their foreign language will take four to eight hours in the freshman year, depending on placement, and six hours in the sophomore year. Some adjustment in elective hours may be necessary.

FRESHMAN YEAR SEM. HRS.

<table>
<thead>
<tr>
<th>Course</th>
<th>HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1000/1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1020/1021; 1431 or 1022</td>
<td>6</td>
</tr>
<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>31-33</td>
</tr>
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SOHOMORE YEAR SEM. HRS.

<table>
<thead>
<tr>
<th>Course</th>
<th>HRS.</th>
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</thead>
<tbody>
<tr>
<td>Foreign language (through 2053 or 2102)*</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 2000, 2011</td>
<td>3</td>
</tr>
<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
</tr>
<tr>
<td>General education analytical reasoning course</td>
<td>3</td>
</tr>
<tr>
<td>Approved history elective</td>
<td>3</td>
</tr>
<tr>
<td>Approved psychology elective</td>
<td>3</td>
</tr>
<tr>
<td>Approved literature courses</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>31-33</td>
</tr>
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</table>

JUNIOR YEAR SEM. HRS.

<table>
<thead>
<tr>
<th>Course</th>
<th>HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psychology 2017, 4008</td>
<td>6</td>
</tr>
<tr>
<td>Approved psychology electives</td>
<td>6</td>
</tr>
<tr>
<td>Approved history course</td>
<td>3</td>
</tr>
<tr>
<td>General education arts course (select from art, music, philosophy, theatre)</td>
<td>3</td>
</tr>
<tr>
<td>Approved humanities course (other than English or foreign language)</td>
<td>3</td>
</tr>
<tr>
<td>General education social sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>32</td>
</tr>
</tbody>
</table>

SENIOR YEAR SEM. HRS.

<table>
<thead>
<tr>
<th>Course</th>
<th>HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>General education humanities courses</td>
<td>6</td>
</tr>
<tr>
<td>Approved psychology electives</td>
<td>12</td>
</tr>
<tr>
<td>Approved electives</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>32</td>
</tr>
</tbody>
</table>

RUSSIAN AREA STUDIES (INTER-DEPARTMENTAL PROGRAM)
A minor in Russian Area Studies consists of at least 18 hours in the courses listed in the junior and senior years of the Russian Area Studies curriculum, including at least one course each in Russian, political science, history, and economics. Six hours must be at the 3000 and/or 4000 level. Only one course in the student's major field may be counted toward the minor in Russian Area Studies.

CURRICULUM IN RUSSIAN AREA STUDIES

TOTAL SEM. HRS. • 128

Students planning to enter graduate school in a subject other than Russian area studies (e.g., economics, political science, history, Russian language and literature) are advised to complete 24-33 hours in that subject. Consult “Degree Requirements of the College” in this section of the catalog for specific instructions regarding electives and the general education biological and physical sciences, literature, mathematics, and social sciences requirements.

*Students choosing French, German, or Spanish as their foreign language will take four to eight hours in the freshman year, depending on placement, and six hours in the sophomore year. Some adjustment in elective hours may be necessary.

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

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1001/1001, 1002</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1020/1021 or 1029</td>
<td>6</td>
</tr>
<tr>
<td>Russian 1001, 2051</td>
<td>10</td>
</tr>
<tr>
<td>General education analytical</td>
<td>3</td>
</tr>
<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>8</td>
</tr>
<tr>
<td>Approved elective or ROTC</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL SEM. HRS. • 128</td>
<td>33</td>
</tr>
</tbody>
</table>

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 2010, 2020; or 2030</td>
<td>3-6</td>
</tr>
<tr>
<td>Approved literature courses</td>
<td>6</td>
</tr>
<tr>
<td>Russian 2053, 2055</td>
<td>6</td>
</tr>
<tr>
<td>Approved humanities course</td>
<td>3</td>
</tr>
<tr>
<td>General education biological or physical sciences (one course in alternate science)</td>
<td>3</td>
</tr>
<tr>
<td>General education arts course (select from art, music, philosophy, theatre)</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives and other ROTC</td>
<td>4-7</td>
</tr>
<tr>
<td>TOTAL SEM. HRS. • 128</td>
<td>31</td>
</tr>
</tbody>
</table>

JUNIOR/SENIOR YEARS

Competition of 30 semester hours from the courses listed below in four subjects. A minimum of 15 hours must be taken in one subject, at least six hours in two others, and at least 15 hours of credit.

DEPARTMENT OF SOCIOLOGY

CHAIR • Singelmann, Professor
OFFICE • 128 Stubbs Hall
TELEPHONE • (504) 388-1645

PROFESSORS • Bankston, Desener, Feld, Jenkins, Singelmann, Tolbert
ASSOCIATE PROFESSORS • Durant, Grimes, Hurlbert, Ohlendorf, Shrum, Suitor, Weil, Wotkiewicz
ASSISTANT PROFESSORS • Baggs, Donato, Grattet, Kamo, Robinson, Shifadah, Zhou

Functions of the department are to conduct teaching and research in the College of Arts & Sciences and the Graduate School, to provide undergraduate degree programs in sociology 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 the professional preparation of undergraduates in the Colleges of Arts & Sciences and Agriculture and development 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.

A special program leading to the B.A. degree with departmental honors in sociology is also offered. Detailed information is available from the departmental office.

The Bachelor of Science degree with a major in rural sociology, as well as a rural sociology minor, are offered through the College of Agriculture. Curricular requirements for these degrees and minor are shown in the “College of Agriculture” section of this catalog.

CURRICULUM IN SOCIOLOGY

TOTAL SEM. HRS. • 128

A grade of “C” or higher must be earned in Sociology 2001, 2201, 2211, and 3101. At least one course at the 3000 level or above must be selected from each of the five major content areas: social organization, social institutions, social issues, social interaction, and population and ecology.

Sociology majors are strongly advised to schedule all College of Arts & Sciences and departmental lower-level requirements in their first two years.

Consult “Degree Requirements of the College” in this section of the catalog for specific instructions regarding electives and the general education biological and physical sciences, literature, mathematics, and social sciences requirements. A certain course may satisfy general education, college, and/or departmental requirements.

*Students choosing French, German, or Spanish as their foreign language will take four to eight hours in the freshman year, depending on placement, and six hours in the sophomore year. Some adjustment in elective hours may be necessary.

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

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1001/1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Foreign language courses*</td>
<td>10</td>
</tr>
<tr>
<td>Mathematics 1020/1021</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 2001</td>
<td>3</td>
</tr>
<tr>
<td>General education biological and physical sciences (one semester lecture in alternate science)**</td>
<td>3</td>
</tr>
<tr>
<td>General education biological or physical sciences (two-semester lecture sequence with corresponding labs)</td>
<td>8</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL SEM. HRS. • 35</td>
<td>35</td>
</tr>
</tbody>
</table>

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sociology 3101</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 3501, 3505, 4511, 4521, 4531, 4551, 4601</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 3601, 3605, 4601, 4611, or 4621 (select one)</td>
<td>3</td>
</tr>
<tr>
<td>General education course (select from art, music, philosophy, theatre)</td>
<td>3</td>
</tr>
<tr>
<td>General education social sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Approved humanities electives (other than English or foreign language)</td>
<td>3</td>
</tr>
<tr>
<td>Approved social sciences elective (other than history or sociology)</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>9</td>
</tr>
<tr>
<td>TOTAL SEM. HRS. • 30</td>
<td>30</td>
</tr>
</tbody>
</table>

JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sociology 3401, 3411, 4321, 4331, 4341, or 4351 (select one)</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 4401, 4411, 4421, 4431, 4441, 4451, 4461, 4471, or 4481 (select one)</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 4701 or 4702</td>
<td>3</td>
</tr>
<tr>
<td>Approved sociology elective</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities courses</td>
<td>6</td>
</tr>
<tr>
<td>Approved social sciences electives</td>
<td>5</td>
</tr>
<tr>
<td>Approved electives</td>
<td>5</td>
</tr>
<tr>
<td>TOTAL SEM. HRS. • 28</td>
<td>28</td>
</tr>
</tbody>
</table>
Area of Concentration

- Criminology Area

A concentration in criminology is available by selecting the following courses: (1) SOCL 3371, 3501, and 4471 within their respective content areas; (2) SOCL 4461 as the approved sociology elective; and (3) POLI 4022 as the approved social sciences elective.

DEPARTMENT OF SPEECH COMMUNICATION

CHAIR • King, Professor
OFFICE • 138 Coates Hall
TELEPHONE • (504) 388-4172
FAX • (504) 388-4828
ALUMNI PROFESSOR • HopKins
PROFESSORS • King, Mixon, Peterson, Ragsdale
ASSOCIATE PROFESSORS • Edwards, Honeycutt, Zagacki
ASSISTANT PROFESSORS • Allen, Bowman, Cooper, Launton Bowman
INSTRUCTORS • Coates, Hebert

To graduate with a minor in speech communication, a student must earn a minimum of 15–18 hours in departmental courses, of which at least six semester hours must be in courses numbered above 3000.

The speech communication program has three areas—communication theory, performance of language, and rhetoric and public address. Students may choose a program in speech communication which combines all three areas or they may concentrate in one area.

Students in speech communication investigate communication processes as they occur within and among individuals, groups, organizations, and societies. They study interpersonal and nonverbal communication, public speaking, rhetorical criticism, history of public address, argumentation and persuasion, organizational communication, performance of literature, political communication, film, group discussion, and other aspects of communication.

Analytical and critical thinking skills are developed. Students learn to communicate more effectively and to understand as well as facilitate the communication of others. Career in law, government, teaching, social service, speech writing, public relations, broadcasting, and advertising all rely on the ability to communicate successfully.

Opportunities for extracurricular student participation include debate, discussion, and individual events. Several reading hours, as well as public performances, are presented each semester for those interested in the performance of literature.

CURRICULUM IN SPEECH COMMUNICATION

TOTAL SEM. HRS. • 128

Majors in the Department of Speech Communication must complete a minimum of 36 semester hours of approved electives in the department. At least 12 of these hours must be numbered 3000 or above. Students should contact a faculty counselor in the appropriate unit to decide on a program of approved electives.

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education biological and physical sciences, literature, mathematics, and social sciences requirements.

*Students choosing French, German, or Spanish as their foreign language will take four to eight hours in the freshman year, depending on placement, and six hours in the sophomore year. Students with no prior language study will have to extend the foreign language requirement into the junior year. Some adjustment in elective hours may be necessary.

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

FRESHMAN YEAR SEM. HRS.
English 1000/1001, 1002 ............................................. 6
Foreign language courses* ...................................... 3
Approved introductory departmental courses .............. 6
Approved general education biological or physical sciences (two-semester lecture sequence with corresponding labs) ....... 8

SOPHOMORE YEAR SEM. HRS.
Foreign language (through course 2055)* ....................... 6
General education analytical reasoning course ................. 3
General education biological or physical sciences (semester lecture in alternate science)** ..................... 3
Approved literature courses ....................................... 6
Approved departmental electives ............................... 6
Approved electives or ROTC ...................................... 2

JUNIOR YEAR SEM. HRS.
Approved history electives ....................................... 6
Approved departmental electives ............................... 12
General education humanities course ......................... 3
Approved science electives ............................... 6
Approved electives .................................................. 12

SENIOR YEAR SEM. HRS.
Approved departmental electives ............................... 12
General education arts course (select from art, music, philosophy, theatre) .......................... 3
General education biological or physical sciences (two fields other than history) ......................... 3
Approved electives .................................................. 11

DEPARTMENT OF THEATRE

CHAIR • Harbin, Professor
TELEPHONE • (504) 388-4174
ALUMNI PROFESSOR • Doby
PROFESSORS • Dennis, Harbin, Kyle
ASSOCIATE PROFESSORS • Acampora, Anderson, Euba, Tandberg
ASSISTANT PROFESSORS • R. Davis, Wade, Woods
PROFESSIONAL-IN-RESIDENCE • A. Davis

As is appropriate for a component in the College of Arts & Sciences, the Department of Theatre maintains the liberal arts tradition in its baccalaureate degree program. This program provides a strong background for specialization as artists or scholars in theatre, as well as for other professional vocations. The department also provides a cultural resource for the University and an opportunity for students majoring in other areas to participate in theatre productions. During the academic year, LSU Theatre produces six major productions directed by faculty and guest artists in the University Theatre or Theatre 150, as well as student-directed workshop productions.

CURRICULUM IN THEATRE

TOTAL SEM. HRS. • 128

Majors in the Department of Theatre must complete a minimum of 37 semester hours of THTR 1025, 2022, 2023, 2025, 2026, 2027, 2028, 3121, 3122, 4024, and three hours of dramatic literature at the 4000 level (THTR 4120, 4121, or 4130). In addition to 31 hours of core courses, students must complete six additional hours (two-three-hour courses) from theatre electives at the 4000 level. Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education biological and physical sciences, literature, mathematics, and social sciences requirements.

*Students choosing French, German, or Spanish as their foreign language will take four to eight hours in the freshman year, depending on placement, and six hours in the sophomore year. Students with no prior language study will have to extend the foreign language requirement into the junior year. Some adjustment in elective hours may be necessary.

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

FRESHMAN YEAR SEM. HRS.
English 1000/1001, 1002 ............................................. 6
Foreign language courses* ...................................... 3
Mathematics 1020/1021 or 1029 .................................. 3
Approved introductory departmental courses .............. 6

SOPHOMORE YEAR SEM. HRS.
General education biological or physical sciences (semester lecture in alternate science)** ..................... 3
Approved literature courses ....................................... 6
Approved departmental electives ............................... 6
Approved electives or ROTC ...................................... 2

JUNIOR YEAR SEM. HRS.
Approved history electives ....................................... 6
Approved departmental electives ............................... 12
General education humanities course ......................... 3
Approved science electives ............................... 6
Approved electives .................................................. 12

SENIOR YEAR SEM. HRS.
Approved departmental electives ............................... 12
General education arts course (select from art, music, philosophy, theatre) .......................... 3
General education biological or physical sciences (two fields other than history) ......................... 3
Approved electives .................................................. 11
<table>
<thead>
<tr>
<th></th>
<th>SEM. HRS.</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>General education social sciences</td>
<td>6</td>
<td>Approved electives</td>
<td>6</td>
</tr>
<tr>
<td>courses (two fields other than history)</td>
<td></td>
<td>General education arts course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(select from art, music, philosophy)</td>
<td></td>
</tr>
<tr>
<td>Approved electives</td>
<td></td>
<td>General education humanities course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Approved social sciences electives</td>
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<td></td>
<td></td>
<td>Approved electives</td>
<td>12</td>
</tr>
<tr>
<td>SENIOR YEAR</td>
<td>32</td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>Theatre 4120, or 4121, or 4130</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approved departmental electives</td>
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<tr>
<td>General education arts course</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>(select from art, music, philosophy)</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

*LSU Theatre production, Joe Turner’s Come and Gone, February 1995.*
The College of Basic Sciences offers preparation for careers in biochemistry, chemistry, computer science, geology and geophysics, microbiology, physics and astronomy, plant biology, and zoology and physiology. It also provides students with strong academic backgrounds for professional study in medicine and dentistry and for many other careers that require in-depth study of science.

The departments within the college, the various curricula, and the degrees which 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 which provide premedical preparation, including curricula in biochemistry, basic chemistry with a life sciences concentration, computer science with a life sciences concentration, microbiology, physics, plant biology, and zoology.

Students who want to obtain knowledge and develop skills in two areas concomitantly in preparation for interdisciplinary careers should consider the "second area" concentrations in the Departments of Chemistry, Computer Science, and Geology & Geophysics, and the "second discipline" concentration in the Department of Physics & Astronomy.

The programs of the college are accredited by all the recognized national organizations concerned with such functions. 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 degree of Master of Science in Systems Science. 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

Junior Division 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.

Junior Division 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;
- 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 1002 with a grade of "C" or better;
- are eligible for MATH 1550.

Transfer students from other divisions of the University or from other accredited colleges or universities will be permitted to enter the college when they:

- present, by means of an official transcript, evidence that they have met the same requirements as students entering from Junior Division; and
- 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, EXTENSION, AND INTERSESSION CREDITS

Correspondence and extension credits 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 3 semester hours of credit during Intercession 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 • Nine semester hours including the second freshman composition course (English 1002, 1003, or 1005) and 6 hours chosen from 2000-level and above general education
## COLLEGE OF BASIC SCIENCES • UNDERGRADUATE DEGREES

<table>
<thead>
<tr>
<th>Departments</th>
<th>Curricula</th>
<th>Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemistry</td>
<td>Biochemistry</td>
<td>Bachelor of Science</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Chemistry</td>
<td>Bachelor of Science in Geology</td>
</tr>
<tr>
<td>Computer Science</td>
<td>Computer Science</td>
<td></td>
</tr>
<tr>
<td>Geology &amp; Geophysics</td>
<td>Geology</td>
<td></td>
</tr>
<tr>
<td>Microbiology</td>
<td>Microbiology</td>
<td></td>
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<td>Zoology &amp; Physiology</td>
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English courses or Honors 2002, 3001, 3003. Degree credit will not be allowed for English 1000/1001 or 1004.

**Mathematics** • A minimum of 5 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’s foreign language requirement by passing 8 to 10 semester hours in a single foreign language (ordinarily courses numbered 1001 and 1002, 1101 and 1102, or 1001 and 2051). Any classical or modern language may be chosen. Students who choose French may satisfy the requirement by taking FREN 1001 and 1002 (8 semester hours) or FREN 1050 (4 semester hours). Similarly, students who choose Spanish may take SPAN 1101 and 1102 (8 semester hours) or SPAN 1150 (4 semester hours). Students who choose German may take GERM 1101 and 1102 (8 semester hours); the additional hours, 2 or 6, 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 in item (1) above (in a language other than the student’s native language).
- By passing 9 hours in his or her native language courses that may be taken for credit by native speakers of the language.
- By passing 9 hours in other humanities, history, or political science courses approved by the dean. At least 3 hours must be at the 2000 level or above. These 9 hours must be taken at LSU. Courses specifically for international students (such as COMD 1051 and SOCL 1005) may not be used.

**Sciences** • Seventeen hours including two semesters of study in the biological sciences, a course in computer science (programming), 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. Twelve hours of the required social sciences/humanities courses must be chosen from the list of general education courses in the following way: 3 hours in the arts, 3 hours in the humanities, and 6 hours in the social sciences.

Following is a listing of the more important academic policies of the college offered to guide students toward degrees. Further information may be obtained from the pamphlet, “College Rules Regarding Courses Taken for Credit in the College of Basic Sciences,” available in the dean’s office.

- 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 128 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.
- 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. Courses used to satisfy these residence requirements must be passed with a grade of “C” or better.
- Independent study and correspondence courses may not be used to satisfy the college residence requirement. A maximum of 3 semester hours in research courses may be used in the 18-hour 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, option, and advanced sciences electives; and (3) English 1002, 1003, or 1005. 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 3 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 6 of the 12 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 6 semester hours.
- Students are expected to make reasonable and satisfactory progress in a degree program. Consequently, sequential scheduling 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 with the approval of the dean, 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.

### 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 15 semester hours of course work in a single department, of which at least 6 semester hours must be taken on this campus and at least 3 of the 6 hours must be at 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.

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. Interdisciplinary minors involving more than one department are ordinarily not approved.

PREMEDICAL AND PREDENTAL COUNSELING

A premedical/predental counselor is available to help students plan their undergraduate curricula and to assist with application to medical and dental schools. The application process for medical or dental school takes about one and one-half years to complete. Students are strongly advised to schedule an appointment with the premedical/predental counselor by the fall of the junior year to receive important information regarding the application process.

HIGH SCHOOL SCIENCE TEACHERS

For students interested in pursuing science careers in secondary teaching fields, the College of Education now offers only fifth-year certification programs at the graduate level. Students must first complete an undergraduate degree in their intended teaching field before entering the graduate program in education. The fifth-year education program leads to the master's degree and teacher certification.

Those interested in teaching as a career option should contact the dean's office for referral to a departmental adviser, or contact the College of Education, Office of Student Services, 256 Peabody Hall.

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 Basic Sciences**—By completing residence and academic requirements for two degree programs, a student may earn one bachelor of science degree with two majors. By completing residence and academic requirements, and earning 30 hours over the degree requiring the fewer number of hours, a student will earn two separate bachelor's degrees.

- **Dual enrollment in the College of Basic Sciences and a Second Academic College**—By completing residence and academic requirements for two degree programs and earning 30 hours more than the degree requiring the fewer number of hours, a student can earn two bachelor's degrees. The student must be accepted for admission to both colleges and must adhere to the regulations of both colleges. In addition, the student must declare a home college where registration will be initiated and permanent files maintained. It is the student's responsibility, however, to maintain contact with the second college to ensure that satisfactory progress is being made toward that degree.

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 germaine 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, the student's department chair, 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.

**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

Juniors with a gpa of 3.80 or higher and seniors with a gpa of 3.50 or higher are considered for membership in Phi Beta Kappa, the oldest scholastic honor society in the U.S. 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 at the 2000 level (ENGL 3020 and 3022 preferred), or literature in a foreign language; 6-hour sequences in both the life sciences and the physical sciences, with an additional 2 hours of related laboratory work in one of these fields; courses in several humanities and social sciences disciplines outside the major and at the 3000 level or above; and electives that show a commitment to a liberal education.

Sophomores and juniors with high grade-point averages should consult with Phi Beta Kappa officers or college counselors for more specific information.

PHI KAPPA PHI

Phi Kappa Phi, a national scholastic honor society founded in 1897, now contains 243 chapters nationwide. It is one of the most prestigious scholastic honor societies in the U.S. The LSU chapter was founded in 1930 as the 43rd chapter in the nation. At the present time, the national office is located on this campus in the French House.

The primary objectives of Phi Kappa Phi are to promote the pursuit of excellence in higher education and to recognize outstanding achievement by students and faculty through election to membership and through various awards and fellowships. Phi Kappa Phi is unique because it recognizes superior scholarship in all academic fields, rather than restricting membership to a limited field. Undergraduates and graduate students who rank in the top 10 percent of their graduating 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.

COOPERATIVE EDUCATION PROGRAM

Please see the section "Career Planning, Placement, and Co-op Center" in the "Student/University Services" section of this catalog.

DEPARTMENTS AND CURRICULA

DEPARTMENT OF BIOCHEMISTRY

CHAIR • Winston, Professor
OFFICE • 322 Choppin Hall
TELEPHONE • (504) 388-1556
FAX • (504) 388-5321

BOYD PROFESSOR • Pryor
PROFESSORS • Barkley, Chang, Laine, Winston, Younathan
ASSOCIATE PROFESSORS • Bartlett, Dugtch, Morden, Nelson, Shih
ASSISTANT PROFESSOR • DiMario
INSTRUCTOR • Hawkins

ADJUNCT FACULTY • Bricker, Dreessen, Hales, Kousoulas, Marvel, Moore, Moroney, Murai, Swenson

This department administers the curriculum in biochemistry and participates in an organized research program in the fundamental areas of biochemistry.

The biochemistry curriculum deals with events which occur in living systems at the molecular level and in the chemistry of molecules involved in these processes. A student may obtain a Bachelor of Science degree with a major in biochemistry by either of two concentrations.

College of Basic Sciences 101
The basic concentration in biochemistry provides thorough training in chemistry and a solid foundation in biological sciences. Although it is designed for students who wish to become professional biochemists, it also serves as excellent preparation for entry into medical or dental school.

The preprofessional science concentration in biochemistry is preferred by many students who plan to enter medical or dental school after completion of an undergraduate degree. This concentration places strong emphasis on the physiological applications of chemistry, physics, and biochemistry.

CURRICULUM IN BIOCHEMISTRY

TOTAL SEM. HRS. • 134

FRESHMAN YEAR SEM. HRS.
Chemistry 1201, 1202, 1212 ........ 8
English 1002 .......................... 3
Mathematics 1550 ...................... 5
Biology 1201, 1208, Zoology 1202, .... 12
General education arts course ........ 3
Area of concentration courses ......... 5-0
Approved electives .................... 2-7

SOPHOMORE YEAR SEM. HRS.
Chemistry 2261, 2262 ................. 6
Computer Science 1248 or 1250 or 2262 .... 3
Six hrs. chosen from 2000-level and above general education English courses or Honors 2002 ... 6
3001, 3003 .......................... 6
Microbiology 2051 .................... 4
Area of concentration courses ......... 10-12
Approved electives .................... 4-2

JUNIOR YEAR SEM. HRS.
Chemistry 2001, 2002 ................. 4
Foreign language courses ............. 8-10
General education social sciences courses .... 6
Zoology 2153 .......................... 4
Area of concentration courses ......... 3-8
Approved electives .................... 9-2

SENIOR YEAR SEM. HRS.
Biochemistry 4093, 4094, .......... 4385, 4390 .......... 10
Area of concentration courses ......... 5-9
General education humanities course .... 3
Social sciences/humanities course .... 3
Approved electives .................... 12-8

Areas of Concentration

• Preprofessional Science Area—Premedicine, Predentistry (22 hrs.)

Required Courses • BCH 4001; CHEM 2364; PHYS 2001, 2002, 2108, 2109; 9 hours of approved advanced science or mathematics electives.

BIOLOGY PROGRAM

COORDINATOR • Wischusen, Assistant Professor
OFFICE • 104 Life Sciences Building
TELEPHONE • (504) 388-8239.

ASSISTANT PROFESSOR • Wischusen
INSTRUCTORS • Burckhalter, DeWalt, Farrar, Jolissaint, Mihuc, Slowinski

The faculty members associated with the Biology Program are responsible for the teaching and coordination of the introductory courses in biology. Faculty members from the Departments of Biochemistry, Microbiology, Plant Biology, and Zoology & Physiology also participate in the teaching of these courses.

DEPARTMENT OF CHEMISTRY

CHAIR • Warner, Philip West Chair in Air Quality/Environmental Analytical Chemistry
OFFICE • 232 Choppin Hall
TELEPHONE • (504) 388-3361
FAX • (504) 388-9459

BOYD PROFESSORS • McGlynn, Pryor
PHILIP WEST CHAIR IN AIR QUALITY, ENVIRONMENTAL ANALYTICAL CHEMISTRY • Warner

PROFESSORS • Barkley, Bhacca, Cartledge, Daly, Fischer, Hales, Kestner, McGlynn, Pryor, Rabideau, Runnels, Warner, Wharton

ASSOCIATE PROFESSORS • Butler, Church, Gale, Hall, Hefning, Kumar, Maverick, McLaughlin, Negulescu, Polisikoff, Russo, Stanley, Sygula, Watkins

ASSISTANT PROFESSORS • Hammer, Limbach, McCarley, Melenkevitz, Soper

INSTRUCTORS • Gunn, Oliver, Weingarten

ADJUNCT FACULTY • Cramer, Koppenol, Laine, Means, Overton, Stockbauer

Through two curricula offered by this department, students obtain a thorough working knowledge of the fundamentals of the various branches of chemistry, supplemented by study in physics, mathematics, and other sciences. Both programs are further enriched by the requirement of a broad basic background in the social sciences and humanities. The department offers special lecture and laboratory courses (or special sections of courses) for its majors.

The curriculum in basic chemistry (with concentrations) includes 62 semester hours of elective credit, of which at least 24 hours must constitute an approved concentration. Among the traditional concentrations is a program that specifically prepares students for graduate study in chemistry. Students may also combine basic chemical education with a concentration in a second area, with approval of the dean. This program will permit emphasis in many areas where need for a chemical background has been shown. For example, concentrations in computer science, life sciences, geology, engineering, business administration, ecology, history, foreign languages, oceanography and coastal sciences, political science, and sociology are among those possible.

Students who complete certain courses, in addition to the basic chemistry curriculum, are certified as chemists by the American Chemical Society at the time of their graduation.

An undergraduate minor in chemistry is available. Requirements are a minimum of 20 semester hours of chemistry, including at least two laboratory courses and at least 3 semester hours at the 3000 or 4000 level, but excluding Chemistry 3900.

CURRICULUM IN BASIC CHEMISTRY

TOTAL SEM. HRS. • 136

Electives • An approved concentration consists of 24-30 sem. hrs. of electives in one area. Any area may be chosen, with approval of the dean, provided that education in depth is planned through the concentration.

With the dean's approval, Chemistry 1201, 1202, 1212 may be substituted for Chemistry 1421, 1422, 1431.

*Does not have to be a sequence; at least 3 hours must be from the general education list, but Microbiology 1001 may not be used.

FRESHMAN YEAR SEM. HRS.
Chemistry 1201 or 1421; 1422; 1431 .... 8
English 1002 .......................... 3
Mathematics 1550, 1552 .............. 10
Foreign language courses ............. 8-10
Approved electives .................... 5-3

SOPHOMORE YEAR SEM. HRS.
Chemistry 2001, 2002, 2261, 2262, 2463 .... 12
Computer science programming course .... 3
Physics 2101, 2102, 2108, 2109 .......... 8
General education arts course ......... 3
Approved electives .................... 9

JUNIOR YEAR SEM. HRS.
Chemistry 3491, 3492, 4570 .......... 9
Chemistry 3493 ........................ 3
Six hrs. chosen from 2000-level and above general education English courses or Honors 2002 ... 6
3001, 3003 .......................... 6
Biological sciences courses* .......... 6-8
General education sciences courses .... 6
Approved electives .................... 5-3

SENIOR YEAR SEM. HRS.
Chemistry 4552, 4553 .................. 4
Chemistry 3900 ........................ 2
General education humanities course .... 3
Social sciences/humanities elective .... 3
Approved electives .................... 20

TOTAL SEM. HRS. • 102

College of Basic Sciences
Area of Concentration

Students preparing for graduate study in chemistry must complete this concentration to receive American Chemical Society certification.

Sophomore Year • MATH 2065 or 2085 or 2090 (3-4 sem. hrs.).
Junior Year • CHEM 246A; and CHEM 4581 or PHYS 2221 (5 sem. hrs.); MATH 2087 or an advanced physics course numbered above 2111 (3 sem. hrs.).
Senior Year • Approved chemistry electives (6 sem. hrs.—must include a minimum of 6 sem. hrs. representing two areas of chemistry selected from CHEM 3900, 4160, 4551, 4561, 4562, 4571, 4594, 4595, 4596, 4597, and BCH 4093; and 3 semester hours of Physics chosen from PHYS 2221, 2231, 4152, 4135, 4141, and 4142.

DEPARTMENT OF COMPUTER SCIENCE

CHAIR • Iyengar, Professor
OFFICE • 298 Coates Hall
TELEPHONE • (504) 388-1495
FAX • (504) 388-1465

CRAY RESEARCH CHAIRE Professor of Computer Methodology • Vashishta

LSU FOUNDATION MURPHY J. FOSTER Professor • P. Chen

PROFESSORS • P. Chen, deLeeuw, Iyengar, J. B. Jones, Kalia, Kraft, Vashishta
ASSOCIATE PROFESSORS • Carver, Kundi, Taylor, Tyler, Zheng
ASSISTANT PROFESSORS • Bettayeb, J. Chen, Sun
INSTRUCTORS • Brenner, Courter, Edgeworth, Hatch, Traxler, Weltman

The undergraduate computer science curriculum is structured around basic courses in computer science and mathematics. Students are expected to schedule, via a 15-hour restricted elective group, enough courses in a second area to provide them with a basic understanding of the principles of that area.

The curriculum prepares students for graduate studies or for careers in computer science. A broad background in the humanities and the social sciences is required. The curriculum also provides the student with electives to pursue other interests.

An undergraduate minor in computer science is available. Required courses are CSC 1250 or 1253, 1251 or 1254, 2252, 2259, 3102, 2262 or 2280; and 4101 or 4103 (total of 21-22 hours).

CURRICULUM IN COMPUTER SCIENCE

TOTAL SEM. HRS. • 133

Restricted electives must consist of 15 semester hours in an approved second area. Any second area may be chosen, with the consent of the department and the college dean, provided that an in-depth education is planned. For more information, see the pamphlet, "College Rules Regarding Courses Taken for Credit in the College of Basic Sciences" (available in the dean’s office).

The computer science senior elective (3 semester hours) must be an approved, senior-level computer science course.

Three hours must be from the general education natural sciences.

**Students who have completed the prerequisites may substitute ME 4533.

**Students who have completed the prerequisites may substitute MATH 4055 or QBA 4000.

FRESHMAN YEAR SEM. HRS.
Computer Science 1100, 1250, 1251 ........................................ 3
English 1002 ............................................................................ 3
Mathematics 1550, 1552 ............................................................. 10
Biological or physical sciences sequence ........................................... 6
General education arts course .......................................................... 3
General education speech course ..................................................... 3
TOTAL ......................................................................................... 34

SOPHOMORE YEAR SEM. HRS.
Computer Science 2252, 2259, 2280, 2290 ........................................ 13
Six hrs. chosen from 2000-level and above general education English courses or Honors 2002, 3000, 3003 ........................................... 6
Mathematics 2090 ....................................................................... 4
General education biological or physical sciences sequence with lab .......................... 8
General education social sciences course ............................................ 3
TOTAL ......................................................................................... 34

JUNIOR YEAR SEM. HRS.
Computer Science 2262, 4101 ......................................................... 6
Computer science electives 2000-level or above .................................. 3
Computer Science 3102 ................................................................ 3
Foreign language courses ................................................................. 8-10
Industrial Engineering 3302*** ...................................................... 3
General education social sciences course ............................................ 3
Approved electives ....................................................................... 5-3
Restricted elective ......................................................................... 3
TOTAL ......................................................................................... 34

SENIOR YEAR SEM. HRS.
Computer Science 4103, 4330, and computer science senior elective ................. 9
Restricted electives ....................................................................... 12
Social sciences/humanities course ................................................... 3
Approved electives ....................................................................... 31

DEPARTMENT OF GEOLOGY & GEOPHYSICS

ACTING CHAIR • Hazel, Professor
OFFICE • E235 Howe-Russel Geoscience Complex
TELEPHONE • (504) 388-3353
FAX • (504) 388-2302

CAMPANILE CHARITIES Professor • Hazel
CHARLES L. JONES Professor Emeriti • Andersen, Hart, Kupfer, Morgan
PROFESSORS • Aharon, Baksy, Bousa, Byerly, Chan, Dokka, Ferris, H. Hazel, Melvin, Nummedal, Nunn, Roche, Sen, Gupta
ASSOCIATE PROFESSORS • B. Henry, McCabe, Wrenn
ASSISTANT PROFESSORS • Anderson, Drov, Lorenzo, Winston
ADJUNCT FACULTY • Schiebout

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 two areas of concentration: geology and environmental geology.

All geology students follow the same basic curriculum during the first five semesters of study. During this time, students receive a firm foundation in mineralogy, petrology, structural geology, and sedimentology, as well as basic courses in biology, computer science, chemistry, physics, and mathematics. Emphasis 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 career objectives.

* Students selecting the geology area of concentration take—in addition to the first five-semester group of courses—paleontology, a basic course in either geophysics, geochemistry or tectonics, and 6 hours of geology electives.

* Students selecting the environmental geology area of concentration take physical geology and geophysics, 9 hours of approved environmental geology electives, and 9 hours of approved electives in chemistry, mathematics, and other disciplines relevant to environmental problems.

Both areas of concentration are designed to provide students with a sound foundation in basic geology and to prepare them for entry into a graduate program or directly into a professional career.

Graduate and undergraduate majors in geology must pay a $35 field service fee each semester. Students not majoring in geology who schedule courses requiring field trip fees will be assessed a pro rata part of the amount above as determined by the department chair.
Part-time students enrolled in seminar courses only and students registered for thesis or dissertation only are exempt from the fee. Additional information concerning fees for field geology courses is available from the Geology Field Camp Director, Department of Geology & Geophysics.

An undergraduate minor in geology is available (17-19 hrs.). Required courses are GEOL 1001, 1003, 1601, 1602; plus one of the following concentrations:

- Geochemistry/Petrology: GEOL 2081, 2082, plus one course chosen from 4081, 4082, and 4083. (Suggested for, but not limited to, chemistry or environmental sciences majors.)
- Sedimentology/Paleontology: GEOL 3011, 3032, and 4012 or 4031. (Suggested for life sciences or environmental sciences majors.)
- Geophysics/Structural Geology: GEOL 2071, plus two courses chosen from 4064, 4066, 4067, 4071, and 4098. (Suggested for physics majors.)

Honors courses offered are Geology 1002 and 1004.

CURRICULUM IN GEOLOGY

TOTAL SEM. HRS. 128

*See area requirements.

FRESHMAN YEAR SEM. HRS.
Chemistry 1201, 1202, 1212 8
English 1002 3
Geology 1001, 1003, 1601, 1602 8
Mathematics 1550, 1552 10

Sophomore Year SEM. HRS.
Biology 1201 3
Computer science course* 3
Six hrs. chosen from 2000-level and above general education English courses or Honors 2002, 3001, 3003 6
Geology 2071, 2081, 2082 10
General education humanities course 3
General education social sciences courses 6

Junior Year SEM. HRS.
Geology 3032, 3041 6
Physics 2101, 2102, 2108, 2109 8
Zoology 1202 3
Foreign language courses 8-10
Area of concentration courses 4-3
Approved electives 3-2

Summer (Following Junior Year) SEM. HRS.
Geology 3666 6

Senior Year SEM. HRS.
Area of concentration courses 9-18
Approved electives 18-9

Areas of Concentration

- Geology Area
  Required Courses (16 hrs.): Computer Science programming course; GEOL 3011; 9 hours of 4000-level geology electives, of which at least one course must be chosen from GEOL 4064, 4066, 4067, 4071, 4081, 4082, 4083, 4085, 4098.

- Environmental Geology Area
  Required Courses (24 hrs.): CSC 1253 or 2262; GEOL 4182, approved environmental geology electives (9 hrs.); approved area electives (9 hrs.).

DEPARTMENT OF MICROBIOLOGY

CHAIR • Socolofsky, Alumni Professor
OFFICE • 508 Life Sciences Building
TELEPHONE • (504) 388-2601
FAX • (504) 388-2597

PROFESSOR EMERITUS • Srinivasan
ALUMNI PROFESSOR • Socolofsky
PROFESSORS • Braymer, Larkin, Siebeling, Socolofsky
ASSOCIATE PROFESSORS • Achberger, Bie1, Gayda, Orlowski
ASSISTANT PROFESSOR • Day, Hart, Williams

- An undergraduate minor in microbiology is available. Required courses are MBIO 2051 and 11 additional semester hours of microbiology (excluding MBIO 4933 and 4934) at the 3000 level or above, of which at least 3 hours must be at the 4000 level (total of 15 hours).

CURRICULUM IN MICROBIOLOGY

TOTAL SEM. HRS. 128

Microbiology 2051 and 16 additional hours of microbiology courses numbered 3000 and above are required for graduation.

FRESHMAN YEAR SEM. HRS.
Chemistry 1201, 1202, 1212 8
English 1002 3
Mathematics 1550 5
Biologv 1201, 1202, Zoology 1202, 1209 8
General education arts course 3
Approved electives 5

Sophomore Year SEM. HRS.
Chemistry 2261, 2262 6
Computer science programming course 3
Six hrs. chosen from 2000-level and above general education English courses or Honors 2002, 3001, 3003 6
Foreign language courses 8-10
Microbiology 2051 4
Approved electives 5-3

Junior Year SEM. HRS.
Chemistry 2001, 2364 4
Physics 2001, 2002, 2108, 2109 8
Approved microbiology electives (4110, 4121) are suggested for premedical and preprofessional concentrations.

General education social sciences courses 6
Approved electives 7

Senior Year SEM. HRS.
Approved microbiology electives (4122, 4146, 4190) are suggested for premedical and preprofessional concentrations.

General education social sciences courses 3
Social sciences/humanities course 3
Approved electives 15

DEPARTMENT OF PHYSICS & ASTRONOMY

CHAIR • Tohline, Professor
OFFICE • 202 Nicholson Hall
TELEPHONE • (504) 388-2261
FAX • (504) 388-5895

BOYD PROFESSOR • O'Connell
CRAY RESEARCH CHAIR Professor of Computational Methods • Vashista

PROFESSORS • Chan, Chanmugam, Cherry, Draayer, Drilling, Goodrich, Hamilton, Haymaker, Hussey, Imlay, Kallia, Kirk, D. Kirwan, Landolt, Melzoff, O'Connell, Perry, Rau, Saile, Stockbauer, Tohline, Vashista, Welfel, Zganjar

ASSOCIATE PROFESSORS • Adams, Browne, Frank, Guzik, Johnson, Kurtz, McNeil, Piller, Svoboda

ASSISTANT PROFESSOR • DiTusa

INSTRUCTORS • Giammanco, Gregg, G. Kirwan

ADJUNCT FACULTY • Galaktionov, Koester, Lowndes, Luckey, Pirkle, Poliakoff

An undergraduate minor in physics is available. Required courses are PHYS 1201, 1202, 1208, 1209, or PHYS 2101, 2102, 2108, 2109; PHYS 2221; and at least three courses in physics above 2200 (excluding PHYS 2401, 2995, 4399, and 4991) of which at least 3 hours must be at the 4000 level, and/or astronomy above 4000 (excluding ASTR 4997), for a total of 20-22 hours.

CURRICULUM IN PHYSICS

TOTAL SEM. HRS. 130

Students planning to enter graduate school are encouraged to select a modern foreign language.

*Does not have to be a sequence; at least 3 hours must be from the general education list, but MBIO 1001 may not be used.
### FRESHMAN YEAR  
SEM. HRS.

<table>
<thead>
<tr>
<th>Course</th>
<th>HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1002</td>
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</tr>
<tr>
<td>Mathematics 1550, 1552</td>
<td>10</td>
</tr>
<tr>
<td>Physics 1201, 1202, 1208, 1209</td>
<td>10</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
<tr>
<td>Area of concentration courses</td>
<td>6</td>
</tr>
</tbody>
</table>

### SOPHOMORE YEAR  
SEM. HRS.

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
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<tbody>
<tr>
<td>Six hrs. chosen from 2000-level and above general education English courses or Honors 2002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 2057</td>
<td>3</td>
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<tr>
<td>Physics 2220, 2207, 2221</td>
<td>7</td>
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<tr>
<td>Biological sciences courses*</td>
<td>6</td>
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<tr>
<td>Computer science programming course</td>
<td>3</td>
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<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
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<td>Humanities course</td>
<td>3</td>
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<td>Area of concentration courses</td>
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</table>

### JUNIOR YEAR  
SEM. HRS.

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Foreign language courses</td>
<td>8-10</td>
</tr>
<tr>
<td>Mathematics 2148, 2122, 2212</td>
<td>6</td>
</tr>
<tr>
<td>Area of concentration courses</td>
<td>6</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
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<td>Area of concentration courses</td>
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</tbody>
</table>

### SENIOR YEAR  
SEM. HRS.

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Area of concentration courses</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics 4125</td>
<td>3</td>
</tr>
<tr>
<td>Social sciences/humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>14</td>
</tr>
</tbody>
</table>

### Areas of Concentration

♦ Physics Area

**Required Courses (28 hrs.)**

- CHEM 1201, 1202; MATH 2090; PHYS 4123, 4141, 4142, 4599, and two physics electives (4000 level or above)—with permission, a 4000-level mathematics course may be substituted for one.

♦ Astronomy Area

**Required Courses (28 hrs.)**

- ASTR 1101, 1102, 4221, 4222, 4261; MATH 2090; PHYS 4123, 4135, 4141.

♦ Physics and a Second Discipline Area

**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 adviser.

♦ Physics/Secondary Education Area

**Freshman Year (33 hrs.)**

- Astronomy 1101, 1102, 1108, 1109; Chemistry 1201, 1202, 1212; English 1002; Mathematics 1550; general education arts course/area of concentration courses (6).

**Sophomore Year (35 hrs.)**

- Biology 1201, 1202; English 3020, 3022, 2025, 2027, 3070, 2148, Honors 2002, 3001, 3003 (select two courses); Mathematics 1552, 2057, Physics 1201, 1202, 1208, 1209; Zoology 1202, 1209 or Plant Biology 1202; general education humanities course.

**Junior Year (32 hrs.)**

- Computer science programming course (3); foreign language courses (8-10); general education social sciences courses (6); area of concentration course (3); Physics 2203, 2207, 2221, 2401; approved elective (2-0).

**Senior Year (30 hrs.)**

- General education social sciences/humanities course (3); area of concentration courses (9); Physics 2231, 2411, 4098; approved electives (9).

It is recommended that 16 hours in the area of concentration be chosen to allow certification for teaching in a second area besides physics. Some suggested second areas are: mathematics; MATH 2040, 2065, 2085, 4005; chemistry; CHEM 2001, 2002, 2261, 2262, 2364, BCH 4087; life sciences; PBJO 2046, 2055, 3060, MBIO 2051, ZOOL 2153, 3040, 3041, 3090, 4153; earth sciences; GEOL 1001, 1003, 1601, 1602, 2002, 2066, 2071, 2081, 3011, 3032; environmental sciences; ENVIS 4010, 4261, 4500, NS 4101, 4141, CE 3110, 4135, ZOOL 4155; general science; ENVIS 2144, 4010, GEOL 1001, 1003, 1601, 1602.

### DEPARTMENT OF PLANT BIOLOGY

**Interim Chair:** Longstreth, Associate Professor

**Office:** 502 Life Sciences Building

**Telephone:** (504) 388-8485

**Fax:** (504) 388-8489

**Boyd Professor:** Tucker

**Professors:** Blackwell, Bricker, Chapman, Moore, Platt, Tucker, Williamson

**Associate Professors:** Benslow, Longstroth, Moroney, Sundberg, Urbatsch

**Adjunct Faculty:** Bartlett, Fischer, Grace, Mindelosohn, Phasly

An undergraduate minor in plant biology is available. Required courses are BIOL 1201, 1208, PBJO 1202, 3060, and 8 additional semester hours of plant biology at the 3000 level or above, of which at least 3 semester hours must be at the 4000 level (total of 20 hours).

### CURRICULUM IN PLANT BIOLOGY

**Total Sem. Hrs.: 129**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRESHMAN YEAR</td>
<td></td>
</tr>
<tr>
<td>Biology 1201, 1208</td>
<td>8</td>
</tr>
<tr>
<td>Plant Biology 1202</td>
<td>3</td>
</tr>
<tr>
<td>English 1002</td>
<td>3</td>
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<td>Foreign language courses</td>
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<tr>
<td>Mathematics 1550</td>
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<td>General education arts course</td>
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<tr>
<td>Computer science programming course</td>
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<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
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<tr>
<td>Six hrs. chosen from 2000-level and above general education English courses or Honors 2002</td>
<td>6</td>
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<tr>
<td>Microbiology 2051 or Zoology 1202</td>
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<tr>
<td>Zoology 2153</td>
<td>4</td>
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<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>JUNIOR YEAR</td>
<td></td>
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<tr>
<td>Plant Biology 3060</td>
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<tr>
<td>Chemistry 2261, 2262, 2364</td>
<td>8</td>
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<tr>
<td>Approved plant biology electives</td>
<td>3</td>
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<tr>
<td>General education humanities course</td>
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<td>Social sciences/humanities electives</td>
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<td>Approved electives</td>
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<table>
<thead>
<tr>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Biochemistry 4087 or 4093, 4094</td>
<td>3-6</td>
</tr>
<tr>
<td>Physics 2001, 2002, 2108, 2109</td>
<td>8</td>
</tr>
<tr>
<td>Approved plant biology electives (3000 level or above)</td>
<td>8</td>
</tr>
<tr>
<td>Approved electives</td>
<td>13-10</td>
</tr>
</tbody>
</table>

### DEPARTMENT OF ZOOLOGY & PHYSIOLOGY

**Chair:** Fleeger, Professor

**Office:** 202 Life Sciences Building

**Telephone:** (504) 388-1192

**Fax:** (504) 388-1763

**Mary Lou Applewhite Professorship**

- Caprio

**Professors:** Brown, Caprio, Dietz, Fleeger, Hatner, Homberger, Lee, Meier, Siebanfiller, Silberman, Stickle, Weidner, Woodring

**Associate Professors:** Foltz, Lynn

**Assistant Professors:** Bruch, Carman, Dreessen, Trant, Wilschun

**Instructors:** DeWalt, Thompson

**Adjunct Faculty:** Dagg, Fitzsimons, Good, Reimsen, Rosman, Sammarco, Sheldon

The biological sciences are evolving at a rapid pace, and the curriculum in zoology reflects these changes. Students are provided with solid backgrounds in animal biology and are prepared for professional (medical, dental, pharmaceutical) or graduate training. The curriculum includes advanced courses in modern zoology (cell and molecular biology, genetics, animal physiology, ecology, evolution), as well as courses in related sciences (biochemistry, chemistry, microbiology, physics, plant biology) and social sciences and humanities.

**Preprofessional Science Concentration**

Approved electives may be used to satisfy premedical requirements of the LSU Medical Schools in New Orleans and Shreveport. Additional information is available from the departmental office or faculty counselors. The zoology curriculum satisfies all Louisiana premedical and premedical requirements.

**Marine Zoology**

The department maintains cooperative arrangements with the Louisiana Universities’ Marine Consortium (LUMCON), Cocodrie, Louisiana, and the Gulf Coast Research Laboratory (GCRL), Ocean Springs, Mississippi. LUMCON summer field courses may be taken for LSU credit as ZOOL 4600, Topics in Marine Zoology. GCRL summer field courses may be taken through the University of Southern Mississippi and applied as transfer credit toward an LSU degree.
LSU also has a cooperative agreement with the National Oceanic and Atmospheric Administration (NOAA) allowing students to work two semesters at a NOAA laboratory prior to graduation. A list of courses recommended for students specializing in marine zoology is available in the departmental office. Students needing additional information should contact the chair of the department.

An undergraduate minor in zoology and physiology is available. Required courses are BIOL 1201, 1208; ZOOL 1202, 1209; and 7 additional semester hours of zoology, including at least one 4000-level course with a laboratory, but excluding courses not for credit for zoology majors. A total of 15 hrs. is required for the minor.

**CURRICULUM IN ZOOLOGY**

**TOTAL SEM. HRS. • 132**

The 20 hrs. of advanced (3000 or 4000 level) zoology courses in the junior and senior years must include at least two courses with laboratory (excluding ZOOL 3950 and 3951) and three courses representing three of the four following areas: (1) cell and molecular biology (ZOOL 3000, 3156, 4104, 4132, or 4177); (2) physiology (ZOOL 4016, 4155, 4157, 4158, or 4160); (3) ecology and evolution (ZOOL 4133, 4162, or 4299); and (4) animal diversity (ZOOL 3152, 4105, 4141, 4142, 4145, 4146, 4149 or 4154).

A maximum of six hrs. of summer field courses (ZOOL 4600) and a maximum of 4 hours of independent research (ZOOL 3950 or 3951) may count toward the 20-hour requirement.

**FRESHMAN YEAR**

**SEM. HRS.**

Chemistry 1201, 1202 ........................................ 6
English 1002 .................................................. 3
Mathematics 1550 ............................................ 5
Biology 1201, 1208, Zoology 1202, 1209 ............ 8
General education arts course ................................ 3
Approved electives ........................................ 8

**SOPHOMORE YEAR**

**SEM. HRS.**

Chemistry 1212, 2261, 2262, 2364 ....................... 10

Six hrs. chosen from 2000-level and above general education English courses or Honors 2002, 3001, 3003 ........................................ 6
Foreign language courses ..................................... 8-10
Microbiology 2051 or Plant Biology 1202 .............. 4
Zoology 2153 .................................................. 4
Approved electives ......................................... 2-0

**JUNIOR YEAR**

**SEM. HRS.**

Computer Science ........................................... 3
Programming course ........................................ 3
Physics 2001, 2002, 2108, 2109 ............................ 8
Approved zoology electives ................................ 8
General education social sciences courses ............... 6
Approved electives ........................................ 5

**SENIOR YEAR**

**SEM. HRS.**

Biochemistry 4087 or 4093 .................................. 3
Approved zoology electives ................................ 12
General education humanities course ..................... 3
Social sciences/humanities course ......................... 3
Approved electives ......................................... 11

The College of Business Administration 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 chart below.

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 College of Business Administration 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 College of Business Administration's strategic planning committee and was approved by the faculty of the college in the spring of 1993.

The mission of the College of Business Administration at Louisiana State University and A&M College 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 may enter the College of Business Administration from Junior Division, from other divisions of the University, or by transfer from another accredited college or university. Admission to the college requires:

- completion of English 1002 and 2002 with a grade of at least "C" in each;
- completion of the pre-business core, consisting of Mathematics 1431 and 1435 (1550 and 1552 may be taken in QBA), Computer Science 1248 or 1250, Accounting 2001 and either 2021 or 2101, Economics 2010 and 2020, and QBA 2000, 2001, and 2100, with a grade-point average of 2.20 or better; and
- completion of at least 60 semester hours of credit with a grade-point average of 2.50 on all course work taken and on all course work taken at LSU.

Students who have not met all the requirements stated above may petition the college for admission.

The college encourages qualified students to apply for early admission. Early admission will be granted to a student whose grade-point average is significantly higher than the minimum gpa required for admission by the college and who is making normal progress toward completion of the pre-business core (see the freshman and sophomore years of the curriculum in "General Business Administration" in this catalog). Under this provision, a student who is making normal progress on the pre-business core and whose grade-point average on all course work taken and on all course work taken at LSU is at least 3.00 may enter after completion of 30 semester hours of credit. A student whose grade-point average on all course work taken and on all course work taken at LSU is at least 2.70 may enter after completion of 45 semester hours of credit.

Transfer credit acceptable for admission to the University shall be valid for admission to the college and for degree credit only to the extent to which it represents courses acceptable in the curricula of the college.

The college will not accept transfer credit for any course in which a grade lower than "C" has been received, unless the course was taken at a university within the LSU System. Credit will not be allowed for business courses completed at the lower-division level at other institutions that are offered at the junior or senior level in this college.

**Readmission**

Students who were not registered at LSU for the preceding regular semester must file a formal application for readmission. Readmission to the College of Business Administration is not automatic.
DEGREE REQUIREMENTS

The degree of Bachelor of Science will be conferred on students who complete one of the approved curricula with a 2.00 or better grade-point average on all work taken and a 2.00 or better grade-point average on all business administration courses taken numbered 2000 or above. The above requirements apply both to the total course work taken and to LSU course work separately.

The last 30 semester hours presented for the degree must be taken in residence in the College of Business Administration on the LSU campus.

The AACSB Standards for accreditation state that "the school should require that at least 50 percent of the business credit hours required for the business degree be earned at the degree-awarding institution."

The student must complete 131 semester hours in accordance with the following regulations.

**Academic Work, 131 Semester Hours**

All 3000/4000-level business courses, except Accounting 3021, are restricted to students who have completed 60 hours of college-level course work.

**General Education Requirements**

- **English Composition and Speech (12 hrs.)**—English 1000/1001 and 1002, 1003, or 1005 with a grade of "C" or better; English 2002 with a grade of "C" or better; Speech Communication 1061 or 1062; and Speech Communication 2010, 2061, 2064, 4101, 4113, or 4114.
- **Mathematics and Computer Science (9-13 hrs.)**—Computer Science 1248 or 1250; and Mathematics 1431 and 1435, or 1550 and 1552. Mathematics 1550 may be substituted for 1431 and Mathematics 2085 may be substituted for 1435. Students should refer to their chosen curriculum to determine the specific mathematics and computer science requirements. No student may receive more than 9 semester hours of credit in mathematics courses numbered below 1550. Mathematics 1020/1021 may be used as an elective.
  - **Natural Science (9 hrs.)**—See those courses listed as general education natural sciences courses.
  - **Arts (3 hrs.)**—See those courses listed as general education arts courses.
  - **Humanities (9 hrs.)**—See those courses listed as general education humanities courses.
  - **Social Sciences (6 hrs.)**—See those courses listed as general education social sciences courses.
  - Not more than 39 semester hours of required and elective courses numbered below 2000 may be applied toward a degree from this college.

**Required Work in the College of Business Administration**

- **Functional Areas (9 hrs.)**—Finance 3715, Marketing 3401, and QBA 3115.
- **General (6 hrs.)**—Management 3200 and 3830.
- **Major Field (24 hrs.)**—Courses numbered 3000 or above, see curricular requirements.
- **Approved Business Electives (6 hrs.)**—Courses numbered 3000 or above.

**ELECTIVES**

Students may choose any degree credit courses offered by the University consistent with their specific degree requirements. However, no more than 6 hours may be selected from ROTC, kinesiology activity courses, band, chorus, or music skills courses. Up to 6 semester hours in ROTC may be used as electives in all business curricula. Additional courses beyond the 6 hours in ROTC, kinesiology activity courses, band, chorus, or music skills may not be counted toward making up deficiencies in the grade-point average.

**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.

**CORRESPONDENCE AND EXTRAMURAL CREDIT**

Students must have the permission of the dean of the college prior to scheduling correspondence or extramural course work. Students can be approved for courses by correspondence through the dean of the College of Business Administration (3304 CEB A) and may enroll at the Division of Continuing Education (E106 Pleasant Hall; 388-3171). Enrollment in correspondence and extramural courses must be completed by the final date for adding courses for any semester, including the 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. Students who have not completed all of the requirements by the deadline will have their enrollment automatically terminated.

No more than 12 semester hours of correspondence and extramural credit may be applied toward the degree requirements of the college. Students who do not take MGT 3830 by correspondence will receive a degree and no degree may be awarded during a semester in which a student is enrolled in correspondence study.
INDEPENDENT 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. 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.

GRADUATION REQUIREMENTS

Students who complete degree requirements during 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 have completed courses at another college or university must have an official transcript covering this work on file in the Office of Student Records & Registration before registering for the degree.

PHI KAPPA PHI

Phi Kappa Phi, a national scholastic honor society founded in 1897, now contains 243 chapters nationwide. It is one of the most prestigious scholastic honor societies in the U.S. The LSU chapter was founded in 1930 as the 43rd chapter in the nation. At the present time, the national office is located on this campus in the French House.

The primary objectives of Phi Kappa Phi are to promote the pursuit of excellence in higher education and to recognize outstanding achievement by students and faculty through election to membership and through various awards and fellowships. Phi Kappa Phi is unique because it recognizes superior scholarship in all academic fields, rather than restricting membership to a limited field.

Undergraduates and graduate students who rank in the top 10 percent of their graduating 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.

REQUIREMENTS FOR A SECOND BACHELOR'S DEGREE

To receive a second bachelor's degree from this college, students must complete—with a grade-point average of 2.50 or better—all stated requirements for a B.S. degree in the College of Business Administration not previously met. In all cases, however, the program of studies must comprise a minimum of 30 semester hours of work beyond that presented for the first degree and at least two semesters in residence in the college. Admission requirements of the college for the purpose of earning a second bachelor's degree, for students not currently enrolled in the college, are the same as for students seeking the first bachelor's degree.

NONMATRICULATED STATUS

To be admitted to the college on a nonmatriculated 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 Planning, Placement, & Co-op Center" in the section of this catalog titled, "Student/University Services."

GRADUATE PROGRAMS

Master's and doctoral degrees are offered through the Graduate School by the various departments within the college. In addition, the following specialized master's degrees are offered. For information about these degrees consult the Graduate Bulletin.

Master of Business Administration

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 M.B.A. 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 Departments of Accounting, Economics, Management, Political Science, and Quantitative Business Analysis and the Hebert Law Center cooperate in this inter-departmental program.

PLACEMENT SERVICE

The University maintains a professionally staffed placement service located on the first floor of the CEBA Building. 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

Public Management Program

HEAD • Louden
OFFICE • 3139 CEBA Building
TELEPHONE • (504) 388-6648

Through its comprehensive program of training, services, and research, this program provides state and local governments with the expertise necessary to solve governmental problems. Services range from seminars and in-service training programs to consultation and research on specific problems. The office also develops and publishes manuals on various governmental procedures, such as personnel administration, management, organizational development, and job evaluation and pay. These services are provided statewide by institute staff and university professors.

The program has been designated as the sponsoring agency for two training and educational programs authorized by the 1979 Louisiana Legislature. The Comprehensive Public Training Program is designed to increase the skills and knowledge of all state employees and nonselective officials. The Certified Public Manager Program (CPM) is open to persons holding management positions in state government or nominated by their supervisors for promotion to such a position. The CPM curriculum includes 216 instructional hours in management and 60 hours in elective courses. On completion of the program, participants are awarded the designation of Certified Public Manager.

GENERAL BUSINESS ADMINISTRATION

CURRICULUM IN GENERAL BUSINESS ADMINISTRATION

TOTAL SEM. HRS. • 131

*If ROTC is elected, see "Degree Requirements of the College."


***To be selected from the offerings of at least four of the following departments: Accounting, Economics, Finance, Management, Marketing, and Quantitative Business Analysis.

****Course may be chosen from Speech Communication 2010, 2061, 2064, 4101, and 4114.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>Computer Science</td>
<td>1248</td>
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<tr>
<td>English</td>
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<tr>
<td>Mathematics</td>
<td>1431,1435</td>
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<tr>
<td>General education natural sciences</td>
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FRESHMAN YEAR
Speech Communication 1061 or 1062 ................................................. 3
General education arts course ......................................................... 3
General education humanities course ................................................. 3
General education social sciences course .......................................... 3

SOPHOMORE YEAR SEM. HRS.
Accounting 2001, 2101** .............................................................. 6
English 2002 .............................................................................. 3
Economics 2010, 2020 .................................................................. 6
Approved speech elective**** ......................................................... 3
QBA 2000, 2001, 2100 ................................................................. 9
General education natural sciences course ........................................ 3
General education humanities course ................................................. 3
General education humanities course ................................................. 3
General education natural sciences course (physical/biological, not same as sequence) ................................................. 3

JUNIOR YEAR SEM. HRS.
Economics 2035 .......................................................................... 3
Finance 3201, 3715 ......................................................................... 6
Management 3200 ......................................................................... 3
QBA 3115 ..................................................................................... 3
Marketing 3401 ............................................................................. 3
Approved business administration electives (3000/4000 level)*** ....... 12
Approved elective* ...................................................................... 3

SENIOR YEAR SEM. HRS.
Management 3830 ......................................................................... 3
Approved business administration electives (3000/4000 level) .......... 18
General education humanities course ................................................. 3
Approved electives* .................................................................... 5

Areas of Concentration

♦ Pre-Law Area

• First Two Years—follow General Business Administration curriculum;
  • Junior Year—ECON 4010, FIN 3701, ECON 3201, ECON 3401, POLI 2051, QBA 3115; approved electives (5 hrs.);
  • Senior Year—ECON 4120 or 4440, FIN 3201, 3715, MGT 3200, MKT 3401, POLI 2051, QBA 3115; approved electives (5 hrs.);

♦ Business and Public Administration Area

• First Two Years—follow General Business Administration curriculum;
  • Junior Year—ACCT 4421, ECON 2035, 3720, 4120 or 4440, FIN 3201, 3715, MGT 3200, MKT 3401, POLI 2051, QBA 3115; approved electives (3 hrs.);
  • Senior Year—ECON 4120 or 4440, MGT 3830, POLI 4010, 4015; electives (3 hrs.) selected from POLI 4020, 4022, 4041, 4043; general education humanities course (3 hrs.), approved electives (5 hrs.), approved business administration electives (6 hrs.).

<table>
<thead>
<tr>
<th>DEPARTMENT OF ACCOUNTING</th>
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</thead>
<tbody>
<tr>
<td>CHAIR· Brenner, KPMG Peat Marwick Professor of Accounting</td>
</tr>
<tr>
<td>OFFICE· 3101 CBNA Building</td>
</tr>
<tr>
<td>TELEPHONE· (504) 388-6202</td>
</tr>
<tr>
<td>KPMG PEAT MARWICK PROFESSOR OF ACCOUNTING· Brenner</td>
</tr>
<tr>
<td>ACCOUNTING ALUMNI DISTINGUISHED PROFESSOR· Hartman</td>
</tr>
<tr>
<td>PROFESSORS· N. Apostolou, Arrington, Brenner, Hartman, McCormick</td>
</tr>
<tr>
<td>ASSOCIATE PROFESSORS· B. Apostolou, Dais, Sumners</td>
</tr>
<tr>
<td>ASSISTANT PROFESSORS· Cuccia, Guffey, Hagan, Iyer, Luehlfing, Wermert</td>
</tr>
<tr>
<td>INSTRUCTORS· Anderson, Armento, Irwin, Urban</td>
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<tr>
<th>CURRICULUM IN ACCOUNTING</th>
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<tbody>
<tr>
<td>TOTAL SEM. HRS.· 131</td>
</tr>
<tr>
<td>Accounting majors may transfer accounting course credits only from schools accredited by the American Assembly of Collegiate Schools of Business. No more than 12 credit hours in accounting may be transferred.</td>
</tr>
<tr>
<td>Students are required to earn at least a grade of “C” in each accounting course. For an accounting course to qualify as a prerequisite for another accounting course, it is necessary that a grade of “C” or better be earned in the prerequisite course.</td>
</tr>
<tr>
<td>Beginning in May of 1997, candidates for the Certified Public Accountant’s examination (CPA) in Louisiana must have at least 150 hours of college credit.</td>
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<tr>
<th>FRESHMAN YEAR SEM. HRS.</th>
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<tbody>
<tr>
<td>English 1000/1001, 1002 or 1003 .............................................. 6</td>
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<tr>
<td>Mathematics 1431, 1435 ............................................................ 6</td>
</tr>
<tr>
<td>General education natural sciences sequence ........................................ 6</td>
</tr>
<tr>
<td>Speech Communication 1061 or 1062 ............................................. 3</td>
</tr>
<tr>
<td>General education social sciences course .................................... 3</td>
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<tr>
<td>General education humanities course ......................................... 3</td>
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<tr>
<td>General education humanities course ......................................... 3</td>
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<tr>
<th>SOPHOMORE YEAR SEM. HRS.</th>
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<tbody>
<tr>
<td>Accounting 2001, 2101 ................................................................ 6</td>
</tr>
<tr>
<td>English 2002 ............................................................................. 3</td>
</tr>
<tr>
<td>Approved speech elective ........................................................... 3</td>
</tr>
<tr>
<td>Economics 2010, 2020 ................................................................ 6</td>
</tr>
<tr>
<td>QBA 2000, 2001, 2100 ................................................................ 9</td>
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<tr>
<td>General education social sciences course .................................... 3</td>
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<tr>
<td>General education humanities course ......................................... 3</td>
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<tr>
<td>General education humanities course ......................................... 3</td>
</tr>
<tr>
<td>General education humanities course (physical/biological, not same as sequence) ................................................. 3</td>
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<tr>
<th>JUNIOR YEAR SEM. HRS.</th>
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<tbody>
<tr>
<td>Accounting 3021, 3023 ................................................................ 6</td>
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<tr>
<td>Accounting 3121 or 3221 ............................................................ 3</td>
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<tr>
<td>Economics 2035 ......................................................................... 3</td>
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<tr>
<td>Finance 3201, 3715 .................................................................... 9</td>
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<tr>
<td>Management 3200 ....................................................................... 3</td>
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<tr>
<th>SENIOR YEAR SEM. HRS.</th>
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<tbody>
<tr>
<td>Accounting 3121 or 3221 ............................................................ 3</td>
</tr>
<tr>
<td>Accounting 3222, 4022, 4321 ..................................................... 9</td>
</tr>
<tr>
<td>Management 3830 ...................................................................... 3</td>
</tr>
<tr>
<td>Accounting elective (select from 4000 level courses) ................. 3</td>
</tr>
<tr>
<td>Approved electives .................................................................... 8</td>
</tr>
<tr>
<td>Approved business administration elective .................................. 3</td>
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<thead>
<tr>
<th>DEPARTMENT OF ECONOMICS</th>
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</thead>
<tbody>
<tr>
<td>CHAIR· Scott, Thomas J. Singletary Distinguished Professor of Business Administration</td>
</tr>
<tr>
<td>OFFICE· 2107 CBNA Building</td>
</tr>
<tr>
<td>TELEPHONE· (504) 388-5211</td>
</tr>
<tr>
<td>FAX· (504) 388-3807</td>
</tr>
<tr>
<td>MACK HORNBEAK ENDEWED PROFESSORSHIP IN ECONOMICS· Hill</td>
</tr>
<tr>
<td>LSU FOUNDATION PROFESSOR OF ECONOMICS· Smyth</td>
</tr>
<tr>
<td>GULF COAST COCA-COLA BOTTLING CO., INC. DISTINGUISHED PROFESSORS OF BUSINESS ADMINISTRATION· Moore, Yu</td>
</tr>
<tr>
<td>SOUTH CENTRAL BELL DISTINGUISHED PROFESSORS OF BUSINESS· McMillin, Newman</td>
</tr>
<tr>
<td>THOMAS J. SINGLETARY DISTINGUISHED PROFESSOR· Scott</td>
</tr>
<tr>
<td>ALUMNI PROFESSORS· Beard, Richardson</td>
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<tr>
<td>PROFESSORS· Beard, Campbell, Culbertson, Hill, Johnson, Jones, Koray, McMillin, Moore, Newman, Rice, Richardson, Scott, Smyth, Turnbull, Yu</td>
</tr>
<tr>
<td>ASSOCIATE PROFESSORS· Bigelow, Kleit, Lucke</td>
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<tr>
<td>ASSISTANT PROFESSORS· Lee, Palivos</td>
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<tr>
<th>CURRICULUM IN ECONOMICS</th>
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<tbody>
<tr>
<td>TOTAL SEM. HRS.· 131</td>
</tr>
<tr>
<td>For the first two years, see the General Business Administration curriculum. If postgraduate study in economics is anticipated, it is strongly recommended that the calculus sequence, MATH 1550-1552 and 2085, be taken.</td>
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<tr>
<th>JUNIOR YEAR SEM. HRS.</th>
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<tbody>
<tr>
<td>Economics 2035, 3720 ................................................................ 6</td>
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<tr>
<td>Finance 3201, 3715 ................................................................... 6</td>
</tr>
<tr>
<td>Management 3200 ....................................................................... 3</td>
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<tr>
<td>Marketing 3401 ......................................................................... 3</td>
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<tr>
<td>QBA 3115 .................................................................................. 3</td>
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<tr>
<td>Economics electives .................................................................... 9</td>
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<tr>
<td>Approved elective ...................................................................... 3</td>
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<tr>
<th>SENIOR YEAR SEM. HRS.</th>
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<tbody>
<tr>
<td>Economics 4630, 4710 ................................................................ 6</td>
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<tr>
<td>Management 3830 ....................................................................... 3</td>
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<tr>
<td>Economics electives .................................................................... 6</td>
</tr>
<tr>
<td>General education humanities course ......................................... 3</td>
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</table>
CURRICULUM IN INTERNATIONAL TRADE AND FINANCE

TOTAL SEM. HRS. • 131

For the first two years, see the General Business Administration curriculum. If postgraduate study in economics is anticipated, it is strongly recommended that the calculus sequence, MATH 1550-1552 and 2085, be taken.

JUNIOR YEAR SEM. HRS.
Economics 2035, 3720 6
Finance 3201, 3715 6
Management 3200 3
Marketing 3401 3
Political Science 2093 3
QBA 3115 3
Approved electives (4000 level) 6
Areas of Concentration

Areas of Concentration

♦ Commercial Banking Area
- Junior Year—follow General Business Administration curriculum.
- Junior Year—FIN 3322, ECON 2035, FIN 3201, 3715, 3826, MGT 3200, MKT 3041, QBA 3115; general education humanities course (3 hrs.), approved electives (5 hrs.).
- Senior Year—FIN 3232, 3634, MGT 3830, major field electives (4 hrs.) selected from FIN, ACCT, and/or ECON courses, except ECON 3310, 4010, ACCT 2101; approved business administration electives (6 hrs.); approved electives (3 hrs.).

♦ Real Estate Area
- Junior Year—follow General Business Administration curriculum.
- Junior Year—ECON 2035, FIN 3201, 3351, 3715, MGT 3200, MKT 3401, QBA 3115, general education humanities course (3 hrs.), approved electives (5 hrs.).
- Senior Year—FIN 3352, 3355, MGT 3830, major field electives (5 hrs.) selected from FIN, ACCT, ECON and/or MKT courses; approved business administration electives (6 hrs.); approved electives (3 hrs.).

DEPARTMENT OF MANAGEMENT

CHAIR • Bedeian, Ralph and Kacoo Olindo Distinguished Professor of Management OFFICE • 3158 CBEA Building TELEPHONE • (504) 388-6101 FAX • (504) 388-6140

Ralph and Kacoo Olindo Distinguished Professor of Management • Bedeian
H. Norman Saugur, Jr., Community Coffee Co., Distinguished Professor of Management • Mossholder
PROFESSORS • Bedelian, Justis, Mossholder
ASSOCIATE PROFESSORS • Jarley, Russell
ASSISTANT PROFESSORS • Adams, Bennett, Chandler, Deaphouse, Ketchen, Palmer
INSTRUCTOR • Chany

CURRICULUM IN FINANCE

TOTAL SEM. HRS. • 131

For the first two years, see the General Business Administration curriculum.
There are two curricula in quantitative business analysis:

- the QBA-management information systems curriculum deals with the analysis, design, and implementation of information systems to support the operations and management functions of an organization. This curriculum also offers the students the option of specializing in a business related area by choosing accounting, economics, finance, management, marketing, or quantitative business analysis as an area of specialization with a degree program in quantitative business analysis.

- the QBA-operations management curriculum is concerned with the efficient production of goods and delivery of services.

CUMULUS IN QUANTITATIVE BUSINESS ANALYSIS

If ROTC is elected, see "Degree Requirements of the College."

FRESHMAN SEM. HRS.

Computer Science 1248 3

Economics 2035 3

Finance 3201 3

Management 3200 3

Marketing 3401 3

QBA 3115 3

Approved electives 6

Total 13

JUNIOR SEM. HRS.

QBA 4110, 4120, 4125 9

General education social sciences course 3

General education natural sciences course 3

QBA 3100, 3110, 3115, 3200 12

Total 30

SOPHOMORE SEM. HRS.

Accounting 2001 3

Accounting 2021 or 2101 3

Economics 2010, 2020 3

Economics 3401 3

QBA 3110 3

Elective 3

Total 13

SENIOR SEM. HRS.

Finance 3715 3

Management 3820 3

QBA 4110, 4120, 4125 9

General education social sciences course 3

General education natural sciences course 3

QBA 3100, 3110, 3115, 3200 12

Total 30

If ROTC is elected, see "Degree Requirements of the College."

Areas of Concentration

- Operations Management Area

ENGL 1000/1001, 1002 or 1003, 2002; general education natural sciences (6 hrs.); SPCC 1016/1066; MATH 1350 and 1552 or 1435 and 1435, 1635, 2085; CSC 1248; general education arts (3 hrs.), social sciences (6 hrs.), humanities (9 hrs.), natural sciences (3 hrs.), elective (1 hr.); ACCT 2001, 2011 and 2101; ECON 2010, 2020, 2035; approved QBA elective (3 hrs.); QBA 2001, 2002, 3100, 3110, 3115, 4020, 4051, 4168, 4501; MGT 3200, 3830, 3870; MKT 4041; approved QBA electives (9 hrs.); approved business administration 3000, 4000 level electives (6 hrs.); FIN 3201, 3715.
♦ Management Science Area

ENGL 1000/1001, 1002 or 1003, 2002; CSC 1248, 2262; MATH 1550 and 1552 or 1431 and 1435 and 1635, 2057, 2085; general education natural sciences (6 hrs.), arts (3 hrs.), humanities (9 hrs.), social sciences (6 hrs.), natural sciences (3 hrs); SPCM 1061 or 1062, approved SPCM elective (3 hrs.); electives (1 hr.); ACCT 2001, 2021 or 2101; ECON 2010, 2020, 2035; FIN 3201, 3715; MGT 3200, 3830; MKT 3401; QBA 2000, 2001, 2100, 3000, 3115, 4000, 4501, 4020, 4021, approved QBA electives (6 hrs.); approved business administration electives (3 hrs.).
The College of Design is one of only a few U.S. colleges that offers programs in all the basic design disciplines. The college has nationally accredited degree programs in architecture, art, interior design, and landscape architecture. In these degree programs, majors are offered in architecture, ceramics, graphic design, interior design, landscape architecture, painting and drawing, photography, printmaking, and sculpture. The college is dedicated to the development of technical excellence and intellectual achievement through research and scholarship.

The association of people, programs, and jointly shared facilities provides an excellent opportunity for learning. Faculty members guide, support, and challenge students to freely express themselves as artists and designers and to meet the rigorous demands of their chosen professions. The broad range of academic resources and studio experiences provides the foundation for successful careers in art and design disciplines.

ADMISSION REQUIREMENTS

Students may enter the college from Junior Division, by transfer from another division of LSU, or by transfer from another approved college or university. The College of Design has a policy of selective admission that applies to the programs of architecture, graphic design, interior design, and landscape architecture. 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 Junior Division • Students must have earned a minimum of 24 semester hours, with a 2.00 gpa on all work taken.

By Transfer • Students must have earned a minimum of 24 semester hours of credit with a gpa of at least 2.00 on all work taken, and be accepted into the program.

The extent to which transfer credits acceptable for admission to the University fulfill degree requirements will be determined by the college. A student who has taken studio courses may be required to submit a portfolio.

Readmission

Students who were not registered at LSU for the preceding regular semester must file a formal application for readmission.

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

To qualify for a particular degree in the college, a student must meet the following requirements:

• Complete 39 hours of general education courses, as specified in a separate section of this catalog.
• Complete a curriculum with at least a 2.00 average in all courses required by the program, a 2.00 average on all work taken in the LSU System, and an overall 2.00 average.
• Complete the last 30 semester hours of academic credit while enrolled in this college.
• Be approved for the degree by the faculty and the dean of the college.

MINOR FIELD

Students in the College of 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 6 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.

SPECIAL PROVISIONS OF THE COLLEGE

No more than 6 hours from ROTC; kinesiology activity courses; and band, chorus, or music skills courses will be applied to degree requirements. Additional courses beyond the 6 hours of ROTC; kinesiology activity courses; and band, chorus, or music skills may not be counted toward making up deficiencies in the grade-point average.

The pass-fail grading option is limited to courses that are electives in the degree programs.

CORRESPONDENCE AND EXTENSION CREDIT

Special restrictions apply to correspondence and extension credit used toward
degree credit. Students must have the dean's permission prior to scheduling correspondence or extension 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 and extension credit may be applied toward the degree requirements of the college.

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 studies 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 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 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

Phi Kappa Phi, a national scholastic honor society founded in 1897, now contains 243 chapters nationwide. It is one of the most prestigious scholastic honor societies in the United States. The LSU chapter was founded in 1930 as the 43rd chapter in the nation. At the present time, the national office is located on this campus in the French House.

The primary objectives of Phi Kappa Phi are to promote the pursuit of excellence in higher education and to recognize outstanding achievement by students and faculty through election to membership and through various awards and fellowships. Phi Kappa Phi is unique because it recognizes superior scholarship in all academic fields, rather than restricting membership to a limited field. Undergraduate and graduate students who rank in the top 10 percent of their graduating 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.

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

DIRECTOR • Zwirn, Professor
OFFICE • 136 Atkinson Hall
TELEPHONE • (504) 388-6885
FAX • (504) 388-2168

PROFESSORS • Carpenter, Oppermann, Shih, Theis, Zwirn

ASSOCIATE PROFESSORS • Kennedy, Markovitch, Pitts, White
ASSISTANT PROFESSORS • Anderson, Desmond, Raub, Sofranko

PROFESSIONAL-IN-RESIDENCE • Brockway
ADJUNCT FACULTY • Baqué, Brinson, Burks, Colbert, Tipton

Preparation for the profession of architecture requires both formal education and practical experience followed by a professional examination and registration.

The School of Architecture, a member of the Association of Collegiate Schools of Architecture, is accredited by the National Architectural Accrediting Board. The accredited, five-year undergraduate program leading to the Bachelor of Architecture degree includes the areas of management, humanities, technology, computer and graphic communications, and the synthesis of these areas through architectural design.

First-year architecture courses are open to any interested LSU student as space is available; however, admission into the professional program (years 2-5) is selective. Students must submit a formal application to the School of Architecture office. The application period is January through March 1 for fall entry. Admission will be approved only for the fall semester of each academic year.

Students who have successfully completed all first-year courses (or their equivalents) required in the architecture curriculum, and earned an overall GPA of 2.25 or higher by the end of the spring semester will be considered for selective admission into the professional program. Selection of a class not to exceed 51 students is made on a competitive basis in May after a review of all criteria. Students not admitted to the professional program by the School of Architecture will not be allowed to register for architecture courses other than those listed as first-year and/or general education courses.

Transfer students must first apply for admission to LSU. The application, if approved by the Office of Undergraduate Admissions, will be forwarded to the School of Design. When it is determined that the college entrance requirements are met, the application will be routed to the School of Architecture for evaluation and review. Transfer credit for architecture courses will be considered normally as substitutions for required architecture courses in the school's curriculum only if these courses have been taken as part of an architecture program.
SCHOOL OF ART
DIRECTOR • Crespo, Professor
OFFICE • 123 Art Building
TELEPHONE • (804) 388-5411

PROFESSORS EMERITI • Bova, Burke,
Cavanaugh, Dufour, Garrett, Harding, Harris
PROFESSORS • Arp, Bower, Cox, Crespo,
Daugherty, Guichet, Hausey, Huntz, Johns,
Lawrence, Lyon, Mauck, Meek, Nett,
Pranuk, Rutkowski, Warrens, Zucker
ASSOCIATE PROFESSORS • Book, Elliott,
Malvelo
ASSISTANT PROFESSORS • Blacklock, Dean,
Goodman, Joddrell, Ryan, Sanchez,
Silverman, Wright

ADJUNCT FACULTY • Bacot

LSU is an accredited institutional member of the National Association of Schools of Art and Design. Through the College of Design, the School of Art offers the professional B.F.A. degree in studio art with concentrations in ceramics, graphic design, painting and drawing, photography, printmaking, and sculpture. In addition, students concentrating in these areas may Minor in ceramics, painting and drawing, jewelry/metalsmithing, photography, printmaking, and sculpture. 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 descriptions.

Registration for all multiple credit courses taken for more than 3 credit hours in a given semester will require the prior permission of the instructor.

Bachelor of Fine Arts Degree

The Bachelor of Fine Arts (B.F.A.) degree provides a liberal education and specialized instruction needed for a professional career in the visual arts. Students transferring into the B.F.A. program may be required to submit portfolios or reproductions of their work. The art faculty will review the work of all advanced students prior to admission to the final project course required for the B.F.A. degree.

Credit earned in two-year technical or terminal degree programs and programs that, when completed, result in an "Associate in Applied Sciences" diploma may be accepted for degree credit to the extent that the courses are equivalent to degree work in the School of Art, as determined by the school’s director.

All School of Art students in the Bachelor of Fine Arts curriculum will be required to complete a series of studio art fundamentals and core courses before enrolling in 4000-level studio art courses. These courses include:

- Studio Art Fundamentals (21 credits) • ART 1001, 1011, 1012, 1762, 1847, 1848, and 1849.
- Studio Art Core Courses (12 credits) • Completion of four of the following five courses: ART 1361 (or 1371), 1551, 1661, 2655, and/or 2995.

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. • 132

FRESHMAN YEAR
SEM. HRS.
Art 1847 ............................................. 3
English 1001/1001, 1002 ......................... 6
Mathematics 1441 or 1550 ....................... 3-5
Physics 2001 ....................................... 3
General education social sciences course .... 3
General education humanities course ......... 3
....................................................... 18

Sophomore Year
SEM. HRS.
Architectural 2041, 2141, 2142, 2155, 2154, 2171, 2174 ...... 27
General education social sciences course .... 3
General education natural sciences course ... 3
Approved elective* ................................ 3
....................................................... 36

Junior Year
SEM. HRS.
Architectural 2172, 3151, 3152, 3177, 3175, 3176, 4143, 4144 ... 30
General education humanities course .......... 3
General education social sciences course ...... 3
....................................................... 36

Senior Year
SEM. HRS.
Architectural 3153, 3154, 3173, 3177, 4131 .................. 21
General education humanities course .......... 3
Approved electives* ................................ 12
....................................................... 56

Fifth Year
SEM. HRS.
Architectural 3160, 4218, 4318 .................. 19
Approved electives* ................................ 12
....................................................... 51

*Note • Approved electives must be selected in consultation with a faculty adviser.

Areas of Concentration

♦ Ceramics Area • ART 1662, 2656, 2661, 2665, 2761, 4661, 4691

♦ Graphic Design Area • ART 1551, 2995, 1361, 1371, 2544, 2552, 2555, 2564, 2881, 2883, 3524, 3544, 3554, 3564, 4534, 4555, 4564
Admission into the graphic design concentration (years 2-4) is selective. Students desiring admission should apply during the spring semester prior to the fall semester of the sophomore year. The following entrance requirements must be met before applying:

- completion of all required freshman graphic design courses or faculty-approved equivalents;
- attainment of a minimum 2.25 overall gpa at the end of the spring semester; and
- preparation of a portfolio containing examples from freshman studio courses.

Once these requirements have been satisfied, an application packet must be submitted. It should contain the following:

- an application form
- an unofficial transcript
- a letter of application and intent, and
- a portfolio of examples from freshman studio courses.

Students who are unable to meet the specified criteria for selective admission may be granted provisional acceptance, provided space is available. Transfer students from other LSU programs and from other universities will be considered according to the same standards. Individuals not admitted to the professional program will not have access to graphic design courses other than those listed in the first two semesters of the B.F.A. curriculum.

- Painting and Drawing Area • ART 2879, 2881, 2882, 2883, 4880, 4881, 4887, 4800, 4884, 4889.
- Photography Area • ART 2995, 2996, 3994, 3996, 4941, 4996, 4997.
- Printmaking Area • ART 2362, 2372, 2879, 4361, 4366, 4371, 4887, 4889.
- Sculpture Area • ART 1661, 1662, 2655, 2661, 2671, 4661, 4741, 4761, 4762.

Minor Programs

In addition to the concentrations specified above, minors in ceramics, painting and drawing, sculpture, art history, jewelry/metalsmithing, printmaking, and photography are available. Requirements are as follows:

- Art History Minor • ART 1440, 1441, and 12 hours of credit at the 4000 level or above. This minor is offered through the College of Arts and Sciences.
- Ceramics Minor • Art 1661, 2661 (repeated for 9 hours of credit), and 6 semester hours of ceramics courses at the 4000 level or above.
- Jewelry/Metalsmithing Minor • Art 2655, 2656, 4651 (repeated for 6 hours of credit), and 4655 (repeated for 6 hours of credit).
- Painting and Drawing Minor • Art 2879, 2881, 4880, 4881, 4884, and 4889.
- Photography Minor • Art 2995, 2996, 3994, and 4941 (repeated for 6 hours of credit).
- Printmaking Minor • Art 1361, 1371, 6 semester hours of printmaking courses at the 4000 level, and 6 semester hours of printmaking courses at the 4000 level.
- Sculpture Minor • Art 1762, 2761 (repeated for 9 hours of credit), and 4761 (repeated for 6 hours of credit).

Art Curricula Outside the School of Art

Other undergraduate degree programs in art are offered by academic divisions outside the College of Design. The College of Arts & Sciences offers a Bachelor of Arts in Liberal Arts degree with a concentration in studio art or 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 & 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 & Sciences. The art history area offers a wide range of courses in all major historical eras. Students graduating from this 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

CHAIR • Wachob, Associate Professor
OFFICE • 402 New Design Building
TELEPHONE • (504) 388-8422
FAX • (504) 388-8457

ASSOCIATE PROFESSORS • Daugherty, Spencer, Wachob
ASSISTANT PROFESSOR • Hebert
INSTRUCTOR • Warner
PROFESSIONAL-IN-RESIDENCE • Mathews

Interior design focuses on enclosed or interior space. A professional designer is defined by the recognized accrediting body, the National Council for Interior Design Qualification, as one who is "qualified by education, experience, and examination to enhance the function and utility of interior spaces for the purpose of improving the quality of life, increasing productivity, and protecting the health, safety, and welfare of the public."

Projects requiring the expertise of the professional interior designer range in scale and complexity from single-family residences to large commercial and institutional structures, including offices, restaurants, hotels, health-care facilities, retail stores, schools, and theatres. Business practices and methods, as well as technical information about materials, construction processes, lighting, and building code regulations are an integral part of the curriculum.

The interior designer's education and competence must also include creative problem solving, design analysis, programming, and space planning, coupled with an understanding of the relationship of interior design to all aspects of the environment. Through practice, the interior designer will develop and maintain an understanding of the art of interior design, bringing the interior designer into contact and collaboration with professionals in the related fields of architecture, landscape architecture, industrial design, graphic design, art, engineering, and the behavioral sciences.

The curriculum in interior design is accredited by the Foundation for Interior Design Education Research.

Admission into the professional program (years 2-4) is selective. Students planning to enter the professional program must make formal application for admission during the spring semester of their freshman year. The application process includes:

- a letter of intent
- a transcript of all courses completed indicating current gpa; and
- a portfolio of work from all first-year studio courses.

Transfer students from other universities or programs will be considered for admission on the same basis prior to July 1.

Students must meet the following criteria to be considered for admission into the professional program:

- completion of, or concurrent enrollment in Landscape Architecture 1153, 1182, Art 1847, and Interior Design 1051;
- an earned overall gpa of 2.25 or higher by the end of the spring semester.

Students who do not meet these criteria may apply for conditional admission on a space-available basis. Students who have not been admitted into the professional program in interior design will not be allowed to enroll in interior design courses above the first-year level. Specific questions concerning curriculum and admission should be directed to the Department of Interior Design, 402 New Design Building.

Credit earned in two-year technical or terminal degree programs and programs that, when completed, result in an "Associate in Applied Sciences" diploma may be accepted for degree credit to the extent that the courses are equivalent to degree work in the Department of Interior Design, as determined by the chair.

Course Sequence • Required major courses carrying the architecture and interior design prefixes are offered only in the semesters indicated in the catalog course description. Prerequisites are rigidly enforced.

English Proficiency • To be certified as proficient in English, students in this department must earn a grade of "C" or better in English 1002, 1003, 1005 (international students), or have the equivalent in transfer credit. Students whose grades are lower than "C" must repeat the course or earn a "C" or better in English 2002.

Grade Policy • Students majoring in interior design must maintain a minimum grade-point average of 2.00 in the major and an overall grade-point average of 2.00. Students seeking to transfer to this major program will be subject to the same grade requirements.

CURRICULUM IN INTERIOR DESIGN

TOTAL SEM. HRS. • 135-138

Approved College Electives • select 9 sem. hrs. from courses in architecture, art, interior design, and landscape architecture.
Six sem. hrs. must be in studio courses. ART 1001 may be used for degree credit.

General Electives • must be selected with approval of faculty counselor. Thirty-nine hours of general education courses must be completed as required by the University.

Business Electives • select six sem. hrs. at the 2000 level or above from courses in accounting, economics, finance, management, marketing, or quantitative business analysis. If ECON 2010, 2020, or 2030 is used as a social science elective, total business hours may be reduced to three.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>Landscape Architecture</td>
<td>1153, 1182</td>
<td>6</td>
</tr>
<tr>
<td>General</td>
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<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>1440, 1441, or 2470</td>
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</tr>
<tr>
<td>English 1000/1001, 1002</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General</td>
<td>1171</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1020/1021 or 1029</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General education natural</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>sciences courses</td>
<td>6</td>
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</tr>
<tr>
<td>Approved college elective</td>
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SOPHOMORE YEAR

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<thead>
<tr>
<th>SEM. HRS.</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>Architecture 2141, 2142, 2174, 2402</td>
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<tr>
<td>Interior Design 2750, 2751, 2770</td>
<td>15</td>
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<td>General education natural</td>
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<tr>
<td>sciences course</td>
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<tr>
<td>General education English course</td>
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<tr>
<td>General education speech course</td>
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JUNIOR YEAR

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<tr>
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<th>Course Name</th>
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<tr>
<td>Human ecology 2040</td>
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<tr>
<td>Interior Design 3741, 3742, 3752, 3753, 3770, 3774</td>
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<tr>
<td>General education analytical reasoning course</td>
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SENIOR YEAR

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<th>Course Name</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Interior Design 3754, 3755, 3760</td>
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<td>Human Ecology</td>
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<td>approved college elective</td>
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<td>General education humanities course</td>
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</tr>
<tr>
<td>General education social sciences courses or Economics 2010, 2020, 2030</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

SCHOOL OF LANDSCAPE ARCHITECTURE

DIRECTOR • Sharky, Professor
OFFICE • 802 New Design Building
TELEPHONE • (504) 388-1434

ALUMNI PROFESSOR EMERITUS • Reich
PROFESSORS • Conrad, Earle, Emerson, Haynes, Odenwald, Popadic, Sharky, Turner, Womack
ASSOCIATE PROFESSORS • Abbey, Artunc, Chaffin, Cox, Frying, Jenkins, Tornioka

Landscape architecture offers a unique career opportunity to the student concerned with the environment and the quality of life in our cities and outdoor surroundings. Landscape architecture is a discipline combining art, natural sciences, and social and cultural disciplines with a strong design and technological base. The students in the profession create and shape the places where people live, work, and play. Landscape architects design parks and recreational facilities, business parks, urban public spaces, private gardens, and are involved in the design of new communities and cities.

Work on landscape architectural projects frequently involves collaboration with other professionals. A single project may routinely involve landscape architects, architects, artists, city planners, engineers, lawyers, sociologists, geologists, economists, and environmental scientists. Such professional collaborations are a stimulating and rewarding aspect of the profession.

LSU is the only school in Louisiana with a nationally accredited curriculum in landscape architecture, attracting students from the United States and many foreign countries. The five-year curriculum affords a well-rounded course of study based on standards set by the American Society of Landscape Architects. The program integrates a rich, educational experience that provides the student with an ethical framework, an historical background, and the design and technical knowledge critical to the profession.

In addition to design, the education of landscape architects includes graphic communication, written and verbal communication, construction and engineering methods, plant material identification, design, computer applications, and basic business and legal concepts.

Graduates of this program find employment within Louisiana, throughout the south, on the east and west coasts, and overseas. Upon satisfactory completion of the undergraduate program, the degree of 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 School of Landscape Architecture should contact the school office.

Admission Requirements • A student will be admitted to the curriculum in landscape architecture subject to space availability, grade-point average, and courses completed.

Entry into the professional courses at the third-year level and higher is contingent upon available space and facilities for a class not to exceed 54 students, and the following criteria:

• Completion of the following required courses or their equivalents: BAE 2307,* ENGL 1000/1001, 1002; LA 1151, 1153, 1181, 1182, 2141,* or 2142,* or 2143,* 2152, 2171,* MATH 1020/1021, 1022. (New transfer students may enroll in courses noted with asterisks concurrently with third-year courses.)

• A 2.25 grade-point average on all courses completed and a 2.25 grade-point average on all landscape architecture courses completed.

If requests from qualified students exceed the maximum number of available spaces, an admissions committee will resolve special situations and hear appeals.

Transfer Students • Students transferring into landscape architecture from other disciplines may be admitted only after having been interviewed as indicated above.

English Proficiency • To be certified as proficient in English, students in this school must earn a grade of "C" or better in English 1002, 1003 or 1005 (international students), or have the equivalent transfer credit. Students whose grades are lower than "C" must repeat the course or earn a "C" or better in English 2002.

CURRICULUM IN LANDSCAPE ARCHITECTURE

TOTAL SEM. HRS. • 160

Thirty-nine hours of general education courses must be completed as required by the University. Students should complete these requirements by the end of their third year.

All elective courses must be approved by the school director or designated adviser.

In addition to the 6 hours of general education English courses, all students must take a 3-hour English writing or a foreign language course as an approved elective.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>Course Name</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>English 1000/1001, 1002</td>
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<tr>
<td>Landscape Architecture</td>
<td>1151, 1153, 1181</td>
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<td>Mathematics 1020/1021, 1022</td>
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<tr>
<td>General education social sciences course</td>
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SOPHOMORE YEAR

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<thead>
<tr>
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<tbody>
<tr>
<td>Architecture 2401</td>
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<tr>
<td>Biological &amp; Agricultural Engineering 2307 or Civil Engineering 2500, 2510</td>
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<tr>
<td>Landscape Architecture 1182, 2112, 2141 or 2142 or 2143, 2152, 2171, 3000</td>
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JUNIOR YEAR

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<th>Hours</th>
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<tr>
<td>Landscape Architecture 2121, 2183, 3122, 3153, 3154, 3173, 3183, 4174</td>
<td>27</td>
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<tr>
<td>Landscape Architecture 2141, 2142, or 2143</td>
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SENIOR YEAR

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<tr>
<th>SEM. HRS.</th>
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<tr>
<td>Landscape Architecture 4156, 4157, 4158, 4175, 4195</td>
<td>19</td>
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<td>General education humanities course</td>
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<tr>
<td>General education social sciences course</td>
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<tr>
<td>Approved electives</td>
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<tr>
<td>Approved electives</td>
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FIFTH YEAR

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<th>SEM. HRS.</th>
<th>Course Name</th>
<th>Hours</th>
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<tr>
<td>Landscape Architecture 4251, 4252, 4276, 4291, 4292</td>
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<tr>
<td>Approved electives</td>
<td>17</td>
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<tr>
<td>Approved electives</td>
<td>32</td>
<td></td>
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</tbody>
</table>
Effective with the 1992-93 General Catalog, LSU's College of Education offers extended programs in teacher education. As a member of the Holmes Group, a national consortium of colleges of education, the college has significantly redesigned its traditional four-year certification and degree programs. The teacher education programs described below, which began in the summer of 1992, are based on the finest traditions in preparing teachers at LSU. At the same time, new courses and curricula are designed to develop a new kind of teacher leader for tomorrow's schools—teacher leaders who are reflective in practice and actively involved in a research tradition.

Curricula for elementary education majors are five-year programs integrating undergraduate and graduate courses. Secondary and K-12 programs require an undergraduate degree, including specified courses in the teaching area, before admission into the College of Education's fifth-year graduate program. All elementary, secondary, and K-12 teacher education students will be expected to meet Graduate School admission requirements. Students who complete the extended programs will earn the Master of Education degree and will be recommended for state teaching certification at the end of the fifth year.

Students will progress through teacher education programs in small groups, or cohorts, of 14-16 students. Each cohort will be advised and directed by a mentor/adviser in the College of Education. Elementary education cohorts will be informal advising cohorts until the fifth year of study. At that time, cohorts will be reformed to reflect students' special interests in teaching. Secondary and K-12 students will be placed in cohorts according to their teaching areas.

Students who entered the University under the 1991-92 LSU General Catalog will be given the option of completing the existing four-year program in teacher education or applying for admission to one of the new graduate degree programs that begin with this catalog.

It is essential to note that freshmen who entered the University in the fall of 1991, and all others who may have entered the University under earlier catalogs, may pursue the former programs in teacher education provided the program can be completed by the end of the 1995-96 academic year.

Students anticipating careers in teaching should contact the Office of Student Services, College of Education, to declare their interest and to obtain additional information. Students pursuing careers in elementary education are especially urged to seek advice from the College of Education as early as possible. Specific general education requirements necessitate early and continuous advising by the college.

Preparing teachers is the primary purpose of the College of Education. A four-year undergraduate degree in education is part of, but does not fully prepare students for elementary certification. Elementary majors must incorporate information from both this catalog and the Graduate Bulletin in planning programs. Fifth-year programs, described in the Graduate Bulletin, are designed for prospective teachers of art, English, foreign languages, mathematics, social studies, sciences, health and physical education, and vocational education. The College of Education works closely with other colleges in advising undergraduates who anticipate careers in teaching.

All College of Education teacher education programs are fully accredited by the National Council for Accreditation of Teacher Education.

Students who are continuing in the traditional four-year programs should consult the 1990-91 General Catalog and/or see the Office of Student Services for continuing advising. No new students were admitted to these programs after the fall of 1992. Students already enrolled in the traditional four-year programs must complete them by spring of 1996.

TEACHER EDUCATION PROGRAMS IN OTHER COLLEGES

Programs in agricultural education, business education, home economics education, and industrial education are offered through the School of Vocational Education in the College of Agriculture. Students may also prepare for nursery school-kindergarten teaching through the School of Human Ecology in the College of Agriculture. Students may prepare for teaching vocal or instrumental music through the School of Music. Students may pursue a Speech and Hearing Program through the College of Arts & Sciences.

STUDENT RESPONSIBILITY

Students in this college bear final responsibility for selection of their academic programs and adherence to all published regulations and requirements of the college and the University. Each student must see a counselor for a final degree checkout during the semester prior to the semester in which the degree is to be awarded.

GENERAL ADMISSION REQUIREMENT

Students on University scholastic and attendance probation will not be admitted to the college.
OBJECTIVES OF TEACHER EDUCATION

Teacher education curricula at LSU are designed to prepare professionals who will become teacher leaders in elementary, middle, and senior high schools. Developing such teacher leaders begins with carefully selected candidates who acquire a strong general education. An in-depth understanding of at least one subject area is required for both elementary and secondary teachers. Extensive clinical practice will be offered in specially designated Professional Development Schools in local parishes. An interactive partnership of Graduate Faculty mentors, clinical faculty, and master teachers in the schools will guide students through clinical experiences. The students will be informed through graduate course work and supported by individual research and collaborative learning.

A primary goal of the College of Education's teacher education programs is the preparation of professionals with the intellectual skills and spirit to ask questions and to pursue the answers to those questions throughout their careers. Accordingly, all programs will emphasize the teacher as a reflective practitioner, and will lead to the development of teachers into enlightened researchers and consumers of research in the classroom.

GENERAL INFORMATION

Specific program application guidelines for secondary, elementary, and K-12 programs are available from the College of Education, Office of Student Services, for all program areas.

Teacher education degree programs offered by the College of Education on the LSU campus include a graduate year in education leading to the M.Ed. degree. Students interested in teacher education should consult the Graduate Bulletin for information regarding Graduate School application guidelines. Students should be admitted to the Graduate School before beginning the fifth year of study in elementary or secondary and K-12 programs.

As a result of Act 836 of the 1984 Louisiana Legislature, all students in teacher education programs must obtain satisfactory scores on the General Knowledge Examination (minimum score of 644), and the Communication Skills Examination (minimum score of 645) from the core battery of the National Teacher Examination (NTE). Elementary education students must complete these examinations before admission to the junior year of the teacher education program.

BASIC DEGREE REQUIREMENTS OF THE COLLEGE

All undergraduate students are required to:

1. Complete a minimum of 128 semester hours with a minimum gpa of 2.50 on all work taken (2.75 gpa required in Holmes Program);
2. Complete the final 30 semester hours of work in residence in the College of Education on the LSU campus;
3. Satisfactorily complete an approved program of teacher education that has been determined and approved by the faculty of this college, the LSU Teacher Education Council, and the Louisiana Board of Elementary and Secondary Education.

PROFICIENCY IN ENGLISH

To be certified as proficient in English, students in this college must earn a grade of "C" or better in English 1002, 1003, 1005 (international students), 2001, or 2002 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 college will be dropped from the college.

NATIONAL TEACHER EXAMINATION

A satisfactory score on the Core Battery and Specialty Area Exam of the National Teacher Examination (NTE) is required for teacher certification in Louisiana. Specific information and registration forms are available in the Office of Student Services, College of Education.

COLLEGE OF EDUCATION • UNDERGRADUATE DEGREES

<table>
<thead>
<tr>
<th>Departments</th>
<th>Curricula</th>
<th>Degrees</th>
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<tr>
<td>Department of Administrative</td>
<td>Elementary Grades Education</td>
<td>Bachelor of Science</td>
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<tr>
<td>&amp; Foundational Services</td>
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<tr>
<td>Department of Curriculum</td>
<td>Kinesiology</td>
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<td>&amp; Instruction</td>
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<td>Department of Kinesiology</td>
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<tr>
<td>University Laboratory School</td>
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CORRESPONDENCE AND EXTENSION CREDITS

Up to one-fourth of the number of hours required for the baccalaureate degree may be taken through the Division of Continuing Education by correspondence study, extramural courses, or both. Students should not schedule correspondence or extramural course work during the last 30 hours of their programs.

Time limits for correspondence study will be imposed in order that these courses cause as little conflict as possible with regular classes. Students with questions regarding correspondence study or extramural courses should contact the College of Education, Office of Student Services.

ELEMENTARY GRADES EDUCATION • HOLMES 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 April 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 overall gpa admission requirement of 2.75 or higher, and who have also met the NTE requirement. Meeting the minimum admission requirement does not guarantee admission to the elementary education junior year cohorts.
- Students not admitted into junior-year cohorts by the time they have completed 75 hours will be dropped from the College of Education.
- 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 college.
- No final grade lower than "C" will be accepted in any professional or specialized education course that is required for certif-
ications, regardless of a student's overall grade-point average.
• Students in elementary education cohorts should take the Graduate Record Exami-

nation (GRE) before the senior year.

ELEMENTARY GRADES
EDUCATION (HOLMES CURRICULUM)

TOTAL SEM. HRS. • 134

*Students must take at least one course marked with an asterisk.

In selecting electives, an emphasis on multicultural and environmental issues
is encouraged.

The four-year curriculum is prerequisite to the Holmes Program graduate year in
which student teaching and other certification requirements are completed.

FRESHMAN YEAR SEM. HRS.
Anthropology 1003 or 2051 ................................................. 3
Biology 1001, 1002, 1005 ................................................. 8
English 1001/1001, *1002* .................................................. 6
Art (select from ART 1001, 1011, 1440, *1441, 2470,* or EDCI
2271, 2272) ................................................................. 3
Geography 1001 or 1003 ..................................................... 3
Mathematics 1020/1021 or 1029 ........................................ 3
Mathematics 1100 ............................................................ 3
Music (select from MUS 2170, 2171, 1751, *1752, 1753,*
1754,* or 1799*) .............................................................. 3

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SOPHOMORE YEAR SEM. HRS.
Academic concentrate ...................................................... 3
EDCI 3000 or elective in ROTC .......................................... 3
English/EDCI 3222 .......................................................... 3
English 2001 ................................................................. 3
English 3020, 3022, 2025, 2027, 2148, or 3070 ...................... 3
Mathematics 1201, 1202 ................................................... 6
Physical Science 1001 ..................................................... 3
Psychology 2060 ............................................................ 3
Psychology 2076,* or 2078* .............................................. 3
Science elective ............................................................... 3

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JUNIOR YEAR SEM. HRS.
Academic concentrate ...................................................... 3
EDCI 2030, 340 ............................................................... 6
English 3020, 3022, 2025, 2027, 2148, or 3070 ...................... 3
History (must choose one of two courses in a sequence) .......... 6
History 3071 ................................................................. 3
Kinesiology 2577 ............................................................ 4
Speech Communication 2010, 2040 .................................... 3
2060, 2063, or 2862 .......................................................... 3
Elective or ROTC ............................................................ 3

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SENIOR YEAR SEM. HRS.
Academic concentrate ...................................................... 3
EDCI 3125, 3126, 3127 ...................................................... 6
EDAF 4507 ................................................................. 3
EDCI 4460 ................................................................. 3
EDCI 3200 ................................................................. 6
History 3115 ................................................................. 3
Electives ................................................................. 3

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FIFTH YEAR SEM. HRS.
EDCI 7480 ................................................................. 6
EDCI 7481 ................................................................. 6
EDCI 7482 ................................................................. 3
EDCI 7483 ................................................................. 3
EDCI 7484 ................................................................. 3
EDCI 7485 or Internship (12) ............................................ 3
Graduate elective (reading or language arts) .......................... 3
Graduate elective ............................................................ 3

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1Certification for grades 1-4.
2Certification for grades 5-8.
3For graduate credit only. Does not count toward B.S. degree. Graduate credit is dependent on admission to Graduate School.

Graduate Year

In addition to the requirements that students in all programs must meet, students in the Holmes five-year elementary education program must:
• Complete undergraduate course work with a GPA of at least 2.75, and graduate
in the fifth year with a GPA of at least 3.00; and
• Complete the program with no grade lower than a "C" in professional education
courses.

Secondary and K-12 Programs

• Graduate year, subject-specific cohorts will be formed in the College of Education
for graduate study in secondary or K-12
teacher education programs leading to
teacher certification. Secondary teacher
courses include English, mathematics, social
studies, and science. K-12 teaching areas
include art, foreign languages, and health
and physical education.
• Students interested in a 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
where the student’s academic major is
located.
• Completed materials for application to the
fifth-year, subject-specific cohorts should be received in the Office of Student Ser-
vice at least before April 1 for students to be
guaranteed consideration for the graduate-level course work that begins in the
summer term. Students who apply after
April 1 cannot be guaranteed consider-
ation. Application procedures assume prior
admission to the LSU Graduate School.
• Admission decisions are contingent upon admission to the LSU Graduate School.

• Applicants may include candidates with
degrees, as well as seniors finishing their
programs in the various academic areas. In
general, applicants will be expected to
have completed all but six hours of courses required for teacher certification in
their subject area.
• Meeting minimum requirements, including
an undergraduate degree in an appropri-
ate field and admission to the LSU Gradu-
ate School, does not guarantee admission to
the fifth-year teacher education pro-
gram. A College of Education admissions
panel will select from among qualified
applicants those students to be admitted
into the subject-specific, fifth-year cohorts.
• No final grade lower than “C” will be ac-
cepted in any professional or specialized
education course that is required for certi-
fication, regardless of a student’s overall
grade-point average.
• Secondary and K-12 students must com-
plete the NTE requirement before the end of
the fall semester of the fifth year.

ALTERNATE POST-
BACCALAUREATE SECONDARY CERTIFICATION PROGRAM

Individuals who have completed a bac-
calaureate degree from an accredited institu-
tion with a major or other concentration in a
teacher certification area with a GPA of 2.50
may be eligible for the “Alternate Post-Bac-
calaureate Certification Program” for K-12
and secondary teachers. Preference will be
given to individuals already employed as
teachers on temporary certificates. Informa-
tion regarding this program is available as
the Office of Student Services, College of
Education, 236 Peabody Hall.

ALTERNATE POST-
BACCALAUREATE ELEMENTARY (GRADES 1-4) CERTIFICATION PROGRAM

Students with a bachelor’s degree who
are interested in this program should contact
the College of Education, Office of Student
Services, for information.

PHI KAPPA PHI

Phi Kappa Phi, a national scholastic
honor society founded in 1897, now contains
243 chapters nationwide. It is one of the most
prestigious scholastic honor societies in the
U.S. The LSU chapter was founded in 1930
as the 43rd chapter in the nation. At the present
time, the national office is located on this
campus in the French House.

The primary objectives of Phi Kappa Phi are
to promote the pursuit of excellence in
higher education and to recognize out-
standing achievement by students and faculty
through election to membership and through
various awards and fellowships. Phi Kappa
Phi is unique because it recognizes superior
scholarship in all academic fields, rather than
restricting membership to a limited field.

Undergraduates and graduate students
who rank in the top 10 percent of their gradu-
Retention in the College

All Teacher Education Programs • In view of its responsibility to the teaching profession, the college reserves the right to review at any time a student’s suitability to continue in a teacher education program. Faculty members are encouraged to monitor the growth of prospective teachers enrolled in the college.

Four-Year Programs • To remain in a four-year program in the college, students must meet the following retention criteria:
- All students are expected to earn a grade of “C” or better in one of the following courses, or have the equivalent in transfer credit: ENGL 1002, 1003, 1005 (international students), 2001, or 2002. Students who fail to do so must repeat the course or pass the English proficiency examination. Any student declared not proficient within three semesters after entering the college will be dropped from the college.
- Students enrolled in the college who are on scholastic probation will be dropped from the college for failure to earn a 2.00 gpa during any semester.
- Students enrolled in the college who fail to earn a 2.00 gpa for two consecutive semesters will be dropped from the college.
- Students within 14 semester hours of graduation who are not qualified for student teaching will be dropped from the college.

Kinesiology • Admission into the College of Education

- Students intending to concentrate in fitness studies or human movement science who have earned a minimum of 24 semester hours with a 2.20 gpa are eligible to enter the college.
- Students intending to concentrate in sport studies, which leads to the fifth-year or graduate program, and who have earned a minimum of 24 semester hours with a 2.50 gpa are eligible to enter into the college.

Completion of Degree

Degrees in non-teaching areas in this college are conferred when the following conditions have been met:
- Completion of a minimum of 128 semester hours with an average of 2.50 on all work taken, with no grade less than “C” in specialized academic courses for fitness studies and human movement concentrations. The sports studies concentration requires a minimum of 128 semester hours with an average of 2.75 on all work taken, with no grade less than “C” in specialized academic courses.
- Completion of the final 30 semester hours of work in residence in the College of Education on the LSU campus.
- Completion of the appropriate approved curriculum.
- Proficiency in written expression.

English Proficiency

To be certified as proficient in English, students must earn a grade of “C” or better in ENGL 1002, 1003, 1005 (international students), 2001, or 2002, or have the equivalent in transfer credit. A student who earns a grade lower than “C” must repeat the course. Any student not declared proficient within three semesters after entering the college will be dropped from the college.

Retention Criteria

To remain in the college, students must meet the following retention criteria:
- All students are expected to be proficient in English.
- Students enrolled in the college who are on scholastic probation will be dropped from the college for failure to earn a 2.00 gpa during any semester.
- Students enrolled in the college who fail to earn a 2.00 gpa for two consecutive semesters will be dropped from the college.

DEPARTMENTS & SCHOOLS

DEPARTMENT OF ADMINISTRATIVE & FOUNDATIONAL SERVICES

CHAIR • Lomotey, Associate Professor
OFFICE • 111 Peabody Hall
TELEPHONE • (504) 388-6900

PROFESSORS • Davis, Elliott, Geske, Hosie, Maxy, Pierce, Rankin, Teddile
ASSOCIATE PROFESSORS • Fossey, Fox, Girtner, Lomotey, MacGregor, Mackey, Tashakkori, Taylor
ASSISTANT PROFESSORS • Bateman, Garvin, Kennedy, Spruill, Taylor
INSTRUCTOR • Heroman

The Department of Administrative & Foundational Services offers programs in educational research methodology, counselor education, and educational administration and supervision. The department also provides services to the educational organizations in Louisiana and is the basic link to professional associations at the local, state, regional, and national level. An emphasis on reflective practice characterizes professional preparation programs in this department.

DEPARTMENT OF CURRICULUM & INSTRUCTION

CHAIR • Mathews, Professor
OFFICE • 1023 Peabody Hall
TELEPHONE • (504) 388-8887

PROFESSORS • Cheek, Good, Hamblen, Lafayette, Mathews, Pinar, Soderbergh, Strawitz
ASSOCIATE PROFESSORS • Denny, Doll, England, Kirshner, Kohli, Spivey, Wandersee
The department conducts research in the various areas of curriculum and instruction and prepares students for educational careers, including elementary and secondary teaching. The program offers a broad general education, followed by graduate professional preparation for teaching. Courses in methods and techniques that feature field-based teaching prepare students for the classroom. The department emphasizes reflective analysis as a primary focus of the program.

DEPARTMENT OF KINESIOLOGY

CHAIR • Franks, Professor
OFFICE • 112 Long Fieldhouse
TELEPHONE • (504) 388-2036
FAX • (504) 388-9860

PROFESSORS • Franks, Lee, Magill
ASSOCIATE PROFESSORS • Carter, C. Hill, Landin, Sidaway, Worthy
ASSISTANT PROFESSORS • Glickman-Weiss, Heise, Morris, Nelson, Solmon
INSTRUCTORS • Harrison, K. Hill, Purdy

The Department of Kinesiology provides graduate and undergraduate programs for students interested in the art and science of human movement. An undergraduate degree in this department provides a broad, general education, with necessary supporting courses in basic sciences, core courses in the kinesiology body of knowledge, and a sequence of courses in an area of concentration. A limited selection of sport and fitness activity classes fundamental to kinesiology majors is available to other majors as electives. Students are prepared to be reflective in their professional practice.

CURRICULUM IN KINESIOLOGY

TOTAL SEM. HRS. • 128-130

FRESHMAN YEAR SEM. HRS.
Biology 1201, 1208 ....... 4
English 1000/1001, 1002 ....... 6
Kinesiology activity course ....... 1
Mathematics 1020/1021, 1022 ....... 6
General education social sciences course ....... 6
Kinesiology 2501 ....... 3
Area requirement ....... 3
General education arts course ....... 3

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SOPHOMORE YEAR SEM. HRS.
Kinesiology 2500 ....... 3
Kinesiology activity courses ....... 2
Kinesiology 2504 ....... 2

3

Physics 2001 ....... 3
Speech Communication 2060 ....... 3
Biology 1200, 1209 ....... 3
Humanities elective ....... 3
Area requirement ....... 6
General electives ....... 6

JUNIOR YEAR SEM. HRS.
Kinesiology 3513 ....... 3
Kinesiology activity course ....... 1
Zoology 1202, 1209 ....... 6
Humanities elective ....... 3
Kinesiology 3502, 3503 ....... 5
Area requirement ....... 10
General elective ....... 9

34

SENIOR YEAR SEM. HRS.
Kinesiology 3514, 3515, 4520 ....... 9
Kinesiology 4512 ....... 3
Area requirement ....... 9
General electives ....... 30-32

Areas of Concentration

All students majoring in kinesiology in the sports studies concentration are strongly encouraged to select a minor utilizing their free elective hours.

♦ Sport Studies Area (28 hrs.)
   • Required Courses (5 hrs.)—KIN 1133, 1156, 2540.
   • Six hrs. from: KIN 3507, 3533, 3534; SOCL 3501, 3601; PHIL 3001, 3002, 4015; POLI 4013; PSYC 3082, 4070; EDAF 4040; EXST 4001; EDAF 4006.
   • Three hrs. from: KIN 2511, 2515, 2516, 2517, 2518, 2519, 2525, 2526, 2530.
   • Nine hrs. from: KIN 1600, 2600, 2603, 2604, 2577, 3605, 3608, 4601, 4605.
   • Two hrs. from: KIN 1126, 1411, 1427, 1428, 1429, 1430.

♦ Fitness Studies Area (28hrs.)
   • Required Courses (12 hrs.)—KIN 3533, 3534, 4538.
   • Sixteen hrs. from: KIN 1600, 2601, 2603, 3504, 3602, 3605, ACCT 2000; BCH 2083, 2084, 4087; BADM 1001; HUEC 1010, 2010, 4010; EXST 2095, 2201, 4001; CSC 1100, 2260; FDSC 1049; ZOOL 2153, 2161; PSYC 2000, 2078, 3050, 3082, 4070; VPT 2001.

♦ Human Movement Science Area (28-30 hrs.)
   • Pre-Physical Therapy Graduate Study (14 hrs.)—CHEM 1201, 1202, 1212; PSYC 2000, 3082.
   • Premedicine (16 hrs.)—CHEM 1201, 1202, 1212, 2261, 2262, 2564.
   • Pre-Kinesiology Graduate Study (15 hrs.)—CSC 1248; PHIL 4951; 9 hrs. of approved electives (list available from the department).
   • Athletic Training (14 hrs.)—KIN 3504, 3505, and 6 hrs. of approved electives.

Kinesiology Minors

♦ Sports Studies, 21 sem. hrs.: KIN 2500, 2501, three activity classes, 12 hrs. above the 3000 level.
♦ Health Sciences, 18 sem. hrs.: KIN 1600; 6 sem. hrs. selected from KIN 2600, 2603, 2604, 2577; 9 hrs. from KIN 3605, 3608, 3660, 4601, 4602, 4605.

UNIVERSITY LABORATORY SCHOOL

ACTING PRINCIPAL • Bowman
ASSOCIATE PRINCIPAL • Wickershaw
OFFICE • 149 Laboratory School
TELEPHONE • (504) 388-3221
FAX • (504) 388-3326


The University Laboratory School, an integral part of the College of Education, is maintained 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 giving instruction to children, demonstrating teaching procedures to student teachers and observers, developing innovative programs, conducting educational research, and acquainting pre-service and in-service teachers with approved and tested teaching procedures and viewpoints.

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 have opportunities to utilize the school for research studies.

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. Students who attend the Laboratory School must reside with their parents.

A tuition fee is charged for each pupil in grades K through 12. These fees are payable in advance in August and January.
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 biological sciences, English composition, the arts, humanities, and social sciences.

The College of Engineering includes seven degree-granting departments, the Hazardous Waste Research Center, the Water Resources Research Institute, the Institute for Recyclable Materials, and the Remote Sensing & Image Processing Laboratory. Activity within the college is located in the Center for Engineering and Business Administration (CEBA) Building. 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 IN MATHEMATICS AND PHYSICS**

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 Bachelor of Science degrees in the College of Engineering.

Proficiency in college-level mathematics and physics is essential to successful completion of upper-division engineering courses. 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, PE/TE 3025 may be taken. 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 Junior Division, by transfer from another division of LSU, or from another approved college or university. **Junior Division students** will be admitted to the college if they meet the following conditions:

- completion of 24 or more semester hours of credit in courses numbered 1000 or above;
- LSU and overall gpa of 2.00 or better;
- credit for or eligibility to schedule analytical geometry and calculus (MATH 1550).

**Students from other campuses of the LSU System or other divisions of the University** will be admitted if they comply with the above requirements for admission of Junior Division students.

**Students who have taken all or part of their academic work at other institutions** and have attempted at least 24 but fewer than 60 hours will be considered for admission as though all work had been attempted in Junior Division. Those students who have attempted fewer than 24 hours must seek admission to Junior Division. Students who have attempted at least 60 hours with an overall gpa of at least 2.50 and have credit in or eligibility for the first calculus course required in engineering will be admitted.

Students who have attempted at least 60 hours with an overall gpa of at least 2.00 but less than 2.50 will be considered for admission on the basis of the dean’s evaluation of the entire academic record. Students so admitted may be placed on college probation with written conditions for continued enrollment.

See the section, “Undergraduate Admissions,” in this catalog for application deadlines.

**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 Accreditation Board for Engineering and Technology.
### COLLEGE OF ENGINEERING • UNDERGRADUATE DEGREES

<table>
<thead>
<tr>
<th>Departments</th>
<th>Curricula</th>
<th>Degrees</th>
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</thead>
<tbody>
<tr>
<td>Biological &amp; Agricultural Engineering</td>
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<td>Bachelor of Science in Biological &amp; Agricultural Engineering</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>Chemical Engineering</td>
<td>Bachelor of Science in Chemical Engineering</td>
</tr>
<tr>
<td>Civil &amp; Environmental Engineering</td>
<td>Civil Engineering</td>
<td>Bachelor of Science in Civil Engineering</td>
</tr>
<tr>
<td>Electrical &amp; Computer Engineering</td>
<td>Electrical Engineering</td>
<td>Bachelor of Science in Electrical Engineering</td>
</tr>
<tr>
<td>Industrial &amp; Manufacturing Systems Engineering</td>
<td>Industrial Engineering</td>
<td>Bachelor of Science in Industrial Engineering</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>Mechanical Engineering</td>
<td>Bachelor of Science in Mechanical Engineering</td>
</tr>
<tr>
<td>Petroleum Engineering</td>
<td>Petroleum Engineering</td>
<td>Bachelor of Science in Petroleum Engineering</td>
</tr>
</tbody>
</table>

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.

### 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.
- Achieving a 2.00 average, as required by the University, for all work taken at LSU and on all work attempted at U.S. institutions.
- Achieving a 2.00 average on all courses attempted in the major department at LSU and on all work attempted in the major field at U.S. institutions (with the exception of ME 3333 for mechanical engineering; EE 2950, 3950, and 3951 for electrical or computer engineering; and CE 2081, 3082, and 3083 for civil engineering).
- Successfully completing a minimum of 30 hours of residence in the engineering department in which the degree is to be received. (These residence hours must include 15 hours of required engineering courses or approved technical electives at the 3000 or 4000 level. Nine hours of these courses must be at the 4000 level in the major. The individual courses used to satisfy the 30-hour residency requirement must be approved by the department chair.)
- Initiating the checkout procedure with the departmental counselor 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 Student Records & Registration.
- Demonstrating proficiency in English. Proficiency is defined as a grade of “C” or better in all required English courses in the student's curriculum (ENGL 1000/1001, 1002, and, if required, 3002).

### COLLEGE POLICY FOR “D” GRADES AND REPETITION OF COURSES

Only those courses in which grades of “D” or “P” were earned may be repeated. A student who earns a “D” or “P” in a course in which a minimum grade of “C” is required must register for the course again in the next regular semester in which the student is enrolled and the course is offered. Students within 24 hours of graduation cannot duplicate sophomore-level courses in the major field.

### READMISSION AFTER SCHOLASTIC DROP

A student dropped from the University who seeks 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. Consistent with University regulations, students may earn no more than one-fourth of the number of hours required for the bachelor’s degree through correspondence study. In addition, no more than six hours of credit earned through correspondence study may be applied to a student’s general education requirement.

Students not registered in campus courses may enroll in correspondence courses for degree credit; however, students who have been dropped from the University may not enroll in correspondence courses for degree credit. If students are to be simultaneously enrolled in campus and correspondence courses, enrollment in correspondence courses must be completed by the final date for adding courses, including the summer term. The deadline for completion of all correspondence course work is the last day of classes for the semester during which the student is enrolled.

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.

To earn a minor in environmental engineering, students in the College of Engineering must complete CE 3110, 4125 or 4150; CHE 4255; and three courses chosen from an approved list available in the dean’s office.

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 6 hours must be at the 4000 level.

A minor in surveying is available for students wishing to become licensed as professional land surveyors. Enroll in any University major may pursue this program. The State of Louisiana Revised Statutes 37:693.B(3b) and (4f) specify the educational requirements necessary for licensing. These requirements are a bachelor’s degree; CE 3500, 4525, 4550, and GEOG 2039; and six courses chosen from CE 4500, 4560, IE 1001, 2185, GEOG 2055, 4019, 4020, 4040, 4043, 4047, 4049, and 4355.

To earn a minor in technical sales, a student in the College of Engineering must complete ENGL 3002, PSYC 2000, ACCT 2000 or 2001, FIN 3201, IE 3201, MGT 3200, MKT 3401, SPCM 2010, and a one-hour practicum course. An overall GPA of 2.0 in these courses is required.

Students who return to campus after having completed their undergraduate degrees and who complete the surveying or technical sales minors will be issued a certificate by the college.

Any interested student must contact a counselor in the college to declare the intended minor and select additional required courses.

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.

Students must attain a minimum 2.00 average on all work scheduled while enrolled in the College of Engineering and on all work subsequent to receipt of the first degree. A student whose first degree was obtained elsewhere must also satisfy all the admission requirements of the college, as previously listed.

GRADUATE PROGRAMS

The college offers the Master of Science and the Doctor of Philosophy degrees through the Graduate School. The Master of Science program emphasizes fundamental theory and is mostly research-oriented. It is offered in agricultural, chemical, civil, electrical, industrial, mechanical, nuclear, 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 advisory body whose members are the elected representatives of the various professional and honorary engineering 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 PROGRAMES

The college offers a cooperative education program in civil, chemical, industrial, mechanical, electrical, and computer engineering. 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 (nominal fee) to be considered formally affiliated with the University. For additional information concerning this cooperative program, please see “Career Planning, Placement, & Co-op Opportunities” in the section “Student • University Services.”

The College of Engineering conducts a Drafting Institute, in cooperation with the Division of Continuing Education, which is designed to prepare students to work as draftsmen. The course includes traditional drafting as well as modern computer graphics and computer-aided design. By taking additional university courses, students can acquire the competence needed for employment as engineering technicians or engineering technologists. Upon completion of the institute, any students continuing to take courses on a regular or part-time basis on the LSU campus may take advanced-standing examinations and receive degree credit for Industrial Engineering 1001.

For information about the Drafting Institute or the procedures for obtaining this credit, students should contact the Division of Continuing Education.

PHI KAPPA PHI

Phi Kappa Phi, a national scholastic honor society founded in 1897, now contains 243 chapters nationwide. It is one of the most prestigious scholastic honor societies in the U.S. The LSU chapter was founded in 1930 as the 43rd chapter in the nation. At the present time, the national office is located on this campus in the French House.

The primary objectives of Phi Kappa Phi are to promote the pursuit of excellence in higher education and to recognize outstanding achievement by students and faculty through election to membership and through various awards and fellowships. Phi Kappa Phi is unique because it recognizes superior scholarship in all academic fields, rather than restricting membership to a limited field.

Undergraduate and graduate students who rank in the top 10 percent of their graduating 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.

DEPARTMENTS AND CURRICULA

Each curriculum is designed to include the University general education requirements as follows:

- **English Composition**—English 1000/1001 and 1002. International students may substitute English 1004 and 1005. Honors students may elect Honors 1001 or 1011 in place of English 1002.

- **Analytical Reasoning**—MATH 1020/1021 is considered to be preliminary to the engineering curriculum. Credit is usually obtained by placement. MATH 1550 or the equivalent honors course, MATH 1551, completes the requirement.

- **Natural Sciences**—This requirement is met through required course work. Chemistry 1201 and 1202 or Physics 2101 and 2102 are marked in the curriculum. The equivalent honors courses are Chemistry 1431 and 1432, and Physics 1201 and 1202.

- **Biological Sciences**—Three-hour elective in any curriculum except biological and agricultural engineering, which specifies Biology 1201.

- **Arts, Humanities, and Social Sciences**
- Courses must meet the requirements of the Accreditation Board for Engineering and Technology, as well as those of the University. Therefore, the following restrictions are to be observed in their selection:
  - Courses must be selected from the current official list (approved by the college) of arts, humanities, and social sciences electives, available in the dean’s office. Some courses on the University list are not on the college list.
  - One three-credit course must be taken in the arts.
  - Three three-credit courses must be taken in the humanities.
  - Two three-credit courses must be taken in the social sciences.
  - A maximum of 6 semester hours may be taken at the 1000 level from the arts, humanities, and social sciences combined.
  - At least two courses must be selected from the same department.
  - Individual curricula may have specific course requirements, e.g., Economics 2030 as a required social sciences course.

In each curriculum the courses that are to be used to fulfill the general education requirement are marked with an “a”.

Transfer students must meet the above requirements in the selection of arts, humanities, and social sciences electives.

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. Students are to check with their departments on the selection of these electives.

Six hours of credit earned in ROTC may be applied toward satisfaction of unrestricted electives in all engineering curricula.
DEPARTMENT OF BIOLOGICAL & AGRICULTURAL ENGINEERING

HEAD • Verma, Professor
OFFICE • 148 Doran Agricultural Engineering Building
TELEPHONE • (504) 388-3153
FAX • (504) 388-3492

PROFESSORS • Bengston, Brown, Lawson, Parish, Slattier, Stipe, Verma, Wright
ASSOCIATE PROFESSORS • Edling, Maiander, Robbins, Velupillai, Wells
ASSISTANT PROFESSOR • Osem
ADJUNCT FACULTY • Carter, Fous, Rogers

The curriculum in biological and agricultural 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 is offered through the College of Engineering and is accredited by the Accreditation Board for Engineering and Technology (ABET). Graduates are well 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 AND AGRICULTURAL ENGINEERING

TOTAL SEM. HRS. • 136

Engineering Design Electives (select three from this group) • Biological and Agricultural Engineering 3374, 3381, 4307, 4330, 4360, 4374, 4380; Chemical Engineering 4260; Industrial Engineering 3603, 4461; Mechanical Engineering 4133.

Specialty Electives • Agronomy 2051; Biochemistry 4087; Chemistry 2262, 2364; Civil Engineering 3500, 3110, 4120; Chemical Engineering 4253; Food Science 4000; Microbiology 2051; Physics 2108, 2109.

General education required courses are marked with asterisks (*).

Students planning to enter medical, dental, or veterinary school must take PHYS 2108 and 2109.

FRESHMAN YEAR

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<td>Plant Biology</td>
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Engineering design elective • 3
English 3002 or ROTC • 3
Mechanical Engineering 3133 • 3
Mechanical Engineering 3157 • 3
Chemical Engineering 3172 • 4

SENIOR YEAR

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</table>

Approved technical electives • 5

DEPARTMENT OF CHEMICAL ENGINEERING

INTERIM CHAIR • Pike, Professor
OFFICE • 110 Chemical Engineering Building
TELEPHONE • (504) 388-1426
FAX • (504) 388-1476

JESSE JUALLAT PROFESSOR OF CHEMICAL ENGINEERING • Thibodeaux
PAUL M. HORTON PROFESSOR EMERITUS OF CHEMICAL ENGINEERING • Groves
HENRY J. KAISER/KAISER ALUMINUM PROFESSOR • Wetzel
ALUMNI PROFESSOR • Harrison
PROFESSORS • Collier, Corripio, Griffin, Groves, Harrison, Knopf, McLaughlin, Pike, Price, Reible, Rice, Sterling, Thibodeaux
ASSOCIATE PROFESSORS • Dooley, Hjorts, Wetzel
ASSISTANT PROFESSOR • Henson
INSTRUCTORS • Cygan, Hadlock

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; and material production: biochemical engineering; instrumentation; computer automation, control, and modeling; biomedical engineering; oceanography; energy; food processing; systems engineering; and manufacturing.

Louisiana and the Gulf Coast region lead the nation in growth of the chemical, petroleum, and materials industries. In these industries, about 40 percent of the professional staffs are chemical engineers. Besides providing technical leadership for these industries, chemical engineers are a major source of management personnel. Chemical engineering also offers many opportunities for independent enterprise.

Chemical engineers must combine many different abilities in their work. These include an aptitude for chemistry, computer science, physics, mathematics, and economics; the capability of presenting decisions to management in a lucid and concise manner; and the ability to bring scientifically oriented talents to bear on practical problems.

The undergraduate curriculum is concerned primarily with fundamentals, and basic
courses in mathematics, chemistry, and chemical engineering are required. Elective courses permit in-depth study in a particular area of chemical engineering. For example, students wishing to concentrate ultimately in pollution control, or in biological or materials engineering may plan their programs to give them a foundation in these fields. The curriculum requires liberal arts, humanitie, and social sciences electives to satisfy the University's general education and external accreditation requirements and to prepare students for the responsibilities of citizenship, aside from a technical career. The undergraduate curriculum is oriented toward the use of computers, which have become increasingly important to engineers. 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 held continuous accreditation by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology since 1939.

3/2 Program in Chemistry and Chemical Engineering The Department of Chemistry at Southern University and the 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 coursework are taught principally at Southern University and the last two years principally at LSU.

CURRICULUM IN CHEMICAL ENGINEERING

TOTAL SEM. HRS. • 135

A grade of "C" or better in each of the basic sciences preparatory courses completed—CHEM 1201 and 1202; PHYS 2101 and 2102; MATH 1550, 1552, and 2065; and in CHE 2171—is required before students may register for any chemical engineering course other than CHE 2171.

*General education required courses.

FRESHMAN YEAR SEM. HRS.

Chemistry 1201, 1202, 1212 ... 8
English 1000/1001, 1002* ... 6
Mathematics 1550, 1552 ... 10
Physics 1201 or 2101 ... 3
General education arts/humanities/social sciences courses* ... 3
Elective or ROTC ... 3-2

FRESHMAN YEAR SEM. HRS.

Chemical Engineering 2171, 2176 ... 6
Chemistry 2261, 2262 ... 8
Civil Engineering 2450 ... 3
Computer Science 2260 ... 1
Economics 2030* ... 3
Mathematics 2065 ... 3

JUNIOR YEAR SEM. HRS.

Chemical Engineering 3172, 3173, 4101, 4102, 4104 ... 16
Chemistry 3491, 3492 ... 6
Electrical Engineering 2950 ... 3
English 3002 or ROTC ... 3-4
Mechanical Engineering 3 ... 3
General education arts/humanities/social sciences courses* ... 3

SENIOR YEAR SEM. HRS.

Chemical Engineering 4151, 4171, 4172, 4173, 4190, 4198 ... 18
Advanced chemistry elective ... 3
Chemical engineering design elective ... 3
Chemical engineering sciences elective ... 3
General education arts/humanities/social sciences courses* ... 3
General education biological science course* ... 3
General education biological science course* ... 3
Chemical engineering 4162 ... 2

DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING

CHAIR • Avent, Professor
OFFICE • 3502 CEEBA Building
TELEPHONE • (504) 388-8442
FAX • (504) 388-8652

FREEROP McMoRAN CHAIR ID PROFESSORSHIP IN ENGINEERING

• Metcalf

PROFESSORS • Acar, Adrian
Avent, Gopu
Malone, Roy
Seals, Singh
STOPHER, Tittlebaum
Tumay, Voyiadis

ASSOCIATE PROFESSORS • Alawady
Constant, Cruse
Pophin, Wilmot

ASSISTANT PROFESSORS • Bullock, Chen
Foxworthy, Levitan
Mattei, Mohammad
Ro, Roy
Rusch, Research

ADJUNCT FACULTY • Householder, Lea
Miller, Naghavi
Pendyala

INSTRUCTORS • Ghaddar, Kelly

Civil engineering is the profession in which a knowledge of the mathematical and physical sciences gained by study, experience, and practice is applied with judgment to develop economic ways to utilize materials and forces of nature for the well-being of people in creating, improving, and protecting the environment; providing facilities for community living, industry, and transportation; and in providing structures for the use of humanuty.

The civil engineering curriculum is designed to provide a broad but integrated education in the scientific, mathematical, engineering, socio-humanistic, and ethical principles that are the basis for a successful professional career. The curriculum also provides 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 engineering. The department assists students in achieving the technological, communication, and interpersonal competencies, as well as a sensitivity to and understanding of socio-political issues, necessary for the professional practice of civil engineering.

For those students wishing to concentrate in environmental engineering, 18 hours of designated electives can be selected during the senior year with emphasis on technical, socio-economical, and regulatory issues in environmental engineering.

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 by local, state, and federal governmental agencies. Many are employed by private consultants and ultimately establish their own consulting engineering practices.

Typically, the successful civil engineer is a registered professional engineer who affiliages 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 in Engineering examination that is a partial requirement for registration as a professional engineer.

The civil engineering curriculum is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

CURRICULUM IN CIVIL ENGINEERING

TOTAL SEM. HRS. • 134

*General education required courses. Students must have 3 hours of prior credit for ROTC before substituting ROTC for English 3002.

Students must earn a minimum grade of "C" in MATH 1550, 1552, and PHYS 2101.

FRESHMAN YEAR SEM. HRS.

Chemistry 1201, 1202* ... 6
Industrial Engineering 1000/1001* ... 6
Physics 1000/1001, 1002* ... 6
Geology 1001 ... 3
Mathematics 1550, 1552 ... 10
Physics 2101* ... 3

SOPHOMORE YEAR SEM. HRS.

Civil Engineering 2200, 2450, 2710, 2720, 3400 ... 13
Computer Science 1250 ... 3
Electrical Engineering 2950 ... 3
Mathematics 2057, 2065 ... 6
Physics 2102 ... 3
Mechanical Engineering 3133 ... 3

SOPHOMORE YEAR SEM. HRS.

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

Gopu, Avent, Malone, Roy, Seals, Singh, Stopher, Tittlebaum, Tumay, Voyiadis, Acar, Adrian, Constant, Cruse, Pophin, Wilmot, Foxworthy, Levitan, Mattei, Mohammad, Ro, Roy, Rush, Research, Householder, Lea, Miller, Naghavi, Pendyala, Ghaddar, Kelly

**General education required courses. Students must have 3 hours of prior credit for ROTC before substituting ROTC for English 3002.

Students must earn a minimum grade of "C" in MATH 1550, 1552, and PHYS 2101.

FRESHMAN YEAR SEM. HRS.

Chemistry 1201, 1202* ... 6
Industrial Engineering 1000/1001* ... 6
Physics 1000/1001, 1002* ... 6
Geology 1001 ... 3
Mathematics 1550, 1552 ... 10
Physics 2101* ... 3

SOPHOMORE YEAR SEM. HRS.

Civil Engineering 2200, 2450, 2710, 2720, 3400 ... 13
Computer Science 1250 ... 3
Electrical Engineering 2950 ... 3
Mathematics 2057, 2065 ... 6
Physics 2102 ... 3
Mechanical Engineering 3133 ... 3

SOPHOMORE YEAR SEM. HRS.

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

Gopu, Avent, Malone, Roy, Seals, Singh, Stopher, Tittlebaum, Tumay, Voyiadis, Acar, Adrian, Constant, Cruse, Pophin, Wilmot, Foxworthy, Levitan, Mattei, Mohammad, Ro, Roy, Rush, Research, Householder, Lea, Miller, Naghavi, Pendyala, Ghaddar, Kelly

**General education required courses. Students must have 3 hours of prior credit for ROTC before substituting ROTC for English 3002.

Students must earn a minimum grade of "C" in MATH 1550, 1552, and PHYS 2101.
JUNIOR YEAR SEM. HRS.
Civil Engineering 2250, 3100, 3110, 3200, 3300, 3350, 3410, 3415, 3500, 3600, 3700 24
English 3002 or ROTC 3
Economics 2030* 3
Mechanical Engineering 3333 3

SERNIOR YEAR SEM. HRS.
Civil Engineering 4410 3
Industrial Engineering 3710 3
Civil engineering analysis elective 3
Civil engineering design electives 6
Civil engineering project elective 3
Civil engineering technical elective or ROTC 3
Civil engineering technical elective 3
General education arts, humanities, social sciences courses* 9

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING
CHAIR • Marshak, F. Hugh Coughlin/CLECO Professor
OFFICE • 102 Electrical Engineering Building
TELEPHONE • (504) 388-5241
FAX • (504) 388-5200
F. HUGH COUGHLIN/CLECO PROFESSOR • Marshak
F. J. HAYDEL, JR./KAISER ALUMINUM PROFESSOR • Voss
PROFESSORS • Ajmera, Feldman, Harlow, Kak, Kinney, Marshak, Tan, Voss
ASSOCIATE PROFESSORS • Aravena, Cho, Czarnecki, El-Amary, Hegde, Ho, Lee, Naraghi-Pour, Rai, Skavantzos, Srivastava, Trahan
ASSISTANT PROFESSORS • Gu, Ikoasis-Anastasiou, Koppelman, Ramanujam, Vaidyanathan, Zhou, Zhu

Electrical and computer engineering students receive a thorough foundation in mathematics, physics, and introductory engineering during the first two years. Emphasis during the junior and senior years is on advanced engineering concepts and design. This prepares students for excellent career opportunities in areas such as computer engineering, energy conversion, power systems, communications, network design, control systems, electronics, signal processing, and electromagnetics, as well as many interdisciplinary areas. With the background in fundamental theory and laboratory practice provided in the curricula, graduates are prepared to contribute and progress in their chosen technological fields.

The department offers two programs of study, electrical and computer engineering, both leading to the degree of Bachelor of Science in Electrical Engineering. The electrical engineering curriculum provides a broad background in electrical engineering through the required course sequence. Elective courses permit students to develop a program in one of the three areas of technical concentration, as outlined below. The approved technical electives permit students to obtain more depth in the chosen area, explore other areas of electrical engineering, or explore other fields of engineering and science. The electrical engineering program is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

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. • 128

A prerequisite to any electrical engineering course may be met only by obtaining a "C" or better in each course cited as a prerequisite. This rule does not apply to EE 2950, EE 3950, or EE 3951.

In order to develop expertise in at least one of the many areas of electrical engineering, elective courses may be concentrated in one of the following three areas:

- **Electronics** • theory, design, and fabrication of solid-state devices and design of electronic circuits and systems.
- **Energy** • energy conversion, power system design and analysis, and control of power systems.
- **Systems and Signal Processing** • automatic control, networks, signal processing, and communication.

Additional information concerning these areas and guidelines for selecting electives are available in the departmental office.

*General education required courses.

FRESMEN YEAR SEM. HRS.
Chemistry 1201 3
English 1000/1001, 1002* 6
Mathematics 1550, 1552* 10
Physics 2101, 2108 4
General education biological sciences course* 3
General education arts/humanities/social sciences course* 3
Speech Communication 2061 or ROTC 3

SOPHOMORE YEAR SEM. HRS.
Computer Science 1253, 1254 6
Electrical Engineering 2120, 2130, 2230, 2231, 2720 13
Mathematics 2057, 2090 7
Physics 2102* 3
General education arts/humanities/social sciences course* 3
Philosophy 2018 or ROTC 3

JUNIOR YEAR SEM. HRS.
Electrical Engineering 3120, 3140, 3220, 3221, 3320, 3410, 3530, 3720, 3750, 3751 28
General education arts/humanities/social sciences courses* 3

SENIOR YEAR SEM. HRS.
Electrical engineering design electives 12
General education arts/humanities/social sciences courses* 9
Approved technical electives 6
Approved engineering (non-electrical) elective 3
General education arts/humanities/social sciences courses* 6

CURRICULUM IN COMPUTER ENGINEERING

TOTAL SEM. HRS. • 129

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, EE 3950, or EE 3951.

*General education required courses.

FRESMEN YEAR SEM. HRS.
Chemistry 1201 3
English 1000/1001, 1002* 6
Mathematics 1550, 1552* 10
Physics 2101, 2108 4
General education biological sciences course* 3
General education arts/humanities/social sciences course* 3
Speech Communication 2061 or ROTC 3

SOPHOMORE YEAR SEM. HRS.
Computer Science 1253, 1254 6
Electrical Engineering 2120, 2130, 2230, 2231, 2720 13
Mathematics 2057, 2090 7
Physics 2102* 3
General education arts/humanities/social sciences course* 3
Philosophy 2018 or ROTC 3

JUNIOR YEAR SEM. HRS.
Computer Science 3102 3
Electrical Engineering 3120, 3140, 3220, 3221, 3320, 3410, 3530, 3720, 3750, 3751 19
Approved mathematics elective 3
General education arts/humanities/social sciences courses* 6

SENIOR YEAR SEM. HRS.
Computer Science 4103 3
Electrical Engineering 4730, 4750 7
Electrical engineering design electives 6
Approved engineering (non-electrical) electives 3
Approved technical electives 6
General education arts/humanities/social sciences courses* 6
Industrial engineering involves the synthesis and application of scientific principles to design, installation, and improvement of integrated systems of people, materials, and equipment to provide the most efficient and effective operation of these systems. The principles of human behavior are combined with concepts of engineering procedure or analysis.

Industrial engineers engage in work systems measurement, methodology development and improvement, CAD, CAM, CIE systems development integration and applications, expert systems, ergonomics and human factors engineering, safety engineering, reliability engineering, quality assurance, statistical analysis and control, facilities and plant layout, new product development and value engineering, concurrent engineering and project/program management, engineering economics, production planning and control, manufacturing processes, computer modeling and simulation, industrial automation and robotics, materials handling, cost and budgetary control, and operations research studies.

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 all kinds of jobs and the machines and people who produce goods; and the ability to analyze, synthesize, and integrate technical knowledge in practical ways.

Industrial engineers’ backgrounds, experience, and training give them wide acquaintance with industrial problems. Recent developments, such as widespread industrial interest in systems design, expert/AI systems, concurrent engineering, information systems, and CIE/CIM have made the industrial engineers’ entrance into management even more likely, for their training gives familiarity with qualitative and quantitative methods of systems integration and control. At present, the demand for industrial engineers exceeds the supply, thus assuring job opportunities, with expanded opportunities expected for the future.

The industrial engineering curriculum is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

**CURRICULUM IN INDUSTRIAL ENGINEERING**

**TOTAL SEM. HRS. • 135**

**Industrial Engineering Electives** • Choose from the list maintained in the department.

*General education required courses.*

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<td>Mechanical Engineering 3333</td>
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<tr>
<td>General education arts/humanities/social sciences courses*</td>
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</table>

**DEPARTMENT OF MECHANICAL ENGINEERING**

**INTERIM CHAIR • Sabbaghian, Professor**

**OFFICE • 2508 CEBA Building**

**TELEPHONE • (504) 368-5792**

**FAX • (504) 369-5990**

<table>
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<td>TED AND ESTHER WALKER PROFESSOR • Charalampopoulos</td>
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<td>PROFESSORS EMERITI • Cundy, Daniel, McPhate, Miller, Whitehouse</td>
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<td>PROFESSORS • Acharya, Charalampopoulos, Eaton, Raman, Sabbaghian</td>
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<td>ASSOCIATE PROFESSORS • Court, Meletis, Myrum, Nikitopoulos, Pang, Waggenspack, Yannitell</td>
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<tr>
<td>ASSISTANT PROFESSORS • Garrison, Kelly, Li, Ma, Murphy, Smith, Wang</td>
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Mechanical engineering emerged as a new field of engineering during the Industrial Revolution when many labor-saving inventions were designed and built in England between 1750 and 1850. The role of the mechanical engineer has expanded dramatically in recent years and nearly 10,000 new 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 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 mechanical engineering curriculum is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

**CURRICULUM IN MECHANICAL ENGINEERING**

**TOTAL SEM. HRS. • 134**

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 2333.

*ROTC is optional. If it is not taken in the freshman year, an approved technical elective must be scheduled in the senior year.*

*General education required courses.*

<table>
<thead>
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<th>Course</th>
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<tr>
<td>Industrial Engineering 1001</td>
<td>4</td>
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<tr>
<td>English 1000/1001, * 1002*</td>
<td>6</td>
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<tr>
<td>Mathematics 1550, * 1552*</td>
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<tr>
<td>Physics 2101</td>
<td>3</td>
</tr>
<tr>
<td>General education arts/humanities/social sciences course*</td>
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</tr>
<tr>
<td>ROTC</td>
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<tr>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<tr>
<td>Civil Engineering 2450, 3400</td>
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<td>Computer Science 2262</td>
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<td>Electrical Engineering 2950</td>
<td>3</td>
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<td>Economics 2020*</td>
<td>3</td>
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<td>Mathematics 2057</td>
<td>3</td>
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</table>
Mechanical Engineering 2333, 2733, 2833, 3133, 3701 .................................. 13
Physics 2102 .................................................................................................................. 3

JUNIOR YEAR SEM. HRS.
English 3002 or ROTC ................................................. 3
Electrical Engineering 3950, 3951 ........................................... 4
Industrial Engineering 3603 ................................................. 3
Mathematics 2070 ................................................................. 4
Mechanical Engineering 3342, 3602, 3752, 3842, 4133, 4242, 4252, 4433 .................. 18

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

SENIOR YEAR SEM. HRS.
Mechanical Engineering 4143, 4172, 4201, 4202, 4232, 4601, 4611 ......................... 12
General education arts, humanities, social sciences courses* .................................. 9-12
Approved technical electives ......................................................................................... 30-33

NUCLEAR ENGINEERING

A graduate program leading to the degree of Master of Science in Nuclear Engineering is available to properly qualified students who have obtained the bachelor's degree in one of the branches of engineering or physical sciences or have other suitable education and experience. The program aims to develop competence in nuclear engineering and related sciences.

The Nuclear Science Center provides facilities for nuclear engineering experiments and research in areas including high-intensity irradiations, nuclear reactions, spectroscopy, radiation shielding and design, radiation embrittlement, radiation chemistry, nuclear reaction analysis, industrial isotope applications, neutron and heat transport, nondestructive testing, health physics, environmental monitoring, radiation protection, and personnel monitoring. Opportunities are provided for research with the LSU System Network Computer Center and for participation in cooperative research programs at the National Laboratories of the U.S. Department of Energy.

DEPARTMENT OF PETROLEUM ENGINEERING

CHAIR • Bassiouni, John W. Rhea Professor
OFFICE • 3516 CEBA Building

TELEPHONE • (504) 388-5215
FAX • (504) 388-5990

JOHN W. RHEA PROFESSOR • Bassiouni
CAMPANILE CHARITIES PROFESSOR OF OFFSHORE MINING AND PETROLEUM ENGINEERING

PROFESSORS • Bassiouni, Bourgoyne
ASSOCIATE PROFESSORS • Bernard, Langinias, Whitehead, Wojtanowicz
ASSISTANT PROFESSOR • Schenewerk

Although the petroleum engineering curriculum is designed primarily for careers in the drilling and production aspects of the petroleum industry, it is suitable for careers in related areas such as ground water hydrology, geothermal energy, solution mining, and underground storage or disposal of fluids. Professional courses in drilling and production, well design, reservoir engineering, petrophysics, well logging, and the phase behavior of hydrocarbon systems follow basic course work in mathematics, chemistry, physics, geology, and the engineering sciences. Attention is given to 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 of AIME and take the Engineer-in-Training (EIT) examination during the senior year as preparation for registration as a professional engineer.

The petroleum engineering curriculum is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

CURRICULUM IN PETROLEUM ENGINEERING

TOTAL SEM. HRS. • 135

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. Also, credit must be earned in PTE 3002 and 3053 before a student may register for any 4000-level petroleum engineering course. A student may elect to take six sem. hrs. of ROTC in place of Petroleum Engineering 4010, 4060, 4073. The six sem. hrs. of ROTC must be successfully completed before any substitution will be made. The sequence in which elective courses are taken may have to be altered for students electing the ROTC option.

The biological sciences elective and the arts/humanities/social sciences electives must be selected from the approved list published by the Dean of the College of Engineering. A student may elect to take 6 semester hours of Economics 2010, 2020 in place of 3 semester hours of Economics 2030. The additional 3 hours may be used to partially fulfill the general education requirement.

*General education required courses.

FRESHMAN YEAR SEM. HRS.
Chemistry 1201*• 1202*• 1212* ........................................... 8
English 1000/1001*• 1002* ........................................... 6
Geology 1001, 1003, 1601 ........................................... 7
Mathematics 1550*• 1552* ........................................... 10
Petroleum Engineering 1010 or ROTC ........................................... 2
Petroleum Engineering 1060 or ROTC ........................................... 3

SOPHOMORE YEAR SEM. HRS.
Civil Engineering 2450 ........................................... 3
Civil Engineering 2200 ........................................... 3
Electrical Engineering 2950 ........................................... 6
Mathematics 2057, 2065 ........................................... 6
Petroleum Engineering 2031, 2032, 2034 ........................................... 7
Physics 2101, 2102 ........................................... 6
Industrial Engineering 1001 ........................................... 2
Economics 2030* ........................................... 3

JUNIOR YEAR SEM. HRS.
Civil Engineering 3400 ........................................... 3
Mechanical Engineering 3133 ........................................... 3
Mechanical Engineering 3333 ........................................... 3
Petroleum Engineering 3002, 3025, 3036, 3053 ........................................... 12
Petroleum Engineering 3037 or ROTC ........................................... 1
Approved geology elective ........................................... 3
General education arts/humanities/social sciences courses* ........................................... 6
General education biological sciences course* ........................................... 3

SENIOR YEAR SEM. HRS.
Petroleum Engineering 4045, 4046, 4051, 4052, 4056, 4057, 4058, 4059, 4060, 4999 ........................................... 20
General education arts/humanities/social sciences courses* ........................................... 9
Petroleum engineering design elective ........................................... 3
GENERAL COLLEGE

JACK B. PARKER
Dean

DAVID C. BLOUN
Associate Dean

MARY EVELYN BASZILE
Assistant Dean

DORIS C. DAWSON
Counselor

DENISE E. MAYEUX
Counselor

ANDREE L. REYNAUD
Counselor

MARGO ABADIE
Faculty Adviser

SUSAN SEIFERT
Prenursing Adviser

150 Himes Hall
(504) 388-8281
FAX • (504) 388-8268

General College provides the administrative structure for a variety of degree and nondegree programs. The primary objectives of the college are to meet the needs of students whose educational goals require broad and flexible programs of study; students planning to enter professional schools in various health fields; students attempting to update their skills; and students preparing for professional careers in construction management or industrial operations.

General College serves the traditional as well as the nontraditional student and, in each case, allows students the opportunity to maximize development of individual goals. The college maintains high standards of excellence for all students.

ADMISSION REQUIREMENTS

Within the framework of University regulations, students may be admitted to this college according to the following policies:

- Students admitted from Junior Division must have completed a minimum of 24 semester hours with a 2.00 average on all work taken and on all work taken in the LSU System. Students must also be eligible for MATH 1020/1021 and ENGL 1002.

- Students admitted from other divisions of the University are expected to meet the same requirements as those admitted from Junior Division.

- Transfer students from accredited colleges and universities who have met the general entrance requirements of the University and who have pursued college courses equivalent to those offered in Junior Division may be admitted to the college on the same conditions as those governing the entrance of students from Junior Division. Transfer credits acceptable for admission purposes 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. Transfer students applying for credit in any division of the college may be required to take a comprehensive examination before credit is allowed.

Any additional requirements for admission may be found in the individual curricular descriptions on the following pages.

DEGREE REQUIREMENTS OF THE COLLEGE

To qualify for a particular degree in this college, a student must meet the following requirements:

- Complete an established program of studies and be approved for the degree by the faculty and the dean of the college.

- In addition to having satisfied the admission requirements of the college and the department concerned, satisfactorily complete a curriculum with at least a 2.00 average in all courses required for the degree and an overall 2.00 average. A minimum GPA of 2.00 is required in the major field for students in construction management.

- Earn a specified number of credits while registered in the college, depending on the individual's curricular requirements. In all cases, students transferring into the college must meet a residency requirement.

- Attain proficiency in English by obtaining at least a grade of "C" in required English courses.

- Complete any course deficiencies determined at time of admission.

- In the final year, complete the check-out of all course work required for the degree in the semester prior to the semester in which the degree is to be awarded.

- Complete 39 hours of general education courses, as specified in a separate section of this catalog.

STUDENT RESPONSIBILITY

Each student bears final responsibility for selecting an academic program and adhering to all published regulations and degree requirements of the college. Each student must assume responsibility for the check-out of course work required for the degree.

MAXIMUM COURSE LOAD AND CORRESPONDENCE WORK

The maximum load for which a student in this college may register is 19 semester hours during the regular semester and 10 semester hours during the summer term, including any correspondence work taken simultaneously. Students enrolled in correspondence work must complete the final examination in the course before being allowed to register for the maximum number of hours. Correspondence study is not allowed during the semester in which the student graduates.

Students in the college who are on scholastic probation may be placed on a restricted schedule by the dean and will remain so until their overall average has been raised sufficiently to indicate that they are capable of carrying a larger load.

REQUIREMENTS FOR A SECOND BACHELOR'S DEGREE

Students holding baccalaureate degrees who wish to obtain a second baccalaureate degree may do so by registering in the college in a program of their choice and by completing a specified number of hours. The general studies degree requires a minimum of 39 hours beyond the previous degree. The degrees in construction management and industrial technology require the completion of all course work specified in the curriculum and the completion of a residence requirement of 30 hours. A minimum 2.00 grade point average must be earned in this subsequent work.
ADMINISTRATION AND COUNSELING

Academic records for students enrolled in General College are maintained in the office of the dean. The General College houses a professional counseling staff to provide students an opportunity to gain assistance in both academic and personal matters.

PLACEMENT SERVICES

General College students may use the services of the University’s Career Planning, Placement, & Co-op Center. These services include counseling, job-seeking skills workshops, job search handbooks, résumé service, career days, and on-campus recruiting and interviews. Students should contact this office as soon as they register each fall in order to receive information concerning job opportunities.

PHI KAPPA PHI

Phi Kappa Phi, a national scholastic honor society founded in 1897, now contains 243 chapters nationwide. It is one of the most prestigious scholastic honor societies in the United States. The LSU chapter was founded in 1930 as the 43rd chapter in the nation. At the present time, the national office is located on this campus in the French House.

The primary objectives of Phi Kappa Phi are to promote the pursuit of excellence in higher education and to recognize outstanding achievement by students and faculty through election to membership and through various awards and fellowships. Phi Kappa Phi is unique because it recognizes superior scholarship in all academic fields, rather than restricting membership to a limited field. Undergraduates and graduate students who rank in the top 10 percent of their graduating 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.

DIVISION OF INTERDISCIPLINARY STUDIES

DEPARTMENT OF CONSTRUCTION MANAGEMENT

CHAIR • Householder, Professor
OFFICE • 2519 CEEB Building
TELEPHONE • (504) 388-8754
FAX • (504) 388-8752

CONTRACTORS’ EDUCATIONAL TRUST
FUND CHAIR • Wilson

PROFESSORS • Gill, Householder, Wilson, Young

ASSOCIATE PROFESSORS • Gonzalez, Nethken, Poplin

ASSISTANT PROFESSORS • Hoover, Kinchen, Rosso

The Department of Construction Management offers the degree of Bachelor of Science in Construction Management. This department recognizes that its 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.

To graduate with a minor in construction management, nonmajors must complete CONS 1010, 1111, and 12 additional hours in construction at the 3000 level.

CURRICULUM IN CONSTRUCTION MANAGEMENT

TOTAL SEM. HRS. • 133

Course Sequence • Prerequisites are rigidly enforced.

Residency • Students must earn at least 24 of the last 30 hours offered toward the degree in residence in the Department of Construction Management.

General Education Requirements • All approved electives must be chosen from those listed in the section on general education requirements.

FRESHMAN YEAR

SEM. HRS.

English 1000/1001, 1002 ................................................. 6
Experimental Statistics 2000 or Construction 1400 .......... 3
Construction 1010, 1111 ................................................. 9
Mathematics 1550 ........................................................... 5
Economics 2010, 2020 ....................................................... 6
General education humanities course .................................. 3
General education arts course ............................................. 3

TOTAL ................................................................. 33

SOPHOMORE YEAR

SEM. HRS.

English 2002 or 3002 ....................................................... 3
Civil Engineering 2081, 2082, 2510 ................................. 6
Construction 2121, 2131 ................................................... 6
Industrial Education 2053 ............................................... 3
Physics 2001, 2002 ........................................................... 6
Speech Communication 2060 .......................................... 3
General education biological sciences course .................... 3
General education humanities course ............................... 3

TOTAL ................................................................. 33

JUNIOR YEAR

SEM. HRS.

Civil Engineering 3082, 3083 ............................................. 6
Construction 3011, 3301, 3302, 3561, 3562, 3595 ............. 20
Accounting 2001, 2101 ..................................................... 6

TOTAL ................................................................. 32

SENIOR YEAR

SEM. HRS.

Construction 3083, 3110, 3591, 3593, 3594 ....................... 16
Civil Engineering 3700 .................................................... 1
Finance 3201 ............................................................... 3
Experimental Statistics 3001 .............................................. 4
Industrial Engineering 3201 .............................................. 3
Management 3200, 4620 or ROTC ................................. 6-7

33-34
INDUSTRIAL TECHNOLOGY

The mission of this curriculum is to provide students with a broad technical and managerial background that qualifies them for positions of leadership in industry, commerce, and government. The curriculum combines the concepts of management and human relations with those of the physical sciences and production processes to prepare graduates to develop technological solutions to industrial operations. Students may choose a broad-based course of study or elect to specialize in occupational health and safety.

CURRICULUM IN INDUSTRIAL TECHNOLOGY

TOTAL SEM. HRS. • 129

*Optional courses for international students only.

FRESHMAN YEAR SEM. HRS.
Chemistry 1201, 1202 (5) 2
Industrial Engineering 1001 (4) 2
English 1000/1001, 1002; 1004,* 1005* (6) 6
Experimental Statistics 2000 (3) 3
Mathematics 1020/1021 (6) 6
1022 or 1431 (6) 6
General education humanities course (3) 3
General education arts course (3) 3
General education biological sciences course (3) 3
32

SOPHOMORE YEAR SEM. HRS.
Industrial Technology 2021, 2022 (12) 12
2040, 2051 (12) 12
Economics 2030 (3) 3
Physics 2001, 2002 (6) 6
Speech Communication 2060 or 1051* (3) 3
Directed technical electives (8) 8
32

JUNIOR YEAR SEM. HRS.
Accounting 2000 (3) 3
Industrial Technology 3082 (3) 3
Industrial Education 3061 or Management 3200 (3) 3
Psychology 3050 (3) 3
Directed technical electives, including ROTC (18) 18
General education humanities course (3) 3
33

SENIOR YEAR SEM. HRS.
Biological & Agricultural Engineering 3104 (1) 1
English 3002 (3) 3
Finance 3200 or 3201 (3) 3
Industrial Technology 4350 (3) 3
Marketing 3401 (3) 3
Directed technical electives (16) 16
General education social sciences course (3) 3
32

DIVISION OF GENERAL STUDIES

GENERAL STUDIES

OFFICE • 150 Himes Hall
TELEPHONE • (504) 388-8281
FAX • (504) 988-8268

The Bachelor of General Studies degree program is for the student whose professional goals and educational objectives are optimally satisfied by an individualized, yet integrated, curriculum of interdisciplinary studies. Many students have found the general studies degree to be excellent preparation for entry into certain professional schools (medicine, law, dentistry, social work). Excellent preparation for graduate study is also provided.

The three components that guide curriculum development are General Studies, Interdisciplinary Studies, and Approved Elective Studies. The General Studies component represents a broad education with course work selected from among a wide range of disciplines. The Interdisciplinary Studies component typifies the unique interest, talents, and goals of the individual student. This component offers minors in at least three areas. (Only minors existing in the current LSU General Catalog will be accepted for the interdisciplinary studies component.) Finally, the Approved Elective Studies component offers the student the opportunity to pursue additional studies to broaden his or her general education.

In addition to the college requirements, a curriculum contract must be established and approved prior to admission to the general studies program.

CURRICULUM IN GENERAL STUDIES

TOTAL SEM. HRS. • 129

To obtain a Bachelor of General Studies degree, a student must satisfy the following requirements.

General Studies (54 semester hours)

A total of 18 hours of credit must be earned in at least three subjects within each of the three groups listed below. General Studies credit cannot be applied to Interdisciplinary Studies credit.

Group I—Humanities • art, English, foreign languages, history, music, philosophy, religious studies, speech communication, and theatre.

Group II—Social Sciences • anthropology, economics, geography, political science, psychology, and sociology.

Group III—Natural Sciences • astronomy, biology, plant biology, chemistry, computer science, geology, mathematics, microbiology, physical science, physics, and zoology.

Interdisciplinary Studies (60 semester hours)

Select three or four approved minor areas. All requirements for each minor area must be satisfied. The total of the hours required for the chosen minors must total at least 60 hours. (These requirements are available in the dean’s office.)

Approved Elective Studies (15 semester hours)

Elective studies must be multidisciplinary. Select a minimum of five courses from at least two different disciplines.

Specific Requirements

• The general education requirements of the University must be satisfied and selected courses may appear under any of the three components of the student’s curriculum.

• A student must earn a grade of “C” or better in English 1000/1001 and 1002 or the equivalent.

• A student must earn credit for MATH 1020/1021 or 1029 and a second general education mathematics course.

• A student must earn 3 hours of computer science, or EXST 2000, or a foreign language.

General Requirements

• No more than 21 hours in any one subject, unless minor area requirements dictate otherwise.

• No more than 15 hours of correspondence credit.

• No more than 15 hours of pass-fail credit.

• No more than 4 hours of kinesiology activity and/or music performance credit.

• No more than 6 hours of ROTC credit.

• No more than 39 hours of credit below the 2000 level.

• At least 45 hours of credit at or above the 3000 level.

• At least 15 hours of credit at the 4000 level.

• At least a 2.00 GPA on all work taken at LSU.

• At least a 2.00 GPA on entire college record.

• Last 39 hours of credit must be earned in residence in the program. Correspondence and advanced-placement credit do not apply.

• Independent reading/research courses must have prior dean’s approval.

SPECIAL PROGRAMS

Nonmatriculated Students

Nondegree-seeking students and students who meet University admission requirements, but do not qualify for enrollment in Junior Division or a senior college, may be considered for nonmatriculated (NMATR) admission.

NMATR students who seek admission to a degree program should request academic advice from the office of the dean of the college in which they plan to enroll. Courses taken by NMATR students are accepted in the senior college to the extent that they apply toward the degree and are approved by the appropriate dean. All University policies regarding academic action apply to NMATR students.

Enrollment in this category cannot be used to satisfy senior college residence requirements unless approved by the appropriate dean. Hours earned in the non-matriculating classification will not satisfy residence requirements in the programs of General College. Students are expected to qualify for admission to their senior colleges after no more than four semesters in the NMATR classification, and are not considered to be making satisfactory academic progress if they do not.
admired 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.

LSU at Alexandria Residence Program

Since LSU at Alexandria (LSU-A) is a two-year institution, 3000/4000-level courses are not offered by faculty from that campus. However, a limited number of 3000/4000-level courses are offered by LSU faculty at the Resident Center on the LSU-A campus. Students who have been admitted to the LSU general studies degree program may register for these courses and complete the requirements for their degrees at the LSU Resident Center. These students must meet all admission, scholastic, and degree requirements of the LSU program.

Cooperative Education Program

Please see “Career Planning, Placement, & Co-Op Center” in the “Student • University Services” section of this catalog.

DIVISION OF PREPROFESSIONAL PROGRAMS

PREPROFESSIONAL EDUCATION IN MEDICAL SCIENCES

Early in their college career, students who intend to enter a professional school of dentistry, medicine, optometry, osteopathy, pharmacy, or physical therapy should examine the current catalog of the school of their choice for specific admission requirements. Premedical and preclinical students should consult with the premedical counselor, Himes Hall.

COMBINED CURRICULA

Completion of the three-year undergraduate portions of the combined curricula does not assure acceptance into the professional schools of the LSU System.

COMBINED CURRICULA IN MEDICINE OR DENTISTRY

Premedical or preclinical students may choose to substitute the first full year's work at one of the LSU Schools of Medicine (in New Orleans or in Shreveport) or Dentistry (in New Orleans) for the senior year. Enrollment in a combined premedical or preclinical curriculum is a privilege. Participation is restricted to those students whose scholarly maturity, as reflected in grades earned, indicates ability to benefit from the accelerated program. Students must satisfy the requirements stipulated below for graduation under the program.

Students in either of the combined curricula must have:
- Earned a GPA of 3.00 or higher ("A" = 4) on 45 semester hours of work (excluding LIS 1001, ROTC, and kinesiology courses) by the end of the third semester in residence at LSU and must maintain a 3.00 grade-point average to be eligible for graduation under the program;
- Spent at least the last two semesters (minimum of 30 semester hours) in residence in the General College;
- Completed all general education requirements;
- Completed prior to matriculation at medical or dental school: (a) for premedical students, a minimum of 98 semester hours or (b) for preclinical students, a minimum of 108 semester hours from the courses listed below.

*Students choosing French, German, or Spanish as their foreign language will take 4 to 8 hours the freshman year, depending on placement, and 6 hours in the sophomore year. Some adjustment in elective hours may be necessary.

**Elective amounts may vary according to choice and placement in language and mathematics courses, as well as choice of science electives.

Chemistry 1201, 1202, 1212, 2261, 2262, 2364 .................................................. 16
English 1000/1001, 1002 .................................................................................. 6
French language (through course 2053 or 2102)* ........................................ 10-14
History ............................................................................................................. 6
Mathematics 10201/10202, 10221, 10231, 1550* ............................................ 5-6
Microbiology 2051 .......................................................................................... 4
Physics 2001, 2002, 2108, 2109 ................................................................. 8
Biology 1201, 1208, 2109 ........................................................................ 8
Zoology 1202, 1209 ....................................................................................... 

Zoology 2153 or zoology/microbiology course above 3000** .................... 3-4
Approved English electives ........................................................................ 6
General education arts course (select from: art, music, drama, philosophy, theatre) ................................................................. 3
Approved humanities course (other than English or foreign language) .......... 3
General education social sciences (courses numbered 2000 or above in at least two subjects other than history) ......................... 9
Approved electives** ................................................................. 5-11

Basic sciences courses taken in the preprofessional program that duplicate first-year courses of either medical or dental school may not be offered for credit in meeting the minimum semester-hour credit requirements in the combined curriculum.

Only those students who enter the University with exceptionally good preparation and maintain a high level of performance in their college work should plan to follow a combined curriculum. Other qualifications being equal, admission preference is given to those students who will have received the bachelor's degree prior to registration in medical or dental school.

Students should contact the General College for additional details.
ALLIED HEALTH PROGRAMS

PREPROFESSIONAL PROGRAM

FACULTY ADVISER - Abadie
OFFICE - 150 Himes Hall
TELEPHONE - (504) 388-8281

General College offers two- and three-year pre-professional programs that prepare students to enter the professional curricula leading to the bachelor's degree in the various allied health fields. To enter the preprofessional programs in physical therapy and occupational therapy, students are required to have grade-point averages of at least 2.70 and 2.50, respectively. The programs of study shown below are appropriate for the professional curricula indicated.

The LSU Medical Center offers the final two- or three-years (clinical or professional) of Bachelor of Science degree programs in cardipulmonary science (respiratory therapy), occupational therapy, physical therapy, medical technology, rehabilitation counseling, and physician's assistant through the LSU School of Allied Health Professions, and in dental hygiene and dental laboratory technology through the LSU School of Dentistry in New Orleans. 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 Medical Center.

In addition to the bachelor's degree programs described in this catalog, the LSU School of Allied Health Professions also offers master's degrees in Communication Disorders and Health Sciences.

Further information regarding any of these programs may be obtained from the advisor in General College or the LSU Medical Center, School of Allied Health Professions, in New Orleans or Shreveport.

PREPROFESSIONAL PROGRAMS IN CARDIOPULMONARY SCIENCE (RESPIRATORY THERAPY), OCCUPATIONAL THERAPY, PHYSICAL THERAPY, AND PHYSICIAN'S ASSISTANT

These programs are designed for students desiring to apply for entry into professional curricula in cardiopulmonary science (respiratory therapy), occupational therapy, physical therapy, and physician's assistant.

Approval of course selections must be obtained from the allied health counselor in General College 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 General College.

Students enrolled in a preoccupational therapy program are required to complete only one three-hour lecture course in chemistry.

Military science or physical education skills courses are not acceptable as electives in fulfilling the 60-semester hour pre-allied health credit requirement.

FRESHMAN YEAR SEM. HRS.
Chemistry 1201, 1202 ...................................... 6
English 1000/1001, 1002 .................................. 6
Mathematics 1020/1021, 1022 .................................. 6
Biology 1001, 1002, 1005 .................................. 8

PREPROFESSIONAL PROGRAM IN HOSPITAL SERVICES

General education social sciences course .................. 3
General education arts course ................. 3

SOPHOMORE YEAR SEM. HRS.
Chemistry 1212 .................................. 3
English course above 2000 .................................. 3
Experimental Statistics 2000 .................................. 3
Psychology 2000 .................................. 3
Area of concentration requirements (see below) ............. 12-16
General education humanities courses .................................. 9

Areas of Concentration

- Cardiopulmonary Science (12 hrs.)
  Microbiology 2051; Physics 2001, 2108; political science elective; four hrs. science electives.
- Occupational Therapy (16 hrs.)
  Physics 2001, 2108; six sem. hrs. of psychology electives; Sociology 2001, Kinesiology 2500.
- Physical Therapy (14 hrs.)
- Physician's Assistant (14 hrs.)
  Kinesiology 2500; Physics 2001, 2108; Microbiology 1001, 1002; psychology elective (4 hrs.).

PREPROFESSIONAL PROGRAM IN DENTAL HYGIENE

FRESHMAN YEAR SEM. HRS.
Mathematics 1020/1021 .................................. 3
General education math, biological reasoning course above 1021 .................................. 3
Psychology 2000, 2011 .................................. 6
Biology 1001, 1002 .................................. 6
Sociology 2001 .................................. 3
General education arts course .................................. 3

SOPHOMORE YEAR SEM. HRS.
Approved English electives .................................. 6
Speech Communication 2010 or 2060 .................................. 3
General education humanities courses .................................. 6
Experimental Statistics 2000 or 2108; Computer Science 1100 .................................. 3
Kinesiology 2500 .................................. 3
Psychology 2004, 2060, 2070 .................................. 9

JUNIOR YEAR SEM. HRS.
Psychology 3082 .................................. 3
General education social sciences courses .................................. 9
General education humanities courses .................................. 3
Approved electives .................................. 15

PREPROFESSIONAL PROGRAM IN MEDICAL TECHNOLOGY

The LSUOMC offers a "3 plus 1" program in medical technology. Please contact the advisor in General College for more information.

FRESHMAN YEAR SEM. HRS.
Chemistry 1201, 1202, 1212 .................................. 8
English 1000/1001, 1002 .................................. 6
Mathematics 1020/1021, 1022 .................................. 6
Biology 1001, 1002, 1005 .................................. 8

SOPHOMORE YEAR SEM. HRS.
Chemistry 2000 .................................. 3
Approved English elective .................................. 3
Microbiology 1001, 1002 .................................. 4
General education humanities courses .................................. 9
Approved science courses .................................. 3
General education arts course .................................. 3

JUNIOR YEAR SEM. HRS.
Chemistry 2001, 2002 .................................. 4
Experimental Statistics 2000 .................................. 3
Speech Communication 2010 or 2060 .................................. 3
Approved electives .................................. 13

PREPROFESSIONAL PROGRAM IN DENTAL HYGIENE

The LSU Dental School in New Orleans offers two dental hygiene programs and two dental technology programs. Both the Associate of Science degree and the Bachelor of Science degree in each discipline are available.

FRESHMAN YEAR SEM. HRS.
Chemistry 1001 .................................. 3
Biology 1001, 1002, 1005 .................................. 6
English 1000/1001, 1002 .................................. 6
LSU offers a prenursing program that prepares students to enter the professional nursing curriculum leading to the Bachelor of Science in Nursing at the LSU Medical Center School of Nursing in New Orleans.

Admission to the LSU School of Nursing is on a competitive basis. Applications for admission to the sophomore year must be submitted well in advance of the anticipated date of entrance to complete three years of study. Students are accepted in the fall and spring of each year. Applications are available from General College.

Prenursing requirements vary with each professional school of nursing, and entrance to each school is competitive. Prospective nursing students should obtain the entrance requirements from each school to which they will seek admission. Addresses of other Louisiana Schools of Nursing may be obtained from General College.

The following program is designed only for students planning to apply for a Bachelor of Science degree in nursing at the LSU Medical Center School of Nursing in New Orleans.

Students must qualify for Mathematics 1020/1021 to be eligible to schedule Chemistry 1201.

For approved arts electives, select courses in art, music, philosophy, and theatre listed in the general education section in this catalog.

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 1201, 1208</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry 1201</td>
<td>3</td>
</tr>
<tr>
<td>Economics 2010 or 2030</td>
<td>3</td>
</tr>
<tr>
<td>English 1000/1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1020/1021</td>
<td>3</td>
</tr>
<tr>
<td>Microbiology 1001, 1002</td>
<td>4</td>
</tr>
<tr>
<td>Political Science 2051</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Psychology 2000</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 2001</td>
<td>3</td>
</tr>
<tr>
<td>Arts elective</td>
<td>3</td>
</tr>
<tr>
<td>Politics 2011</td>
<td>3</td>
</tr>
<tr>
<td>Microbiology 1001, 1002</td>
<td>4</td>
</tr>
<tr>
<td>Political Science 2051</td>
<td>3</td>
</tr>
</tbody>
</table>

The following prenursing program prepares students to enter the professional nursing curriculum leading to the Associate Degree in Nursing at the LSU Medical Center School of Nursing in New Orleans. Pre-requisite foundation courses are:

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1000/1001</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 2000</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 1001, 1002, 1201,</td>
<td>3</td>
</tr>
<tr>
<td>or 1202</td>
<td></td>
</tr>
<tr>
<td>Mathematics 1020/1021</td>
<td>3</td>
</tr>
<tr>
<td>or 1023</td>
<td>12</td>
</tr>
</tbody>
</table>

In addition to the above, students must complete 8 hours of anatomy and physiology from an approved college or university prior to admission.

Corequisite courses required prior to graduation that may be taken in Baton Rouge or at LSUIMC (* indicates LSUIMC courses):

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1002</td>
<td>3</td>
</tr>
<tr>
<td>HLSC 2401*, 2402*, or Microbiology 1001, 1002, or 2051</td>
<td>4</td>
</tr>
<tr>
<td>Psychology 2009*, or 2070</td>
<td>3</td>
</tr>
<tr>
<td>Biometry 3115* or Psychology 2011</td>
<td>3</td>
</tr>
</tbody>
</table>

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.
HONORS COLLEGE

BILLY M. SEAY
Dean

JAMES D. HARDY, JR.
Associate Dean for Academic Services

PATRICK C. LIPSCOMB, III
Associate Dean for Student Services

CAROLINA V. HOOD
Assistant to the Dean

201 LSU Honors Center
(504) 388-8831
FAX • (504) 388-4125

The LSU Honors College provides intellectual opportunity and challenge for academically able and intellectually motivated undergraduate students. Honors students pursue a rigorous academic program that satisfies all requirements of their academic departments and colleges and goes beyond those requirements to provide the basis for outstanding achievement and appropriate recognition for that achievement. From small enrollment interdisciplinary seminars in the freshman year to independent research activities in preparation for the senior honors thesis, honors students work closely with selected members of the faculty.

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. Interdisciplinary courses in humanities and liberal arts form the core of the students’ academic program. Students working toward honors recognition also take honors science or mathematics courses.

Honors students in the junior and senior years usually become more focused in a particular academic discipline. Upper division honors work is characterized by intense intellectual involvement, rigorous standards, and a high level of increasingly independent achievement. Upper division honors work typically culminates in a senior honors thesis or senior honors project under the direction of a faculty member from the student’s major department.

Participation in the Honors Program 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, such as the literature requirement of the College of Arts & Sciences or the College of Basic Sciences. Honors College and departmental advisers assist in assuring that students meet all requirements of each student’s major curriculum.

ADMISSION AND RETENTION

Entering Freshmen

Entering freshmen with the following minimum ACT or SAT scores and a 3.00 high school GPA are invited to apply for admission to the college.

• ACT requirements—28 composite and 28 English or 27 composite and 30 English.
• SAT requirements—1200 total and 570 verbal.

Continuing or Transfer Students

Continuing students who have completed at least their first semester of college and have attained at least a 3.00 GPA are also invited to inquire about admission.

Good Standing

Following the initial semester in the college, an honors student is considered to be in good standing if he or she maintains a minimum overall GPA of 3.00 and successfully completes a minimum of two honors courses per academic year in residence. These courses may be from the college (HNRS), honors sections of departmental courses, or honors option courses. A student not in good standing for two consecutive semesters will be dropped from the college.

Readmission

Students who have been dropped from the college may apply for readmission if:

• They have attained a minimum overall GPA of 3.00.
• They are currently enrolled in an honors course or register for an honors course at the time of request.

Dual College Membership

All Honors College students are also members of either Junior Division or a degree-granting college. Admission to the Honors College is independent of admission to any other academic unit.

FACILITIES AND SERVICES

The LSU Honors Center, located at the corner of Raphael Semmes Drive and Highland Road, houses the Sternberg Honors Library, the Honors Lounge, and honors administrative and academic advising offices.

Sternberg Honors Library • This facility, located on the first floor of the Honors Center, includes study areas and a limited collection of books. Hours are from 8 a.m. to 4:30 p.m. Monday, Wednesday, and Friday, with evening hours scheduled each semester.

Counseling and Priority Registration • The honors administrative staff provides academic counseling for honors students. Honors College students are given priority registration if they preregister for the following semester through the Honors College and are enrolled in a qualifying course.

Undergraduate and Graduate Fellowships • The Honors College coordinates on-campus efforts to assist graduating students interested in applying for graduate awards such as Rhodes Scholarships, Marshall Scholarships, and Mellon Fellowships for the Humanities. Additionally, the Honors College staff identifies and assists students interested in undergraduate awards such as the Harry S Truman Scholarships and Goldwater Scholarships. The college’s Committee for National and International Scholarships counsels and assists students during the application process and, when necessary, interviews and ranks the applicants.

Residence Halls for Honors Students • Blake Hall for female students houses 200; McVoy Hall is available for male students.
Incoming freshmen are advised to apply for a room as early as possible.

**Honors Lounge** • This facility, located in the rear of the Honors Center, is open to all honors students. Keys may be checked out by honors students on a daily basis or for the weekend. The lounge may be used for college parties and meetings. Other honors organizations may request use of the lounge for special events.

**Participation in Honors Councils** • The LSU Honors College is an institutional member of the National Collegiate Honors Council (NCHC), the Southern Regional Honors Council (SRHC), and the Louisiana Collegiate Honors Council (LCHC). These organizations support honors education in the U.S. and deal with issues that face higher education and honors programs across the country. Honors students are encouraged to participate in these organizations and are, thus, able to meet and interact with honors students from across the region and the nation.

**THE HONORS PROGRAM**

Prior to matriculation in the fall semester, qualified students are invited to participate in the honors program. Participants will schedule either Honors 1001/1003, or Honors 1101/1103 in the fall and/or Honors 2002/2004 in the spring. Students may also enroll in honors sections of departmental courses (mathematics, chemistry, psychology, etc.). Following the sophomore year, students may begin honors work in their major field of study. Honors activities in the junior and senior years lead to an honors thesis or honors project. Students must meet all degree requirements of their colleges and major departments, as well as additional requirements of the Honors College.

**Sophomore Honors Distinction**

Students who, by the end of the second year in college, (1) have completed 20-23 hours of honors courses including Honors 1001/1003 or 1101/1103 and/or Honors 2002/2004 and/or Honors 3001/3003 and one honors science sequence or honors math course; and (2) have attained a 3.30 cumulative gpa in all honors courses taken, in all courses taken in the major field, and in all course work undertaken, will be designated as having achieved “Sophomore Honors Distinction.” This designation will be made by the dean of the student’s college upon recommendation of the dean of the Honors College. Recognition includes a notation on the transcript and a certificate awarded after the end of the fourth semester.

**Honors Option**

The honors option is available to students at the upper undergraduate level in programs where separate upper division honors courses and/or sections are not offered. Honors option courses may be used to fulfill requirements in the existing upper division honors programs. Students enrolled in colleges not currently offering upper division honors programs may employ the honors option.

The honors option is open only to students who are eligible to enroll in 3000-level courses or above, and who have a minimum gpa of 3.00 (overall and in honors courses). If the discipline within which a student wishes to employ the honors option already offers honors courses at the 3000 level or above, the student may employ the honors option only with the written consent of the chair of that department.

A student will work with a professor to produce a detailed 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. Contracts must be approved by the Honors College. Honors option regulations and necessary forms may be obtained in the Honors College.

**Upper Division Honors Distinction**

To achieve upper division honors distinction, a student must meet the following requirements:

- Take at least 12 semester hours of honors courses at the 3000 level or above, including 3 to 6 hours of thesis/project.
- Have this sequence of honors courses approved by the college, the major department, the dean of the Honors College, and the president of the Honors Board.
- Demonstrate competence by doing research and preparing a senior honors thesis/project in his or her major subject and by taking an oral examination, or making a presentation of the thesis/project before a committee of three or more faculty members appointed by the chair of the student’s academic department. The thesis or project adviser shall be from the student’s major department. At least one member of the committee shall be from outside the major department.
- Achieve, after the sophomore year, a gpa of at least 3.33 (“A” = 4.0) on both LSU and overall academic work, and for all honors courses used in the student’s upper division honors program, achieve either (a) no grade lower than a “B” or (b) a gpa of at least 3.33.
- Fulfill all additional degree requirements and upper division honors requirements of the student’s college.

**Graduation with College Honors**

To graduate with “College Honors,” a student must meet the following requirements:

- Achieve Sophomore Honors Distinction
- Achieve Upper Division Honors Distinction
- Meet all other requirements for college honors, as established by the student’s own college.

**Upper Division Honors Programs**

Honors programs for junior and senior students have been established in the following departments/curricula. Information about these programs can be obtained from the Honors College or from the appropriate departmental office: Agricultural Business • Agronomy • Animal, Dairy, & Poultry Sciences • Biochemistry • Chemistry • Computer Science • Elementary Grades Education • English • Food & Resource Economics • French • Geology & Geophysics • History • Management • Mass Communication • Mathematics • Microbiology • Physics • Astronomy • Plant Biology • Political Science • Psychology • Sociology • Speech Communication • Zoology & Physiology.

**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 non-honors courses required for their degree programs. A list of honors courses and their curricular equivalents follows (+ = general education course).

<table>
<thead>
<tr>
<th>Honors Courses</th>
<th>Curricular Equivalent</th>
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</thead>
<tbody>
<tr>
<td>1001+</td>
<td>Flexible credit course. If the student has credit for English 1000/1001, Honors 1101 satisfies freshman English and is equivalent to English 1002. If the student already has credit in both English 1000/1001 and 1002, Honors 1101 provides three credits of humanities elective.</td>
</tr>
<tr>
<td>1101+</td>
<td>Flexible credit course. If the student has credit for English 1000/1001, Honors 1101 satisfies the freshman English requirement and is equivalent to English 1002. If the student already has credit in both English 1000/1001 and 1002, Honors 1101 provides three credits of humanities elective.</td>
</tr>
<tr>
<td>1003+</td>
<td>Three credits of history elective or three credits of social sciences elective.</td>
</tr>
<tr>
<td>1103+</td>
<td>Three credits of history elective or three credits of social sciences elective.</td>
</tr>
<tr>
<td>1007+, 11008+</td>
<td>Four credits of biological sciences with lab each (for non-science majors).</td>
</tr>
<tr>
<td>2002+</td>
<td>Three credits of humanities elective. In the Colleges of Arts &amp; Sciences and Basic Sciences, this course may be used to partially satisfy the sophomore literature requirement.</td>
</tr>
<tr>
<td>2004+</td>
<td>Three credits of history elective or three credits of social sciences elective.</td>
</tr>
<tr>
<td>2011, 2012, 2013, 2021</td>
<td>Three credits of humanities or social sciences elective each, depending on the course content in a given semester.</td>
</tr>
<tr>
<td>3001, 3003+</td>
<td>Four credits of humanities or social sciences elective each. In the Colleges of Arts &amp; Sciences and Basic Sciences, may be used to partially satisfy the sophomore literature requirement.</td>
</tr>
<tr>
<td>3030</td>
<td>Three credits of humanities elective.</td>
</tr>
<tr>
<td>3031</td>
<td>Three credits of social sciences elective.</td>
</tr>
<tr>
<td>3033</td>
<td>Three credits of social sciences elective.</td>
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</tbody>
</table>
Three credits of natural sciences elective.

One to six credits in area of major concentration.

Thesis research—three credits each in area of major concentration

<table>
<thead>
<tr>
<th>Departmental Honors</th>
<th>Curricular Equivalent</th>
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<tbody>
<tr>
<td>ANTH 4999</td>
<td>4998</td>
</tr>
<tr>
<td>CHEM 1421 1422</td>
<td>1001 or 1201</td>
</tr>
<tr>
<td></td>
<td>1002 or 1202</td>
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<tr>
<td></td>
<td>1212</td>
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<tr>
<td></td>
<td>2003</td>
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<tr>
<td></td>
<td>2002</td>
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<td></td>
<td>2463</td>
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<tr>
<td></td>
<td>2364</td>
</tr>
<tr>
<td>ENGL 1003</td>
<td>1002</td>
</tr>
<tr>
<td></td>
<td>2021</td>
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<td>2022</td>
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<td>2023</td>
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<td>2026</td>
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<td>2028</td>
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<thead>
<tr>
<th>Departmental Honors</th>
<th>Curricular Equivalent</th>
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<tbody>
<tr>
<td>ENGL 2925, 2927;</td>
<td>2929</td>
</tr>
<tr>
<td></td>
<td>2920, 2921, 2922</td>
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<tr>
<td>FREN 2103 2104</td>
<td>2101</td>
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<td></td>
<td>2102</td>
</tr>
<tr>
<td>GEOL 1002 1004</td>
<td>1001</td>
</tr>
<tr>
<td></td>
<td>1003</td>
</tr>
<tr>
<td>HIST 1002 1004</td>
<td>1001</td>
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<tr>
<td></td>
<td>1003</td>
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<tr>
<td></td>
<td>2056</td>
</tr>
<tr>
<td></td>
<td>2058</td>
</tr>
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<td></td>
<td>2057</td>
</tr>
<tr>
<td>MATH 1101</td>
<td>1100</td>
</tr>
<tr>
<td></td>
<td>1551</td>
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<td>1553</td>
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<td></td>
<td>2086</td>
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<td></td>
<td>2087</td>
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<td>MUS 1703 1704</td>
<td>1701</td>
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<td></td>
<td>1702</td>
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<table>
<thead>
<tr>
<th>Departmental Honors</th>
<th>Curricular Equivalent</th>
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</thead>
<tbody>
<tr>
<td>MUS 2713 2714</td>
<td>2711</td>
</tr>
<tr>
<td></td>
<td>2712</td>
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<tr>
<td>POLI 2052</td>
<td>2051</td>
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<tr>
<td></td>
<td>3896</td>
</tr>
<tr>
<td></td>
<td>4996</td>
</tr>
<tr>
<td>PSYC 2001</td>
<td>2000</td>
</tr>
<tr>
<td>REL 1006 1015</td>
<td>1005</td>
</tr>
<tr>
<td></td>
<td>1003</td>
</tr>
<tr>
<td>SPAN 2103</td>
<td>2101</td>
</tr>
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<td></td>
<td>2104</td>
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<td>SPCM 1062</td>
<td>1061</td>
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<tr>
<td>THTR 1021</td>
<td>1020</td>
</tr>
<tr>
<td>ZOOL 1203</td>
<td>1202</td>
</tr>
</tbody>
</table>

See the section “Courses of Instruction” for additional departmental honors courses with no specified curricular equivalents.
MANSHP SCHOOL OF
MASS COMMUNICATION

JOHN M. HAMILTON
Dean

RONALD GARAY
Associate Dean for Undergraduate Studies and Administration

RICHARD A. NELSON
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222 Journalism Building
(504) 388-2336
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MANSHP CHAIR OF MASS COMMUNICATION • Kohler

PROFESSORS • Day, Fletcher, Garay, Hamilton, Hebert, Kohler, Nelson, Windhauser

ASSOCIATE PROFESSORS • McMullen, Mundt

ASSISTANT PROFESSORS • Daniels, d’Hemecourt, Mayo, Perkins, Sylvester

INSTRUCTOR • Berthelot

ADMISSION REQUIREMENTS

Admission to the curriculum in the Manship School of Mass Communication requires a student to have completed at least 24 semester hours with a grade-point average of 2.50 or above in work taken within the LSU System and on all work taken. A student who does not meet these criteria may remain in Junior Division classified as "pre-mass communication." A student who has not achieved at least a 2.50 on all work taken at LSU and on all work taken after 60 hours have been attempted, must select another major, or, having met school requirements, may petition for a waiver of the 2.50 admission requirement based on special circumstances.

The appearance of a mass communication curriculum code on any University document does not constitute admission to the Manship School of Mass Communication.

The Manship School of Mass Communication offers a selected group of courses to nonmajors. These are as follows: MC 2000, 2091, 2010, 3000, 3001, 3002, 3030, 3080, 3700, 3720, 4001, 4004, 4005, 4010, 4034, 4035, 4085, 4103, 4710, and 4971.

Five areas of concentration are offered by the school; advertising, electronic media, journalism, political communication, and public relations. All are fully accredited by the Accrediting Council on Education in Journalism and Mass Communications. In addition, mass communication is available as a concentration in the Bachelor of Arts in liberal arts degree.

Mass communication students are expected to be proficient in the use of English. Proficiency in keyboarding is also required. This proficiency should be acquired before students enroll in their first reporting course. All written assignments must be typed-written. Students must provide word processors or typewriters for all of their assignments except those written in scheduled laboratories.

The degree of Bachelor of Arts in Mass Communication (B.A.M.C.) is conferred upon students who complete a concentration in advertising, electronic media, journalism, political communication, or public relations. The Bachelor of Arts in Liberal Arts degree is conferred upon students who complete the mass communication concentration in liberal arts.

Mass communication majors must earn at least a "C" in any mass communication course. For any mass communication course, a "C" or better is required in prerequisite mass communication courses.

The advertising concentration develops skills in marketing, research, media, and creative planning and execution. Graduates typically become involved in account development and management; media analysis, research, and sales; copywriting; advertising design; and sales promotion.

The electronic media concentration prepares students for careers in sales, promotion, program production, and management for the various electronic media industries, including radio, television, cable, and the emerging technologies. Graduates normally aspire to careers in electronic media sales and sales management, promotion, or programming.

The journalism concentration merges courses formerly listed under broadcast journalism and newspaper editorial. This concentration develops skills in researching, interpreting, organizing, and reporting in a factual manner issues of vital importance to a democratic society. Students are cross-trained in the format and structure of journalism for print (newspapers and magazines), broadcasting (radio and television), and in the newly emerging journalism of targeted computer-mediated dissemination. Graduates usually become reporters, editors, and producers.

The political communication concentration develops skills in interpreting and communicating information to mass media practitioners and other individuals involved in the political process. Students normally aspire to careers in public or governmental communication, political reporting, and political campaigns.

The public relations concentration develops skills and prepares future practitioners in planning and executing the building of relationships and coalitions to advance an enterprise. Graduates typically move to positions in media, governmental, investor, community, and employee relations; special events management; issues management; and public relations counseling.

Mass communication students gain considerable practical experience to supplement classroom instruction. In some courses, students work on news and advertising assignments for The Daily Reveille, for the campus radio station, KLUS, and for the campus television station, LSU-TV. Students in advanced reporting courses acquire experience with the Baton Rouge Advocate, and other local media.

An honors program is available. Requirements may be obtained from the Honors College, 120 LSU Honors Center.
MINORS

All mass communication students must complete a minor in one department other than mass communication. The minor will be defined by the minor department. In departments that have not defined a minor, one will consist of 18 hours beyond any courses required in the mass communication curriculum, at least six of which must be numbered 3000 or above.

Students minoring in mass communication must complete 18 semester hours in the Manship School of Mass Communication.

- General Minor: Students desiring to pursue a general minor in mass communication must complete the following six core courses: MC 2010, 2015, 2020, 3018, 3080, 4090.
- Students wishing to pursue a higher degree of professional specialization in the minor must complete MC 2000, 2010, 2015, and 9 hours from one of the following groups:
  - Group I: Advertising • MC 2020, 3038; 3031 or 4034.
  - Group II: Electronic Media • MC 3650, 3700, 4710.
  - Group III: Journalism • MC 3200, 3202, 3210.
  - Group IV: Political Communication • MC 3500, 4510, 4515.
  - Group V: Public Relations • MC 2020, 3038, 4001.

CURRICULUM IN MASS COMMUNICATION

TOTAL SEM. HRS. • 128

Students majoring in mass communication must complete at least 36 hours in mass communication courses, including 18 hours of core courses—MC 2010, 2015, 2020, 3018, 3080, and 4090—and all of the requirements under one of the areas of concentration listed below; advertising, electronic media, journalism, political communication, or public relations.

*Students choosing French, German, or Spanish as their foreign language will take 4 to 8 hours in the freshman year, depending on placement, and 6 hours in the sophomore year. Some adjustment in elective hours may be necessary.

**MC 2000 is counted as a general education humanities course, but may not be counted toward the mass communication major.

FRESHMAN YEAR SEM. HRS.
English 1000/1001, 1002 .................................. 6
Foreign language courses* .................................. 6-10
History 1001, 1003 or Geography 1001, 1003 ........ 6
Mass Communication 2000.................................. 3
Mathematics 1020/1021 or 1029 ............................. 3
General education sciences courses (year course in biological or physical sciences) .......... 6
Library and Information Science 1001 .................. 1

33-35

SOPHOMORE YEAR SEM. HRS.
Economics 2010, 2020, or 2030 ......................... 3-6
General education analytical reasoning course .......... 3
General education biological or physical sciences course .... 3
History 2055, 2057 ........................................ 6
Area of concentration courses .......................... 0-3
Approved humanities or social sciences course .......... 3
General education social sciences courses ............. 3

30-36

JUNIOR YEAR SEM. HRS.
Area of concentration courses .......................... 9-12
Mass Communication 3018, 3080 ......................... 6
Approved electives ....................................... 6-9
Approved social sciences or humanities elective ...... 9

30-36

SENIOR YEAR SEM. HRS.
Mass Communication 4090 .................................. 3
Area of concentration courses ............................ 12-15
General education arts course (select from art, music, philosophy, theatre) .................. 3

Approved social sciences or humanities elective ........ 6
Approved electives ....................................... 6-9

30-36

Areas of Concentration

- Advertising Area (27 hrs.)
  Mass communication requirements (12 hrs.): MC 3031, 3038, 4034, 4036; electives (6 hrs.); other requirements (9 hrs.): ACCT 2000 or 2001, MKT 3401, 3421.

- Electronic Media Area (21 hrs.)
  Mass communication requirements (12 hrs.): MC 3650, 3700, 4035, 4710; electives (6 hrs.); other requirements (3 hrs.): ACCT 2000 or 2001.

- Journalism Area (24 hrs.)
  Mass communication requirements (12 hrs.): MC 3200, 3202, 3210, and one of the following: MC 4010, 4081, 4250, 4260; electives (6 hrs.); other requirements (6 hrs.): HIST 4065, ACCT 2000 or 2001, or one approved statistics course.

- Political Communication Area (24 hrs.)
  Mass communication requirements (12 hrs.): MC 3200, 3210, 3500, and 4510 or 4515; electives (6 hrs.); other requirements (6 hrs.): SPCM 4100, EXST 2201, or an equivalent approved statistics course.

- Public Relations Area (30 hrs.)
  Mass communication requirements (12 hrs.): MC 3010, 3038, 4001, and 4005; electives (6 hrs.); other requirements (12 hrs.): ACCT 2000 or 2001, HIST 4065, MGT 3200, MKT 3401.
The School of Music's educational purpose is to assist students in the development of their innate musical talents and to help them make the musical arts a cultural asset in their own lives and in the lives of others. To attain these goals, the School of Music offers several curricula and special courses of vocational as well as avocational nature. These curricula are outlined in the following chart. 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 Liberal Arts with a concentration in music. For additional information, see the section of this catalog titled, "College of Arts & Sciences."

The first two years of a music therapy curriculum are offered at LSU. 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.

ADMISSION REQUIREMENTS

From Junior Division • Students may be admitted to the School of Music from Junior Division on the basis given in the Junior Division section of this catalog, provided that they have credit for the freshman-year courses of the curriculum they plan to follow. Students must have earned an overall average of 2.00 or better in order to be admitted unconditionally to the Bachelor of Music degree program and 2.25 or better to be admitted unconditionally to the Bachelor of Music Education degree program. Freshmen who plan to work for a degree in music should register for the courses listed in the freshman year of the music curriculum of their choice.

By Transfer • Transfer students from other divisions of the University or from other colleges and universities who have met the general entrance requirements of the University, who have completed college courses equivalent to those offered in Junior Division, and who have passed the required audition for admission may be admitted to the school.

All transfer students 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.

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 or music curricula administered through the College of Arts & Sciences. The audition can be on campus or by tape recording. Contact the School of Music for details.

For Applied Music Courses • All applied music courses are open to both majors and non-majors by audition only. New students should contact the School of Music to arrange an audition during the telephone registration period the semester prior to the one in which the student wishes to be enrolled. Students who register for applied music courses and do not audition before telephone registration closes will be rejected. Students who have been out of school for more than one year and who return to continue in a performance curriculum must re-audition. Auditions may also be arranged during walk-through registration at the beginning of each semester.

For Ensemble Courses • All music ensemble courses are open to both majors and non-majors by audition only, with the exception of MUS 4230, 4232, 4233, and 4234, which require no audition. Students who are transfers must contact the director of the ensemble in which they wish to participate to arrange an audition during the telephone registration period the semester prior to the one in which the student wishes to participate. Auditions may also be arranged during walk-through registration at the beginning of each semester.

Transfer students from other divisions of the University 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 may be admitted to the school. All transfer students 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.
CORRESPONDENCE AND EXTENSION CREDITS

Up to one-fourth of the number of hours required for the baccalaureate degree may be taken in correspondence and/or extension courses. Acceptance of such work is dependent upon its applicability to the student’s curriculum; therefore, students should obtain approval from the dean of the School of Music before registering for correspondence or extension courses. Correspondence study in theory and work in applied music completed through other universities or colleges must be verified as corresponding to this University’s level of accomplishment by examination and auditions.

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 6 semester hours must be taken on this campus and at the 3000 and/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.

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.

MINORS IN MUSIC

Minors in music are available in the areas of composition, brass, woodwinds, percussion, strings, harp, piano performance, organ, and voice. Requirements for a minor in music are:
- MUS 1701, 1702, 1753, 1754, and 12 hrs. of the appropriate major applied music course.
- At least 6 semester hours must be taken on this campus and at the 3000 and/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.

REQUIREMENTS FOR A SECOND BACHELOR’S DEGREE

A person holding a baccalaureate degree who wishes to obtain a second baccalaureate degree through this school must satisfactorily complete all requirements in the music 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 with majors in musicology and music education. The requirements for these degrees are given in the Graduate Bulletin.

PHI KAPPA PHI

Phi Kappa Phi, a national scholastic honor society founded in 1897, now contains 243 chapters nationwide. It is one of the most prestigious scholastic honor societies in the U.S. The LSU chapter was founded in 1930 as the 43rd chapter in the nation. At the present time, the national office is located on this campus in the French House.

The primary objectives of Phi Kappa Phi are to promote the pursuit of excellence in higher education and to recognize outstanding achievement by students and faculty through election to membership and through various awards and fellowships. Phi Kappa Phi is unique because it recognizes superior scholarship in all academic fields, rather than restricting membership to a limited field.

Undergraduates and graduate students who rank in the top 10 percent of their graduating 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.

FACULTY AND CURRICULA

DEAN • Ross, Professor
OFFICE • 102 Music Building
TELEPHONE • (504) 388-3261

BOYD PROFESSOR • Constantinides
EDITH KILLGORE KIRKPATRICK ENDOWED PROFESSOR • Grayson

ALUMNI PROFESSOR • Guerry
ARTIST-IN-RESIDENCE • Arroyo
PROFESSIONAL-IN-RESIDENCE • J. Grimes (Staff Accompanist)

PROFESSORS • L. Campbell, Constantinides, Fulton, Grayson, Guerry, Hallman, Herlinger, Kemler, Kosmala, Ludwig, McKenzie (Associate Dean), Ostoich, Raush, Ross, Spillman, Wickes, Yarbrough

ASSOCIATE PROFESSORS • Astraquillo, Beck, M. Brown, Byo, G. Campbell, Cassidy, Cohen, W. Grimes (Assistant Dean), Kaplan, O’Neill, D. Parker, Rountree, Smyth, Walter, West

ASSISTANT PROFESSORS • Austin, Bade, Baird, Benjamin, J. Brown, Gurt, Jemison, Keisker, Marrero, Perry

INSTRUCTORS • Kronick, Moorhouse, Nash, E. Parker, Patrick-Harris

All students enrolled for private lessons in performance, regardless of their college or school (with the exception of graduate key- board 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.

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 6 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 that will satisfy the general education requirement. Please refer to the list of approved general education courses that 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 that 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.
DEGREE Music English CURRICULUM Music General General Sophomore Area General General Senior Electives Music General General Music Areas ♦ Completion of a minimum of 132 semester hours with a grade-point average of 2.00 or better on all work attempted. ♦ A grade of "C" or better in all required music courses.

CURRICULUM IN MUSIC

TOTAL SEM. HRS. • 132

FRESHMAN YEAR SEM. HRS.

English 1000/1001, 1002 ........................................ 6
Mathematics 1020/1021 or 1029 ................................ 3
General education analytical reasoning course ................. 3
Music 1700 (2 semesters) .................................... 0
Music 1701, 1702 .............................................. 8
Major applied music courses .................................. 6
Area of concentration courses ................................ 5
Electives .................................................................. 3

TOTAL ..................................................................... 34

SOPHOMORE YEAR SEM. HRS.

General education natural sciences courses ...................... 6
General education humanities course ............................. 3
Music 1700 (2 semesters) .................................... 0
Music 1753, 1754 .............................................. 6
Music 2711, 2712 .............................................. 8
Major applied music courses .................................. 6
Area of concentration courses ................................ 5

TOTAL ..................................................................... 34

JUNIOR YEAR SEM. HRS.

General education humanities courses .......................... 6
General education natural sciences course ....................... 3
Music 1700 (2 semesters) .................................... 0
Music 3711 ................................................................ 3
Major applied music courses .................................. 6
Area of concentration courses ................................ 11
Electives .................................................................. 3

TOTAL ..................................................................... 32

SENIOR YEAR SEM. HRS.

General education social sciences courses ....................... 6
Music 1700 (2 semesters) .................................... 0
Music history elective courses ................................. 4
Major applied music courses .................................. 5
Area of concentration courses ................................ 14
Electives .................................................................. 3

TOTAL ..................................................................... 32

Areas of Concentration

♦ Composition Area

Major Ensemble Courses (7 hrs.).

Secondary Applied Courses (14 hrs.)—7 semesters are required at least 6 of which must be in the same instrument.

Other Required Courses (14 hrs.)—MUS 3771, 4721, 4723, 4730, 4743, 4798.

Other Requirements—Piano proficiency at the level of completion of MUS 1133 and participation in Composer's Forum. In the senior year, MUS 4745, Computer Music, may be substituted for one semester of MUS 3151. Major Applied Electives in such areas as computer science, acoustics, and aesthetics are recommended.

♦ Brass/Woodwind/Percussion Area

Major Ensemble Courses (8 hrs.).

Chamber Music Courses (4 hrs.).

Other Required Courses (11 hrs.)—MUS 1130, 1131, 1132, 1133, 3771, 4797; select one from MUS 4712, 4718, 4719, 4720, 4721, or 4723.

Approved Electives—A minimum of 12 hrs. chosen from MUS 2131, 3131, 2751, 2752, 3772, 4226, 4227, 4253, 4761, 4762, and any 4000-level courses in music history or theory other than those applied to degree requirements (8 hrs. maximum) and any foreign language courses (10 hrs. maximum).

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 Barri er Examination.

♦ String Area

Major Ensemble Courses (8 hrs.).

Chamber Music Courses (4 hrs.).

Other Required Courses (11 hrs.)—MUS 1130, 1131, 1132, 1133, 3771, 4797; select one from MUS 4712, 4718, 4719, 4720, 4721, or 4723.

Approved Electives—A minimum of 12 hrs. chosen from MUS 2131, 3131, 3000, 3997, 4224, 4228, 4253, 4260, and any 4000-level courses in music history or theory other than those applied to degree requirements.

♦ Harp Area

Major Ensemble Courses (8 hrs.).

Chamber Music Courses (4 hrs.).

Other Required Courses (19 hrs.)—MUS 1130, 1131, 1132, 1133, 3771, 4772, 4773 (minimum of 4 semesters) 4774, 4797; select one from MUS 4712, 4718, 4719, 4720, 4721, or 4723.

Free Electives (4 hrs.).

♦ Piano Performance Area

Major Ensemble Courses (8 hrs.)—MUS 4101, 4220, and 4224 may be used to satisfy part of the major ensemble requirement.

Other Required Courses (22 hrs.)—MUS 3748 or 3771 and MUS 4723, 4757, 4758, 4763, 4764, 4797; select one from MUS 4712, 4718, 4719, 4720, or 4721.

Approved Electives—A minimum of 5 hrs. chosen from MUS 2133, 3133, 4767, 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.

♦ Piano Pedagogy Area

Major Ensemble Courses (8 hrs.)—MUS 4101, 4220, and 4224 may be used to satisfy part of the major ensemble requirement.

Other Required Courses (23 hrs.)—MUS 3748 or 3771 and 4757, 4758, 4763, 4764, 4769, 4770, 4797; select one from MUS 4712, 4718, 4719, 4720, 4721, or 4723.

Music Electives (4 hrs.).

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.

♦ Organ Area

Major Ensemble Courses (8 hrs.)—MUS 4101, 4220, and 4224 may be used to satisfy part of the major ensemble requirement.

Other Required Courses (25 hrs.)—MUS 2131 or 3131 (8 hrs. and a minimum of 4 semesters) and MUS 3748, 3757, 3758, 4701, 4702, 4797; select one from MUS 4712, 4718, 4719, 4720, 4721, or 4723.

Free Electives (2 hrs.).

♦ Voice Area

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, 1018, 2019, 1130, 1131, 1132, 1133, 3018, 3748, 4240 (2 semesters) 4351, 4352, 4797.

Approved Languages (6 hrs.).

BACHELOR OF MUSIC EDUCATION PROGRAM

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 2.20 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:

• pass the applied music upper-level examinations for music education majors;
• score a minimum of 643 on the General Knowledge and 645 on the Communication Skills portion of the National Teachers' Examination;
• pass a piano proficiency examination and piano majors must satisfy vocal proficiency requirements;
• have a minimum 2.50 gpa;
• 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 3135, 3170, 3171, 3630, or PSYC 4070 until they have been accepted into the teacher education program in music education by successfully completing the Sophomore Barrier Examinations.

All students are expected to earn a grade of "C" or better in the following, or have the equivalent transfer credit: ENGL 1002, 1003, 1005 (international students), 2001, or 2002. 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 Wednesdays. 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 an overall 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 4070, regardless of the institution(s) attended.
• Completion of all courses.
• Proficiency in written expression.

DEGREE REQUIREMENTS

Degrees in the music education programs in this college are conferred when the following conditions have been met:

• Completion of a minimum of 132 semester hours with an average of 2.50 on all work taken, with no grade less than a "C" in music and in professional education courses.

• Completion of the final 30 semester hours of work done in residence on the LSU campus as a registrant in the School of Music.

• Satisfactory completion of an approved program of music education that has been determined and approved by the faculty of the School of Music, the LSU Teacher Education Council, and the Louisiana Board of Elementary and Secondary Education.

• Proficiency in written expression.

PROFICIENCY IN ENGLISH

To be certified as proficient in English, students in this school must earn a grade of "C" or better in ENGL 1002, 1003, 1005 (international students), 2001, or 2002 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.

NATIONAL TEACHER EXAMINATION

A satisfactory score on the National Teacher Examination (NTE) is required for teacher certification in Louisiana. Specific information and registration forms are available from the student's advisor.

CORRESPONDENCE AND EXTENSION CREDITS

Up to one-fourth of the number of hours required for the baccalaureate degree may be taken through the Division of Continuing Education by correspondence study, registration as an extension student, or both. Students may not schedule correspondence or extension work during the last 30 hours of their program. Time limits for correspondence study will be imposed to ensure that these courses cause as little conflict as possible with regular classes.

ALTERNATE CERTIFICATION PROGRAM

Individuals who have completed a baccalaureate degree from a regionally accredited institution, with a major or other concentration in a teacher certification area, and a gpa of at least 2.50 may be eligible for the Alternate Post-Baccalaureate Certification Program. Information regarding this program is available from the music education faculty.

LSU TEACHER EDUCATION COUNCIL

The Teacher Education Council provides governance for all teacher education programs offered within the University. The council is responsible for setting and achieving teacher education goals, establishing policies, fixing responsibilities for program development, identifying and utilizing resources, and facilitating continuing development and improvement of basic and advanced teacher education programs.

CURRICULUM IN MUSIC EDUCATION

TOTAL SEM. HRS. • 132-134

All students in the B.M. Ed. program shall participate in band (MUS 4250, 4251, 4252), orchestra (MUS 4261), or chorus (Music 4234, 4236, 4240) for four years. Large ensemble assignments are made at the discretion of the counselor and the ensemble conductors. Any request for adjustment of the rules pertaining to performance in large ensembles must be submitted to a reviewing committee.

Students wishing to be certified in more than one area (band and orchestra, band and vocal, etc.) should see their faculty advisors for certification requirements and proficiencies. Such programs normally require a minimum of five years to complete.

Piano proficiency at the level of MUS 1133 or equivalent and satisfactory completion of six semesters of recital hour (Music 1700) are required.

Students must schedule a two-semester sequence in either a biological or a physical science.

FRESHMAN YEAR

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<td>Applied music courses</td>
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<td>Major ensemble courses</td>
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<td>Mathematics 1020/1021 or 1029</td>
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<td>Area of concentration courses</td>
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SOPHOMORE YEAR

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<td>General education approved biological science, or listed</td>
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JUNIOR 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 dean of the LSU School of Music for information.
THE GRADUATE SCHOOL
AND PROFESSIONAL PROGRAMS

THE GRADUATE SCHOOL

CONCEPTS AND PURPOSE

The primary purpose of the Graduate School is 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 may be considered the state center of academic research and advanced studies as it carries on 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. The school was established because the University recognized its obligation to provide an environment for research and free inquiry and to make the results of these activities available to the public.

As a major center of graduate education, LSU adds a vital dimension to the education of undergraduates. Few institutions of higher learning (no others in Louisiana and fewer than 2 percent nationally) can offer undergraduates the opportunity to work with professors engaged to the depth and extent of the faculty at LSU, not just in passing on information, but also in testing accepted ideas and in discovering new knowledge.

Doctoral research programs are the essential defining feature of a university; without them, the institution would more properly be called a college. LSU’s status as one of the top 70 research universities in the nation, its classification as a Research University I by the Carnegie Foundation, depends chiefly on two criteria held to be prime indicators that an institution is a major center for the creation of new knowledge. These criteria are outside funding for research and the number of new Ph.D.s produced each year. Doctoral education, the training of future generations of scholars, keeps LSU—and helps to keep Louisiana and the nation—on the leading edge of discovery.

LSU offers doctoral programs in 55 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 77 major fields. These range from Master of Fine Arts degrees in creative writing, studio art, and theatre to professional degree programs in social work, in business administration, and in library and information science.

Students seeking the professional degree, Doctor of Veterinary Medicine (D.V.M.), 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 obtained from the LSU Graduate School, 114 David Boyd Hall, Louisiana State University, Baton Rouge, Louisiana 70803.

Additional information about specific graduate and professional programs is published in catalogs, bulletins, and 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 1951 through summer 1994, 5,610 Doctor of Philosophy degrees, 359 doctorates other than Doctor of Philosophy degrees, and 31,165 master’s degrees were awarded. The total number of advanced degrees awarded by LSU thus reached 38,503.

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 ten faculty members appointed by the Chancellor for rotating terms of five years each. The Council considers proposals for new degree programs, recommends membership classifications on the graduate faculty, and makes recommendations to the graduate faculty for changes in Graduate School policy.

ADMISSION • GENERAL INFORMATION

Admission to the Graduate School is awarded on the basis of evidence of academic achievement and promise. Applications of students who meet Graduate School requirements are forwarded to the appropriate academic units for final approval. Because of their nature, certain programs require higher admission standards than those of the Graduate School. Due to the high demand for many graduate programs, meeting the minimum requirements of the Graduate School does not...
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### GRADUATE AND PROFESSIONAL DEGREES

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<tr>
<td>Zoology &amp; Physiology</td>
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<td>M.S., Ph.D.</td>
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Interdepartmental programs are indicated by one asterisk (*). The Ph.D. in business administration is available with concentrations in finance, management, marketing, and quantitative business analysis (**). Program is temporarily suspended (**).

Guarantee admission into a particular program.

Applicants meeting requirements stated below are normally granted regular admission. Applicants failing to meet all requirements may be admitted on probation, provided other substantial evidence of capacity.

 Applicants who have completed a minimum of 20 hours of graduate coursework with a grade-point average of 3.50 or equivalent, on all college-level work previously attempted. The Graduate Record Examination or GRE may be used to compensate for a low GPA; in place of the GRE, a satisfactory score on the Graduate Management Admission Test (GMAT) is required for graduate programs in the College of Business Administration, except for the M.P.A. and the M.S. and Ph.D. in economics.

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 the Graduate Bulletin and individual departments for additional admission requirements.

### 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 grade-point average of at least 3.00 ("A" = 4) on all undergraduate work (or last 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, a satisfactory score on the Graduate Management Admission Test (GMAT) is required for graduate programs in the College of Business Administration, except for the M.P.A. and the M.S. and Ph.D. in economics.
- 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 the Graduate Bulletin and individual departments for additional admission requirements.

**Probationary Admission** - Applicants who fail to meet one or more of the requirements for regular admission may be admitted on probation, provided additional evidence of capacity to do satisfactory work is presented. Such evidence might include superior performance in a substantial amount of post-baccalaureate work, high GRE scores (GMAT scores, when appropriate), and other achievements.

Students entering on probation will remain on probation until the completion of nine hours of graduate-level, graded courses ("A", "B", and "C" only) with at least a 3.00 average. Part-time students entering on probation and registering for fewer than nine hours may be dropped from the Graduate School if their grade-point average is less than 3.00 during any semester they are registered.

Students admitted on probation may not be appointed to assistantships or fellowships until they attain good academic standing.

**Provisional Admission** - Provisional admission may be considered for an applicant who appears to be admissible on the basis of the credentials submitted, but who is unable to supply all of the required official records prior to registration. A student admitted provisionally must then submit complete and satisfactory records within 60 days (45 days in summer term) after the first day of registration. 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 the following:

- a complete and accurate chronological outline of all previous college-level education;
- authorized school or university records—transcripts, marksheets, certificates of degrees—showing all courses taken and all grades received, with certified translations if the records are in a language other than English;
- a bachelor's degree or its equivalent, with a grade-point average equivalent to a "B" or better (3.00 out of a possible 4.00) on all previous undergraduate work (or last 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 with a stipend of at least $8,000 is not offered) before the letter of admission and Form I-20 will be mailed;
- GRE General Test scores averaging 500 each on verbal and quantitative (GMAT when appropriate); and
- satisfactory scores on the Test of English as a Foreign Language (TOEFL), except for applicants from Canada, Australia, New Zealand, Ireland, certain Caribbean islands, Belize, and the United Kingdom.

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 also exempt from taking the TOEFL.

A TOEFL score of at least 550 must be received before a student’s application is evaluated for admission. Application forms and information about the TOEFL may be obtained from American embassies and consulates, offices of the U.S. Information Service, or Educational Testing Service, CN 6000, Princeton, New Jersey, USA 08541-6000.

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 months prior to the semester in which they plan to enroll. Applications received after the deadline dates will be processed for the following semester or summer term. Also, when sufficient scholastic records and acceptable evidence of English proficiency are not received early enough to determine admissibility for the semester for which application is made, consideration for a subsequent semester will be made only upon the applicant’s written request.

Upon arrival on campus and before registration, international applicants (except citizens of Canada, Australia, New Zealand, Ireland, or the United Kingdom, certain Caribbean islands, and Belize) who have been admitted to Graduate School must take the LSU Comprehensive English Language Test, which consists of the Michigan Test and a writing sample. If the test indicates a deficiency in English, the student 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 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 Graduate Admission” packet may be obtained from the Graduate School or from the graduate department to which application is being made. All applications for graduate admission must be accompanied by a nonrefundable $25 application fee (check or money order made payable to LSU). Cash should not be sent 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 deadline date. 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 other financial aid for which the applicant has applied. Deadlines are May 15 for the fall semester; October 15 for the spring semester; May 15 for the summer term.

International applicants are encouraged to determine course availability before applying for summer entry and are further encouraged to apply nine to twelve months in advance of their intended semester of entrance. Applicants 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 Graduate Admission;
- The proposed program of graduate study (last page of application);
- The required application fee and any applicable late fee;
- Two official copies of all transcripts in sealed envelopes (all transcripts are required, whether or not credit was earned or is desired);
- Three letters of recommendation in sealed envelopes;
- Financial statement (international students only).

The applicant should collect all transcripts and letters of recommendation in sealed envelopes and send them with the completed “Application for Graduate Admission” in the large envelope provided in the application packet. Students should ask the registrar’s office to mail two copies of transcripts directly to them. After all transcripts and letters of recommendation have been collected, the sealed envelopes should be placed in the large envelope with the application and the application fee.

II. The following is also to be sent to the Graduate School, 114 David Boyd Hall:

- A satisfactory score on the aptitude portion of the Graduate Record Examination (GRE). (The LSU code for GRE reporting is R6373-5; also indicate the appropriate department code, so that scores will be forwarded automatically to the department to which application is being made.) The GRE is given five times a year—in October, December, February, April, and June—at testing centers in this country and abroad. LSU is an approved testing center. Test applications 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, New Jersey 08541-6000. The completed test application form and examination fee must reach the Educational Testing Service approximately one month in advance of the testing date. At least six weeks should be allowed for the examination results to reach LSU. Test scores sent to LSU as the undergraduate institution do not reach the Graduate School.

- 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 a writing sample.
- The Graduate Management Admission Test (GMAT) is required of applicants for all degrees in the College of Business Administration, except the M.P.A. and the M.S. and Ph.D. with a major in economics. Application procedure for the GMAT is the same as described above. This examination may also be taken at LSU; the code for GMAT score reporting is also R6373-5.

III. Applicants may be responsible for submitting additional materials to the department to which they are applying.

Most departments have specific departmental admission requirements. For specific information, consult the individual departments.

Admission is for the semester requested. Those admitted who do not register must make the deposit and reapply for admission for a subsequent semester. The Graduate School will not consider for admission any nonimmigrant who has entered the U.S. on an I-20 issued by another institution until that person has been enrolled for at least one semester at the institution issuing the I-20.

NONDEGREE ADMISSION

A student who holds a baccalaureate degree but who does not desire to enroll in a degree program in the Graduate School may enroll as a graduate nonmatriculating student. Course work is taken for academic credit, and all rules and regulations for graduate students apply. A student in this category must register for at least one course numbered 4000 or above each semester to maintain graduate status. Courses numbered below 4000 may be taken concurrently with graduate course work.

Enrollment in courses numbered 6000 and above is limited to a total of six semester hours for graduate students in this classification. However, an unlimited number of courses numbered 5999 and below may be taken. No more than 12 hours of graduate credit taken as a nonmatriculating student may be applied toward the requirement for a master’s degree. The total number of semester hours to be applied toward a master’s degree from transfer credit, and from credit taken while classified as an extension or nonmatriculating student, may not exceed one-third of the total semester hours of graduate course work (the six hours excepted) required for the student’s degree program—a maximum of nine hours in a master’s degree program requiring 24 hours of coursework. (See the section concerning transfer 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.

An application for graduate nondegree admission may be obtained from the Graduate
School. No scholastic records are required to process the application. A nonrefundable application fee of $25 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 instructors and the graduate dean, and have made the necessary arrangements and paid the required fees. Prospective auditors should initiate registration by obtaining an “audit only” form from the Office of Student Records & Registration.

Regularly enrolled graduate students may also audit courses with consent of the individual instructors. Auditors will not receive degree credit and will not be permitted to take a credit examination on audited course work. However, previously audited courses may be taken for credit. Audited courses do not count in total course loads and are not recorded on official transcripts.

READEMISSION

Readmission to Original Program

Previously enrolled graduate students who fail to enroll for three or more semesters (summer term included) must file an “Application for Readmission” form with the Graduate School. Their applications for reentry will be subject to re-evaluation under current admission criteria; readmission is not guaranteed. Official transcripts must be submitted if work has been taken at another institution since the student was last enrolled at LSU. The application deadlines for admission also apply for readmission, as do application fees and late fees.

Readmission with a Change of Program

A student wishing to pursue a degree or program other than the one originally sought, and who has not enrolled for three or more semesters (summer term included), must complete application procedures as described above, and comply with the requirements for the new program. Acceptance into one program does not guarantee admission into another. The admission decision ultimately rests with the admission committee of the department or interdepartmental program concerned.

CHANGE IN GRADUATE DEGREE PROGRAM

Students currently enrolled in a degree program who wish to change programs should complete a special form available from the Graduate School at least six weeks before the start of the next semester or summer term. Approval by the appropriate academic unit is required before the change can be made.

FEES • FINANCIAL AID

The Board of Supervisors may modify fees, meal rates, or housing rates at any time and without advance warning. Students should check with the Office of Student Records & Registration, 112 Thomas Boyd Hall, (504) 388-1686, for up-to-date fee information.

The following discussion of fees, required minimum registration, and related matters covers items that apply only to graduate students or for which graduate students and undergraduates are treated differently. For all other fees (vehicle registration, audit fees, student insurance, Student Health Center, etc.) see the section, “University Fees and Expenses.”

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. Consult the previous table for fees and deadlines. The late application fee also applies to applications for readmission submitted after the dates shown. The University is not responsible for cash sent by mail.

International applicants should consult the section, “Admission of International Students,” for additional information.

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<td>Nondegree Applicants</td>
</tr>
<tr>
<td>Summer Term</td>
</tr>
<tr>
<td>U.S. Citizens &amp; Resident Aliens</td>
</tr>
<tr>
<td>Nonimmigrant Applicants</td>
</tr>
<tr>
<td>Nondegree Applicants</td>
</tr>
</tbody>
</table>

*International applications received after the deadline will be processed automatically for the following semester or summer term. There are no late fees associated with the January 25 priority date for full consideration for assistantships and fellowships.
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 during the semester, or following semesters in which working toward a degree. University fee, and nonresident tuition must be paid. For exceptions, see the “Undergraduate Fees and Expenses” section of this catalog.

Three-Week Short Courses

Students enrolled in three-week summer short courses are required to pay the registration fee, nonrefundable, University fee, and nonresident fee (if applicable). With a few exceptions, these fees conform to the summer term fee schedule.

Audit Fees

Fees for auditing courses are in accordance with the "Regular Semester" and "Summer Term" fees above. Maximum fee is $1,199 for the regular semester and $1,041 for the summer term. Fees for students enrolling for combined credit and audit work will be assessed in accordance with total hours scheduled.

Residence 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 resident student is defined as one who has been domiciled in the state of Louisiana for at least one full year (365 days) immediately preceding the first day of classes of the term for which resident classification is sought.

Graduation Fees

- Master's degree fee, $40; thesis binding fee, $20
- Doctoral degree fee, $60; dissertation binding fee, $45.
- 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.
- Binding and Microfilming Fee • A candidate for the master's degree is required to pay a $20 fee to cover the cost of binding the official copies of the thesis. A candidate for the Ph.D. or the D.M.A. degree is required to pay a $35 microfilming fee and a $10 binding fee. The microfilming fee includes microfilming one official copy of the dissertation or monograph by University Microfilms, Ann Arbor, Michigan, and the publication of an abstract in Dissertation Abstracts or Research Abstracts. A multi-volume thesis, dissertation, or monograph requires payment of more than one binding fee.

One copy of the thesis, dissertation, or monograph is retained in the Louisiana Collection in Hill Memorial Library. The second copy is retained in Middleton Library for circulation.

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.

University Fees

Louisiana Residents

Graduate Students • $1,327
Veterinary Medicine Students • $2,239

Nonresidents

Graduate Students • $2,977
Veterinary Medicine Students • $7,114

Included in University fees for full-time students are one subscription to The Daily Reveille, the campus newspaper; one subscription to Legacy Magazine, one class picture to be placed in the yearbook, the Gumbo; when the fees are paid for the full semester; a copy of the Gumbo when the fees are paid for the spring semester; an allocation to Student Government; admission to all athletic events when fees are paid for the spring semester; membership in the LSU Union; and reduced golf green fees at the LSU Golf Course.

In addition, student allocations in the regular semester University fee include a mass transit fee, a student recreational sports complex fee, a fee for "The Phone," a KLSU radio fee, an LSU-TV fee, an organization relief fund fee (research and travel) in both regular semesters, a campus transit fee; a nonrefundable registration fee, and a Student Health Center fee.

Student allocations in the summer term include a nonrefundable registration fee, a Student Health Center fee, a mass transit fee, a student recreational sports complex fee, a fee for "The Phone," a KLSU radio fee, an LSU-TV fee, and a campus transit fee.

For information about room rent, dining plans, funds, and other special fees, see the "Undergraduate Fees and Expenses" section of this catalog.

Social Work Students

An internship fee of $100 per course must be paid by all students enrolled in Social Work 5505, 5506, 7605, and 7606.

Students in Veterinary Medicine

A microscope fee of $40 per semester is assessed each student during Years I and II of the professional curriculum. No fees are assessed regularly admitted students in the summer of Year IV, regardless of the elective blocks taken. Regularly admitted students accepted from contract states pay the same fees as residents of Louisiana, with respective states paying an additional increment as specified by contract.

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, and superior students can expect to receive some type of aid throughout their graduate careers. In some cases, recipients are required to have completed a minimum amount of graduate work prior to receiving an award. All such assistance is awarded on the basis of the individual's academic achievements. Interested students should contact the chair of the department in which they plan to study.

Graduate Fellowships

LSU Graduate School Fellowships are available to students of outstanding achievement who are enrolled in graduate degree programs. Graduate School Fellowships provide annual stipends of $12,500 per year for up to four years. Resident tuition is added to the awards and nonresident fees (if applicable) are waived.

Master's awards are renewable for a second year. Doctoral awards can be renewed for up to four years. Renewal for the fourth year requires fellows to have passed the general examination and to have had their dissertation topics approved by their advisory committees no later than the end of the sixth regular semester (summer terms not included). Some awards are designated for LSU undergraduates entering graduate programs and LSU master's students entering doctoral programs. For application procedures, which entail departmental nomination by February 15, contact the Graduate School.
### REGULAR SEMESTER FEES • GRADUATE STUDENTS

<table>
<thead>
<tr>
<th></th>
<th>Full-Time</th>
<th>Part-Time</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>9 or more hrs.</td>
<td>7-8 hrs.</td>
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<tr>
<td><strong>Resident Students</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Fee</td>
<td>$1,327.00</td>
<td>$860.00</td>
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<tr>
<td><strong>Nonresident Students</strong></td>
<td></td>
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<tr>
<td>University Fee</td>
<td>1,327.00</td>
<td>860.00</td>
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<tr>
<td>Nonresident Fee</td>
<td>1,650.00</td>
<td>1,005.00</td>
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<td><strong>TOTAL</strong></td>
<td>$2,977.00</td>
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### SUMMER SESSION FEES • GRADUATE STUDENTS

<table>
<thead>
<tr>
<th></th>
<th>Full-Time</th>
<th>Part-Time</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>12 or more hrs.</td>
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<tr>
<td><strong>Resident Students</strong></td>
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<td>University Fee</td>
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<td><strong>Nonresident Students</strong></td>
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<tr>
<td>Nonresident Fee</td>
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<td><strong>TOTAL</strong></td>
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<td>$1,674.00</td>
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### REGULAR SEMESTER FEES • VETERINARY MEDICAL STUDENTS

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td><strong>Resident Students</strong></td>
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<tr>
<td>University Fee</td>
<td>$2,239.00</td>
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<tr>
<td><strong>Nonresident Students</strong></td>
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<td>University Fee</td>
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<td>SREB Contract Fee</td>
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<td><strong>TOTAL</strong></td>
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### UNIVERSITY FEES—FULL-TIME STUDENTS

<table>
<thead>
<tr>
<th>STUDENT RECOMMENDED FEES</th>
<th>FALL</th>
<th>SPRING</th>
<th>SUMMER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student Recreational Sports Complex</td>
<td>$30.00</td>
<td>$30.00</td>
<td>$15.00</td>
</tr>
<tr>
<td>&quot;The Phone&quot;</td>
<td>2.00</td>
<td>2.00</td>
<td>1.00</td>
</tr>
<tr>
<td>KLSU Radio</td>
<td>5.00</td>
<td>5.00</td>
<td>3.00</td>
</tr>
<tr>
<td>Mass Transit System</td>
<td>23.00</td>
<td>23.00</td>
<td>10.00</td>
</tr>
<tr>
<td>Organization Relief Fund</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Full-Time Students</td>
<td>0.00</td>
<td>3.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Full-Time Graduate &amp; Veterinary Medicine Students</td>
<td>3.00</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>LSU-TV</td>
<td>2.00</td>
<td>2.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Campus Transit</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Gumbo (Yearbook)</td>
<td>7.00</td>
<td>1.00</td>
<td>0.00</td>
</tr>
<tr>
<td>The Daily Reveille</td>
<td>2.00</td>
<td>2.00</td>
<td>1.00</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
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<td><strong>$69.00</strong></td>
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<tr>
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<td><strong>$50.00</strong></td>
<td><strong>$30.00</strong></td>
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<table>
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<tr>
<th>OTHER ALLOCATED FEES</th>
<th>FALL</th>
<th>SPRING</th>
<th>SUMMER</th>
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<td>$0.75</td>
</tr>
<tr>
<td>Auxiliary Enterprise Maintenance Fund</td>
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<td>3.75</td>
<td>1.85</td>
</tr>
<tr>
<td>Student Services Maintenance Fund</td>
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<td>3.75</td>
<td>1.90</td>
</tr>
<tr>
<td>The Daily Reveille</td>
<td>2.00</td>
<td>2.00</td>
<td>0.75</td>
</tr>
<tr>
<td>Student Media</td>
<td>0.25</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Gumbo (Yearbook)</td>
<td>0.00</td>
<td>5.00</td>
<td>0.00</td>
</tr>
<tr>
<td>LSU Union</td>
<td>12.25</td>
<td>12.50</td>
<td>5.00</td>
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<td>LSU Union Maintenance Fund</td>
<td>7.50</td>
<td>7.50</td>
<td>3.75</td>
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<tr>
<td>LSU Union Enrichment Fund</td>
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<td>Spring Sports</td>
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<tr>
<td>Golf</td>
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<td><strong>SUBTOTAL</strong></td>
<td><strong>$35.75</strong></td>
<td><strong>$46.75</strong></td>
<td><strong>$14.75</strong></td>
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| TOTAL                                            | **$160.75** | **$165.75** | **$76.75** |

<table>
<thead>
<tr>
<th>REGISTRATION FEE (NONREFUNDABLE)</th>
<th>FALL</th>
<th>SPRING</th>
<th>SUMMER</th>
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<tbody>
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<td>$10.00</td>
<td>$10.00</td>
<td>$10.00</td>
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<tr>
<td><strong>TOTAL INCLUDED IN &quot;UNIVERSITY FEES&quot;</strong></td>
<td><strong>$170.75</strong></td>
<td><strong>$175.75</strong></td>
<td><strong>$86.75</strong></td>
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</tbody>
</table>
Graduate School Dissertation Fellowships

Dissertation Fellowships are available to exceptional doctoral students who will begin their final year of study. A one-year stipend of $10,000 is awarded, along with the cost of resident tuition. Nonresident tuition (if applicable) is waived.

Applicants must be able to demonstrate a high probability for completion of the dissertation during the fellowship year. Dissertation Fellowships are available only to full-time students. For information on application procedure, write to the departmental nomination by February 15, contact the Graduate School.

Board of Regents' Graduate Fellowship Program (Ph.D. and M.F.A.)

The Louisiana Educational Quality Support Fund provides Board of Regents' Graduate Fellowships for exceptionally qualified doctoral students. These awards range from $12,000 to $17,500 per year for up to four years. Academic departments eligible for these awards vary from year to year. Most major areas—such as humanities, social sciences, basic sciences, arts, design, education, agriculture, and engineering—are included annually.

Interested students should submit scores on the verbal and quantitative portions of the Graduate Record Examination (or GMAT scores if appropriate), an official transcript of all college work, a one-page narrative of educational goals, and three letters of recommendation. Applications must be submitted through the candidate's department and be received in the Graduate School by February 15.

Graduate School Tuition Awards

The graduate dean can award up to 200 tuition exemptions to graduate students from underrepresented groups. These tuition awards provide for a waiver of both resident and nonresident fees. Preference is given to students from Latin American countries and to African Americans. Students must be admitted to a graduate program at LSU and be nominated by their departments.

Assistantships

More than 1,800 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 are 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 offer without first obtaining formal release from the prior commitment.

A graduate assistantship is intended to be supportive of the student's educational experiences 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 graduate assistantships 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 grade-point average is at least 3.00.

Details and additional information regarding eligibility for a graduate assistantship may be found in PS-21, available in the Graduate School and in departmental offices.

Stipends • Graduate assistant stipend levels vary widely, depending on the department and the assigned duties. Assigned duties may include research, teaching, and/or service. Graduate assistantship appointments may also be for one-third or one-quarter time, with an appropriate adjustment in the stipend. Appointments for more than one-half time require special justification. Although most appointments are made on an academic-year basis, assistantships are available in certain departments during the summer months, with an appropriate adjustment in the stipend.

Federal Work-Study Program

Another form of financial assistance available to graduate students is the federal work-study program. A graduate student who qualifies for this program can be assigned part-time employment in an academic area or in any other University office. The amount of aid available is determined by assessment of the student's needs. Students may also be assigned to nonacademic 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 (FASFA)." This form should be completed and filed as soon 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 & 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 Program (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 $20,000 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 on 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 or 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 Program (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 guaranty agency. Some lenders may require additional endorments. 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 when the loan is 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 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 has the responsibility for handling all applications for benefits under the various public laws. In order 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.
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, "University 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 & PROGRAM CHANGE

Graduate students must assume full responsibility for knowledge of Graduate School policies and departmental requirements concerning their individual degree programs. At times, advances in knowledge and changes in methodology 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. Current regulations and requirements will take precedence over any previously promulgated policies. Between catalog issues, notices of changes will be available in the Graduate School and in each department.

GRADUATE CREDIT

A student may receive graduate credit only for courses taught by members of the graduate faculty or other persons approved in advance by the dean of the Graduate School. Except as noted, a student may receive graduate credit only for work taken while officially enrolled as a graduate student. Any student dropped from a graduate program because of unsatisfactory performance will not be permitted to take courses for credit toward a graduate degree beyond the semester in which the student is dropped. In addition, graduate students may not take credit examinations in graduate-level courses.

Graduate Credit in Law

Students registered in Graduate School may receive graduate credit for certain courses offered by the Hebert Law Center if the courses have been approved in advance by the Law Center and the dean of the Graduate School. Students should submit a written petition to the Graduate School for such approval. They must obtain permission from the vice-chancellor of the Hebert Law Center in order to register for these courses.

Transfer of Credit

A maximum of 12 semester hours of credit earned 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. 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. However, hours transferred may not exceed one-third of the total semester hours of graduate course work (thesis hours excepted) required for the student's degree program (a maximum of nine hours in a master's program requiring 24 hours of course work).

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 academic good standing. Transfer credit from other schools must have been earned for graduate residence course work as a matriculating student. The course work must have been part of an otherwise satisfactory graduate program, judged appropriate to the student's program by the graduate faculty of the major department, taught by a professor whose credentials are comparable to those of the graduate faculty at LSU, and, 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 credit for any nonmatriculating student may be applied toward a master's degree at LSU. Credit 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 is 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 an arbitrary 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 grade-point average of at least 3.00 during the preceding year at LSU, and who has a cumulative grade-point average 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 head of the department in which the student plans to enroll must approve the course work and the hours transferred may not exceed one-third of the total semester hours of graduate course work (thesis hours excepted) required for the student's degree program (a maximum of nine hours in a master's program requiring 24 hours of course work).

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 A student must have earned at least 30 semester hours with a cumulative grade-point average of 3.50 or higher.

7000-level Courses A student must have earned at least 75 semester hours with a cumulative grade-point average 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 doctoral degree, 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 an official letter requesting permission to pursue the degree. The letter must include a request that a committee be convened to approve the degree. The letter must also include an official letter from 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. The policies and procedures of the University governing grade appeals are described in the section concerning University regulations.

- **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 Grade-Point Average.** This average is based only on graduate work graded "A," "B," "C," "D," and "P." If it is known in advance that courses which may be assigned a grade of "F" will be taken, or that the student will have to qualify, for additional work in the Graduate School, a cumulative average of less than 3.00 is acceptable. In extraordinary cases, the dean of the Graduate School may authorize a resignation and/or dropping of a course after the last date specified.

- **Semester Grade-Point Average.** This average is based on graduate and undergraduate work graded "A," "B," "C," "D," and "F." It is computed only for each semester. All work graded "I" or "W" is dropped from the semester average.

**"I" Grade Regulations**

- The "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 previous semester as a ''demonstration of course taken during that semester. It is assumed that 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 graduation. Authorization from the dean of the Graduate School is not required to assign an "I" grade to a graduate student.

- An "I" grade is valid only until the final date for submission of grades at the end of the next regular semester (fall or spring), whether or not the student is enrolled. "I" grades received in the spring semester or the summer term are valid until the end of the fall semester; "I" grades received in the fall semester are valid until the end of the spring semester. There will be no extension of time.

- Responsibility for changing an "I" grade lies both with the student and the faculty member concerned. Failure by the faculty member to submit a "Graduate 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 coordinating the study. If the absence of another faculty member to supervise the unfinished work.

- For a permanent "I" grade to be initiated by the student. The petition must be accompanied by a letter of justification from the faculty member concerned if possible. It must also be endorsed by the chair of the student's department before it is submitted to the dean of the Graduate School.

**"W" Grade Regulations**

The "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.

**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 coursework 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 grade-point average.

For graduate-credit courses, a grade of "P" will be assigned only if the work is of at least "B" quality. A grade of "P" in a pass-fail course will be treated as any other "P." Some departments have designated certain research and seminar courses to be taught on a pass-fail basis. All students enrolled in these courses will be graded in this manner.

**Grade Requirements**

- **Good Standing.** Graduate students are considered to be in good standing, making satisfactory academic progress, if they earn a 3.00 cumulative average on all graduate course work taken within the LSU system and a 3.00 semester average on all course work (undergraduate 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 either graduate course work or total course work is below 3.00 will be placed on probation. In such events, a student whose semester average is below 3.00 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 "W" grade 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" for graduate students. University administration may determine the student's academic status, even if the student changes to a different graduate degree program.

- 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 it is 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 Services has administrative responsibility for coordinating all University disciplinary procedures and practices.

**Graduation.** To receive a graduate degree, students must 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.

**GRADUATE REGISTRATION**

Specific registration dates are announced in the "Academic Calendar" for each semester or summer term. Instruction in the mechanics of registration is 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 and 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 registration 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 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 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 may not register as full-time graduate students. The maximum load permitted will depend on the extent of employment. In no case may the combination of course-load and work-load exceed one and one-half time. 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 may not exceed one and one-half; for example, a full-time employee may register as a half-time student at most (maximum of six semester hours of credit in a regular semester and four semester hours of credit in a summer term).

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 LSU’s telephone registration system (REGGIE). 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. 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. An “Application for Change of Department or Dual Degree” form may be obtained in 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.

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, and in no case later than the date shown in the “Academic Calendar” as the final date for resigning from the University. 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.

The following areas of study are available at LSU to residents of southern states through the Academic Common Market: art, art history, computer science, fisheries, food science, geography, landscape architecture, library science, oceanography and coastal sciences, music (composition, education, history and literature, research and pedagogy), petroleum engineering, plant pathology and crop physiology, poultry science, speech pathology and audiology, speech/theater, and wildlife.

Additional information may be obtained from the Office of Student Records & Registration.

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 Student Records & Registration. 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 Student Records & Registration, 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 such as Heidelberg University in Germany and the University of Exeter in England. Other oppor-
tunities for study abroad are available through other campus offices. For additional information contact the Graduate Dean’s office.

**REQUIREMENTS FOR ADVANCED DEGREES**

**REQUIREMENTS FOR THE MASTER’S DEGREE**

Programs in the humanities and social sciences ordinarily lead to the M.A. degree. Programs in other fields usually lead to the M.S. 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 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 a 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. Students pursuing a 36-hour nonthesis option will have to complete a minimum of 18 hours in courses numbered at or above 7000. 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 minor fields.

A total 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 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 “Application for Admission to Candidacy” 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 Limits**

Programs for master’s degrees must be completed within five years from entrance into a degree program. Credit for individual courses taken at LSU must be earned before the termination of a program may be validated by the student’s graduate committee, usually through an examination. The results of such an examination must be signed by all members of the committee and reported to the Graduate School before the request for the student’s final examination will be approved. For regulations regarding time limits and eligibility of transfer work, see the section “Transfer of Credit.”

**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. It must be acceptable in subject matter and exhibit creditable literary workmanship. At least six semester hours of thesis credit are required for the master’s degree with the thesis option. For additional information concerning thesis preparation, consult the pamphlet, “Guidelines for the Preparation of Theses and Dissertations,” which is available in the Graduate School.

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 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 of this committee. Other committee members may be drawn 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. Any changes in the makeup of this committee must be approved in advance by the dean of the Graduate School. The dean of the Graduate School may serve as a member of any committee or may appoint additional members.

**Nonthesis Programs**

Some departments offer optional nonthesis programs for the master’s degree. Departmental announcements and the Graduate Bulletin indicate whether this option is available.

**Comprehensive Final Examination**

Candidates for master’s degrees in most programs are required to pass a comprehensive final examination. This examination may be oral, written, or both oral and written, depending on the requirements of the department concerned. In nonthesis programs, greater weight is ordinarily given to this examination, and it will probably be broader in scope than the examination given to a student who completes a thesis.

At least three weeks prior to the time this examination is to be given (or by the cumulative 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. 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 graduate dean. 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.

**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 grade-point average of at least 3.50 for all work taken at LSU. To be eligible for this program, transfer students must have a 3.50 average on all undergraduate work taken prior to attending LSU and must complete at least one semester at LSU with a 3.50 gpa. Acceptance into the accelerated program requires approval from the following:

- the chair of the undergraduate department in which the student is enrolled;
- the dean of the college in which the student is enrolled;
- the chair of the department or the coordinator of the interdisciplinary program in which the student proposes to work toward the master’s degree; and
• the dean of the Graduate School.

The requested approvals will be given as signatures on a form designed specifically for this program. It is the responsibility of the chair or coordinator of the graduate program to appoint the student’s graduate faculty advisory committee.

Other admission requirements for graduate study, such as the GRE and the GMAT, will be waived until the student receives the baccalaureate degree and is ready to enter formally into Graduate School. Until that time, admission into the accelerated program will constitute provisional admission into the graduate program. Students will register as graduate students only after receiving the baccalaureate degree and satisfying departmental and Graduate School admission requirements.

Continuing eligibility for the accelerated master’s program will require maintenance of a 3.50 average in all courses that apply to the undergraduate degree and a 3.00 average in all graduate course work.

Degree and Curriculum Requirements • Students who wish to obtain a master’s degree under this program must meet all academic and residence requirements set by the Graduate School and the department concerned. Requirements for the baccalaureate degree will be unaffected.

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 if 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 (Ph.D.) 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 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 twofold:

• A student must exhibit unmistakable evidence of mastery of a broad major field. Such evidence is ordinarily provided by passing a general examination;

• A student must prove ability to complete a significant program of original research by preparing a dissertation embodying cre-ative scholarship and by passing a rigorous final examination. The dissertation must add to the sum of existing knowledge and give evidence of considerable literary skill.

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. Candidates must complete 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", "C", 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, at least one of whom must be a full Member. 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, in addition, the major professor, who acts as chair and who resides from the major department. Doctoral committees must include a minimum of two graduate faculty members from the major department, at least one of whom must be a full Member. The remaining members may be from the major department or may be from other departments 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, if there are not at least two full Members from the major department.

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. Officers of the advisory committee are nominated by the chair of the major department and appointed by the dean of the Graduate School, who may make any 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, possess all the rights and responsibilities of the other committee members. In the case of final examinations, it is the responsibility of the department chair to ensure that the dean’s representatives receive copies of dissertations as soon as possible, and no later than two weeks before the date of the examination.

Full-time Residence Requirement

One full academic year of continuous residence (two consecutive semesters: fall and spring or spring and fall) as a full-time graduate student must be earned at LSU after the “Program of Study” is received by the Graduate School. If the “Program of Study” is received early in a semester (on or before the date specified in the “Academic Calendar”) and the student is enrolled full-time, that semester may be counted as the first of the two consecutive semesters of full-time residence required.

Students who are in residence for the purpose of this requirement are devoting essentially all of their energies to graduate study under the direct supervision of a major professor and an advisory committee.

General Examination

A student becomes eligible to take the general examination after demonstrating to the advisory committee adequate academic and professional aptitudes. There is no Graduate School requirement that doctoral students pass a pre-general examination before becom-
ing eligible to take the general examination. However, since pre-general examination requirements may be retained by individual departments, you should consult with the appropriate departmental office concerning this requirement. Students on probation will not be allowed to take the general examination.

Examinations may not be scheduled between semesters. 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 Program of Study for the Doctoral Degree” form should be completed and submitted to the Graduate School.

The general examination is ordinarily the most rigorous test in the entire doctoral program. In order for the student to pass this examination, there may not be more than one dissenting vote. Dissenting votes, along with assenting votes, must be recorded on the examination cards submitted to the Graduate School. The examination may be oral, written, or oral and written according to the rules of the major department; the minor department (if an outside minor has been declared) retains the right, however, to decide the form of its part of the examination. The examination must be designed to demonstrate expert competence over broad segments of the major field and a high degree of familiarity with the content of and current progress in one or more minor fields, if appropriate. The general examination should be regarded as the culmination of a student’s program in course work. In most cases, the remaining time spent in obtaining the degree is to be devoted to concentrated work on the dissertation and preparation for the final examination. When the general examination is passed, report cards should be completed in duplicate and forwarded to the Graduate School.

Continuous Registration Requirement

Doctoral candidates must maintain continuous registration for a minimum of three semester hours of credit each regular semester (excluding summers) from the completion of the general examination to the end of the semester in which an approved dissertation is submitted to the Graduate School. The dean of the Graduate School may exempt a student from the continuous registration requirement upon departmental certification that the student is in absentia from the University and is not using University resources. Exemptions are intended to accommodate students whose dissertation 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,” which is available in the Graduate School.

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). The 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. 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 in advance of the examination.

Although the final examination is traditionally conducted as an oral test primarily concerned with the dissertation and related problems, 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.

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 by 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 the “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 (D.M.A.) is a professional degree in music. The course work, residence requirements, and examination sequences are similar to those for the Ph.D. degree. Major differences in the two programs are in the dissertation and minor field requirements (if appropriate). For the special admission and course requirements for this degree, consult the School of Music.
FULFILLING DOCTORAL DEGREE REQUIREMENTS

<table>
<thead>
<tr>
<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>
</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>
</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>
</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>
</tr>
</tbody>
</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 D.V.M. program offered through the School of Veterinary Medicine.

Also described are three graduate programs—in environmental studies, in nuclear science, and in oceanography and coastal sciences—not housed in the academic colleges and whose graduate faculites, therefore, are not included among departmental faculty listings in the chapters devoted to the various colleges.

A complete list of degree programs offered through the Graduate School is provided earlier in this chapter. For more detailed descriptions of the various graduate programs, see the Graduate Bulletin.

INSTITUTE FOR ENVIRONMENTAL STUDIES

DIRECTOR • Overton, Professor
OFFICE • 42 Atkinson Hall
TELEPHONE • (504) 388-8521

PROFESSORS • Overton, Porter, Pulsipher, Shane
ASSOCIATE PROFESSORS • Irvin, Templeton
ASSISTANT PROFESSOR • Reams
ADJUNCT FACULTY • Winston

The Institute for Environmental Studies conducts teaching and research in environmental sciences, with participation by the Colleges of Agriculture, Arts & Sciences, Basic Sciences, Business Administration, Design, and Education; the School of Veterinary Medicine; and the Center for Coastal, Energy, & Environmental Resources.

The institute offers a variety of comprehensive undergraduate courses relating to the environment, although a bachelor’s degree is not offered. Institute faculty serve as adjunct faculty in several departments that offer doctoral programs.

The Institute for Library & Information Science provides education for careers in all types of libraries and information centers leading to the master’s degree (M.L.I.S.) and the Certificate of Advanced Study in Library and Information Science (C.L.I.S.). 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 concentrations in the areas of their special interests and abilities, since every field of knowledge is useful in the information professions. Courses in computer science will be helpful. The School of Library & Information Science does not require a foreign language for admission; however, coursework 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 or the Certificate of Advanced Study are enrolled in the Graduate School; therefore, applicants must meet the general Graduate School requirements in addition to School of Library & Information Science requirements. Application forms may be obtained from the office of the dean or from the Office of Undergraduate Admissions. 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 37 semester hours (a maximum of six semester hours of approved graduate-level course work from within the LSU System
may be applied to the 37 semester-hour minimum requirement;  
• successful performance on a written comprehensive final examination;  
• fulfillment of the minimum residence requirement of one regular semester or one summer term as a full-time student at this University;  
• 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 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.

The Certificate of Advanced Study in Library and Information Science is a degree program tailored to the needs of professional librarians who desire formal education to achieve their career goals. Specializations in library automation, academic library administration, youth services, adult literacy, and library collection development will provide in-depth opportunities to individuals already holding the accredited master's degree in library and information science. A minimum of 24 hours of graduate credit is required.

**NUCLEAR SCIENCE CENTER**

**DIRECTOR** • Lambremont, Professor  
**OFFICE** • 127 Nuclear Science Center  
**TELEPHONE** • (504) 388-2163

**PROFESSORS** • Courtney, Lambremont, Williams  
**ASSOCIATE PROFESSORS** • Knaus, Lindau, Scott  
**ASSISTANT PROFESSOR** • Sajo  
**ADJUNCT FACULTY** • Fields, Henkelmann, Hidalgo-Salvatierra, Johnson, Lo, Morel

The Nuclear Science Center, while providing services to the University in radiation consulting, radiation protection, and research facilities, has primary roles in research and academic programs.

Courses in nuclear science are offered in cooperation with several departments of instruction including a nuclear option for the bachelor's degree program in chemistry. The center administers the program leading to the degree of Master of Science with a major in nuclear science and engineering. Concentrations include nuclear engineering, research, radiation protection, and medical radiation science (offered in cooperation with the medical staff of the Mary Bird Perkins Cancer Center). Doctoral candidates in the interdepartmental Programs in Engineering may specialize in nuclear engineering. Graduate students from other disciplines may select a minor program in nuclear science at the master's or Ph.D. level.

In addition to academic and research programs, the center organizes short courses, conferences, and symposia to advise industry and the general public of nuclear applications and developments pertinent to Louisiana and the nation. Faculty and students cooperate with Department of Energy national laboratories as well as with other departments at Laboratories for graduate programs and faculty research are included in the center and in the radiocology field laboratory located south of the main campus on the Ben Hur Farm.

**DEPARTMENT OF OCEANOGRAPHY & COASTAL SCIENCES**

**CHAIR** • LaRocK, Professor  
**OFFICE** • 258 Military Science Building  
**TELEPHONE** • (504) 388-6308  
**FAX** • (504) 388-6307

**BOYD PROFESSORS** • Coleman, Patrick  
**PROFESSOR EMERITUS** • GosseInK  
**PROFESSORS** • Adams, Day, Coleman, Gambrell, Hsu, Huh, LaRocK, Mendelsohn, Meyers, Murray, Patrick, Roberts, Turner, Van LoKip, Williams  
**ASSOCIATE PROFESSORS** • Baltz, Carney, Condey, Inoue, Power, Rouse, Shaw, Wilson  
**ADJUNCT FACULTY** • Bouma, Dortch, McKee, Rabalais

This department offers the Master of Science and the Doctor of Philosophy degrees, and encourages expansion of marine-related instruction in other academic departments. Overall emphasis is given to the fundamental understanding and practical application of knowledge concerning the physical, chemical, biological, geological, meteorological, economic, and legal aspects of those environments usually identified as marine, coastal, or estuarine. The more than 4,700 square miles of freshwater to saltwater marsh and estuary found in Louisiana, comprising the largest river in the United States and the most intensely developed continental shelf, serve as a vast natural laboratory for the department's field research.

Admission to the program in oceanography and coastal sciences requires admission to the Graduate School and a strong bachelor's or graduate degree in an approved field of science or engineering. Complete descriptions of all courses offered by the department are included in this catalog.

**SCHOOL OF SOCIAL WORK**

**DEAN** • Millar, Professor  
**OFFICE** • 311 Long Field House  
**TELEPHONE** • (504) 388-5875  
**FAX** • (504) 388-1357

**PROFESSORS** • Archambeaut, Daste, Kim, Leighninger, Midgley, Millar, Mohan, Parker, Roundtree  
**ASSOCIATE PROFESSORS** • Arrington, Bahlazir, Falout, Gienre, Noble, Perkins, Rose, Simbi  
**ASSISTANT PROFESSOR** • Severson

The School of Social Work, a professional school within the Graduate School, provides two years of social work education leading to the degree of Master of Social Work (M.S.W.). It also provides an undergraduate minor in corrections as well as other undergraduate courses in social work in cooperation with other colleges of the University. The school is a charter member of the Council on Social Work Education and is accredited by its Commission on Accreditation at the master's level. Graduates of the M.S.W. program are eligible for membership in the National Association of Social Workers.

**Master of Social Work**

The program's objectives are to provide advanced educational and professional training in social work that will prepare students for responsible and creative careers; to promote scholarly inquiry into social problems, policies, and programs that will enhance the welfare of the people; and to support social services in the community through faculty participation in professional and community organizations and through research and educational programs.

Admission to the program is granted by the school's faculty on the basis of the applicant's undergraduate record and personal qualifications. 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.

Students who receive a baccalaureate degree in social work in a program accredited by the Council on Social Work Education may be eligible for admission into the advanced instruction phase of the M.S.W. program. Such students are normally exempt from taking the foundation courses. They may, however, be required to complete additional field internship courses or other course work as deemed necessary.

Minimum requirements for the M.S.W. degree are:

• 60 semester hours of credit following the prescribed sequence of course work;
• an overall grade-point average 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 M.S.W. degree must be completed within four years of initial registration.

**Undergraduate Minor in Corrections**

The minor in corrections provides undergraduate students an opportunity to acquire substantive academic concentration in applied correctional policy and practice. Students minoring in corrections must complete a total of 18 hours. All students must complete 12 hours in SW 3007, 4003, 4022, 4080. The remaining six hours may be taken from SW 2000, 3003, 4020, 4080, 4090, 4099.
SCHOOL OF VETERINARY MEDICINE

DEAN • Huxsell, Professor
OFFICE • 1102 Veterinary Medicine Building
TELEPHONE • (504) 346-3151
FAX • (504) 346-5702

ASSOCIATE DEAN FOR CLINICAL AND PUBLIC SERVICES • McBurney, Professor
INTERIM ASSOCIATE DEAN FOR RESEARCH • Haynes
ASSISTANT DEAN FOR STUDENT AND PUBLIC AFFAIRS • Rhoades, Professor

Department of Epidemiology & Community Health
HEAD • Groves, Professor
OFFICE • 3110 Veterinary Medicine Building
TELEPHONE • (504) 346-3335

PROFESSOR EMERITUS • Hagstad
PROFESSORS • Groves, Hugh-Jones, Miller, Rhoades, Shane
ASSOCIATE PROFESSOR • Smith
ASSISTANT PROFESSOR • Scholl
ADJUNCT FACULTY • Hubbert, Lam, McFarland, Truman, Vaughn

Department of Veterinary Anatomy & Cell Biology
HEAD • Wise, Professor
OFFICE • 2506 Veterinary Medicine Building
TELEPHONE • (504) 346-3246

PROFESSOR EMERITUS • Tipton
PROFESSORS • Hillman, Martin, Wise
ASSOCIATE PROFESSORS • Al-Badawi, Danloff, Duffield, Henk, Melrose

Department of Veterinary Clinical Sciences
HEAD • Senior, Professor
OFFICE • 1823 Veterinary Medicine Building
TELEPHONE • (504) 346-3108

PROFESSOR EMERITUS • Carter
PROFESSORS • Beadle, Foul, Glaze, Haynes, Hedlund, Hoskins, J. J. McClure, J. R. McClure, McCurnin, Neer, Senior
ASSOCIATE PROFESSORS • Claxton, Elts, Holmes, Hosgood, Hoyt, Martin, Merchant, Olcott, Paccamonti, Pechman, Taborda
ASSISTANT PROFESSORS • Angel, Burba, Cormic, Davidson, Goodwin, Kerwin, Kirby, Moore, Morris, Partington, Robinson, Seahorn, Smith, Tully, Williams
ADJUNCT FACULTY • Burns, Buzhardt, Greer, Hill, Pine, Wolfeheimer

Department of Veterinary Microbiology & Parasitology
HEAD • Storz, Professor
OFFICE • 3313 Veterinary Medicine Building
TELEPHONE • (504) 346-3312

PROFESSORS EMERITI • Amborski, Besch
BOYD PROFESSOR • Klei

PROFESSORS • Corstvet, Cox, Hidalgo, Huxsell, Klei, Kousoulas, Malone, Stewart, Storz, Thune
ASSOCIATE PROFESSORS • England, Horshou, Todd
ASSISTANT PROFESSORS • Cooper, Godeny, O'Leary
ADJUNCT FACULTY • Adams, Farabaugh, Gillis, Hastings, Holm, Hoskins, Kraftenbuhl, Krootsiki, McClure, Melrose, Nickerson, Senior, Shannon

Department of Veterinary Pathology
HEAD • Taylor, Professor
OFFICE • 2307 Veterinary Medicine Building
TELEPHONE • (504) 346-3227

PROFESSORS • Binin, Cho, Lingard, Snider, Taylor
ASSOCIATE PROFESSORS • Gaunt, Hodgkin
ASSISTANT PROFESSORS • Oller, Paranjpe, Paulsen, VanSteenhouse
ADJUNCT FACULTY • Baskin, Blanchard, Didier, Foll, Hawkins, Krootski, R. McClure, Roberts, Scollard

Department of Veterinary Physiology, Pharmacology, & Toxicology
HEAD • Short, Professor
OFFICE • 2536 Veterinary Medicine Building
TELEPHONE • (504) 346-3202

PROFESSORS EMERITI • Ingraham, Morrisette
PROFESSORS • Barker, Crawford, Jenkins, Means, Short, Strain, Venugopalan
ASSOCIATE PROFESSORS • Kamerling, Kappel, Kleinow, Lee, Nicholson, Swenson, Wolfeheimer
ASSISTANT PROFESSOR • Catallo
ADJUNCT FACULTY • Beadle, Bray, Church, Danloff, Elts, Godke, Hansel, Melrose, Pryor, B. Shane, Ter Haar, Winston

Department of Veterinary Science
HEAD • Enright, Professor
OFFICE • 111 Dalymple Building
TELEPHONE • (504) 388-4194
FAX • (504) 388-4890

PROFESSORS EMERITI • Amborski, Ingraham, Luther, Seger, Springer
BOYD PROFESSOR • Klei
PROFESSORS • Corstvet, Enright, French, Hart, Klei, Thune, Williams
ASSOCIATE PROFESSOR • Todd
ASSISTANT PROFESSOR • Cooper

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 and Puerto Rico. 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; the accreditation was reaffirmed in 1991.

The school offers the professional degree, Doctor of Veterinary Medicine. Interdepartmental Master of Science and Doctor of Philosophy degree programs in veterinary medical sciences are offered through the Graduate School.

THE PROFESSIONAL PROGRAM IN VETERINARY MEDICINE

Admission Requirements

Students contemplating a career in veterinary medicine should acquire a sound foundation in the biological and physical sciences and a general knowledge of the arts and humanities in both high school and college. In addition, they should be motivated by a liking for animals, a sincere desire to serve the public, a propensity for the biological and medical sciences, and a deep interest in promotion of the health of animal and human populations. They must have a high aptitude for scientific study and must possess an excellent moral and ethical character.

Candidates for the Doctor of Veterinary Medicine degree must complete a minimum of six years of college education. This includes two or more years of preveterinary training and four years of professional training. The preveterinary requirements may be completed at LSU or any other accredited college or university offering courses of the quality and content of those prescribed in the LSU General Catalog. (See the section of this catalog titled "College of Agriculture" for the preveterinary medicine curriculum at LSU.)

The minimum requirement of 66 semester hours, including 19 hours of elective courses, must 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 preprofessional courses. A minimum grade-point average of 2.50 ("A" = 4) 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 minimum preprofessional requirements. Credit earned through advanced standing is acceptable, but is not used in the computation of grade-point averages. Evaluation of each applicant's record in the preprofessional program is made in accordance with LSU procedures.

Credit is not granted for College Level Examination Program (CLEP) General Examinations. Granting of credit for CLEP subject
examinations may be considered in those subjects recommended by various departments of the University upon receipt of test scores indicating the student meets the minimum acceptable scores required by those departments.

Admission Procedures

Admission to the School of Veterinary Medicine is granted only for the fall semester of each school year and only on a full-time basis. A prescribed number of student spaces is planned for each class, and a formal application with supporting credentials is required of each applicant.

The Committee on Admissions and Scholastic Standing is responsible for determining the application procedure and for selecting the entering class in the professional curriculum. All preprofessional requirements must be completed by the end of the spring semester before fall matriculation in the School of Veterinary Medicine. Formal applications must be submitted no later than November 1 of the calendar year previous to the year in which admission is sought. Students reapplying must submit a new application for each application period.

Students admitted and enrolled in the school must be capable of meeting satisfactorily all requirements of the curriculum in veterinary medicine. Eligible candidates are interviewed by members of the Committee on Admissions and Scholastic Standing and are carefully selected to ensure that they are properly motivated, competent to undertake the rigorous course of professional study, and capable of meeting the demands of a professional career.

Academic and nonacademic qualifications are considered in the selection process. Selection for admission is based on the sum of two scores: an objective score that comprises 70 percent of the final calculation and a subjective score that comprises the remainder.

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 (gpa) on required courses, the grade-point average on the most recent 45-60 semester hours of course work, and the results of the Medical College Admission Test (MCAT) or the Graduate Record Examination (GRE).

New knowledge, especially in the sciences, is accruing at a rapid rate and records of students who have completed their preprofessional requirements several years prior to application will be carefully scrutinized. 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.

The Medical College Admissions Test (MCAT) and GRE are given only on specific dates throughout the year. In order for the results to reach the committee before the end of the application period, candidates must apply for the test in the spring or summer of the year preceding their application.

The subjective evaluation of applicants is based on nonacademic qualifications considered to be relevant to the determination of the applicant’s prospective performance in the veterinary medical curriculum and the practice of veterinary medicine. Motivation, maturity, attitude, interest, and other characteristics will be evaluated for all qualified candidates along with work experience, familiarity with animals, and reference information submitted in support of the application. These qualities are evaluated by two separate committees.

The first committee reviews the supporting documents (an autobiography, letters of recommendation, transcripts, work experience, and familiarity with animals). The second committee evaluates the individual through a personal interview. These appraisals result in an average subjective score which is added to the objective score to produce the total numerical equivalent of the candidate. Through this process, the professional judgment of several faculty members is included in arriving at a final decision.

Minimum Prerequisites for Admission (66 sem. hrs.)

A minimum of 66 semester hours is required for admission to the professional program. This must include the 47 semester credit hours (minimum mandatory level requirements) listed below. Information regarding equivalency of courses or substitution of higher-level courses is available from the admission office in the School of Veterinary Medicine.

Biological Science, 12 sem. hrs. • Must include at least 8 sem. hrs. (two-semester course sequence with laboratory) in introductory zoology or general biology at a level appropriate for premedical students. Must also include at least 4 sem. hrs. (one-semester course with laboratory) in microbiology. LSU courses—BIOL 1201, 1208; ZOOL 1202, 1209; EMBR 2060.

Inorganic Chemistry, 8 sem. hrs. • Must include laboratory and must be at a level for science or engineering majors. LSU courses—CHEM 1201, 1202, 1212.

Organic Chemistry, 3 sem. hrs. • Must cover aliphatic and aromatic compounds, with an emphasis on the biological aspects of organic chemistry. LSU course—CHEM 2060. A biochemistry or organic chemistry laboratory is required. Either LSU course, BCH 2084 or CHEM 2364, may be used.

Biochemistry, 3 sem. hrs. • Must include 3 sem. hrs. of basic concepts and an introduction to the nature and physiological uses of natural substances. LSU course—BCH 2083.

Mathematics, 5 sem. hrs. • Must be at the college algebra/trigonometry level or higher. LSU courses—MATH 1020/1021, 1022. Students who qualify for more advanced math may substitute MATH 1023 (5 sem. hrs.) for 1020/1021 and 1022.

Physics, 6 sem. hrs. • Must be at a level for science majors and must include mechanics, heat, sound, light, electricity, magnetism, and topics in modern physics. LSU courses—PHYS 2010, 2011.

Communication Skills, 9 sem. hrs. • Must include 6 sem. hrs. of English composition and 3 sem. hrs. of speech communication. LSU courses—ENGL 1001, 1002 and SPCM 2010 or 2060.

In selecting the remaining required courses for admission to the professional program, applicants should consider the following:

• The objective of the D.V.M. 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. Such students are encouraged to take higher-level university courses when so permitted. Applicants who are inadequately prepared may find it advantageous to complete the preprofessional requirements over a longer period.

• Although the primary objective of the applicant may be to complete the preprofessional requirements, those who have not previously obtained a baccalaureate degree are encouraged to plan for alternative career possibilities through 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 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 semesters of the professional program.

• Since applicants must take the MCAT or GRE in the fall preceding application or earlier, those students following a four-semester program must complete this test only four weeks after beginning the sophomore year. Appropriate preparation and the selection of a curriculum that contributes to an acceptable score are strongly suggested.

Students who are enrolled at accredited institutions other than LSU must determine that courses taken conform in content and quality to descriptions contained in the latest issue of the LSU General Catalog, which can be obtained upon request from the LSU Office of Student Records & Registration ($3 per copy).
All requirements must be completed by the end of the spring semester of the year in which admission is sought. The MCAT or GRE must be completed by October preceding the year in which admission is sought. Applicants who have not taken the MCAT or GRE by the October preceding the application date will not be granted an interview or considered for acceptance.

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 interdepartmental program in veterinary medical sciences provides graduate academic training in veterinary medicine. It includes intensive research training in various options. Most students engaged in advanced studies in veterinary medicine will have received the D.V.M. 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 EXECUTIVE VICE-CHANCELLOR

EXECUTIVE VICE-CHANCELLOR • Coleman OFFICE • 155 Thomas Boyd Hall TELEPHONE • (504) 388-4028

OFFICE OF COMPUTING SERVICES

EXECUTIVE DIRECTOR • Hay OFFICE • 30 Middleton Library TELEPHONE • (504) 388-3700 FAX • (504) 388-3709

Administrative Information Systems

DIRECTOR • Hadden OFFICE • 30 Middleton Library TELEPHONE • (504) 388-3700 FAX • (504) 388-3709

Administrative Information Systems (AIS) develops comprehensive management information systems for the University. AIS has developed and installed more than 50 major database systems, including telephone registration (REGGIE), degree audit, admissions, payroll, accounting, and financial aid systems. The department employs a variety of technology and supports three different database environments—CICS, IMS, and DB2.

Information Technology Support

DIRECTOR • Icaza OFFICE • 30 Middleton Library TELEPHONE • (504) 388-3700 FAX • (504) 388-3709

The Office of Information Technology Support (ITS) provides assistance to end users of technology and extends the applications of computer and telecommunication technology to new users on campus. The office staff provides specialized consulting services, formal training classes, access to training materials, and other support services, including advice on hardware and software options, existing campus services, technology standards, and campus-wide license agreements.

The staff also maintains the User Help Desk; keeps records to aid in resolving recurring operational problems; works closely with other technology groups to minimize disruptions caused by the introduction of new technology; and acts as liaison between the University and technology vendors to better predict the impact of evolving technologies on research, instruction, and administration.

System Network Computer Center

DIRECTOR • Bayer OFFICE • 232 Computer Center Building TELEPHONE • (504) 388-1331 FAX • (504) 388-1976

LSU maintains one of the largest computing facilities in the country. The System Network Computer Center (SNCC) provides computing resources and services (24 hours per day) in support of instruction, research, and administrative data processing. Current resources include an IBM 3090-600J mainframe processor with six internal vector processors supporting MVS/ESA (TSO) and VM/CMS supervisory software; DEC VAX 7000-610 with a cluster of 50 workstations; and a cluster of IBM RS/6000 RISC processors supporting UNIX. These resources are integrated with the campus-wide, fiber optic backbone and are connected to the INTERNET, BITNET, and state networks. Extensive software is also maintained.

Office of Telecommunications

DIRECTOR • Dodson OFFICE • 203 David Boyd Hall TELEPHONE • (504) 388-5285 FAX • (504) 388-6400

The LSU Office of Telecommunications maintains the campus telephone system and installs network facilities for the distribution of voice, data, and video services on campus. Fiber optic networks provide the campus community with high-speed communications, TELEX, cablegram, and FAX services.

OFFICE OF ACADEMIC AFFAIRS

VICE-CHAIRMAN AND PROVOST • Jenkins OFFICE • 146 Thomas Boyd Hall TELEPHONE • (504) 388-8863 FAX • (504) 388-5980

DIVISION OF INSTRUCTIONAL SUPPORT & DEVELOPMENT

DIRECTOR • Rankin OFFICE • 118 Himes Hall TELEPHONE • (504) 388-1135 FAX • (504) 388-5789

The Division of Instructional Support & Development (DISD) provides resources and services to improve instruction through the Center for Faculty Development (CFD), the Center for Instructional Technology (CIT), and the Measurement & Evaluation Center (MEC). Such assistance to the faculty is considered essential to the University’s mission to provide excellence in instruction.

The Center for Faculty Development assists faculty and graduate teaching assistants in improving instructional techniques. To accomplish this goal, the center:

• provides seminars on innovative teaching and other subjects related to faculty development;
• publishes “For Faculty…,” a newsletter addressing faculty development issues;
• provides individual consultations about teaching;
• conducts orientation and awards programs for faculty; and
The University Libraries offer students and faculty strong support for instruction and research through collections containing more than 2.7 million volumes, microform holdings of more than 4 million, and a manuscript collection of more than 11 million items.

A campus-wide computer network allows access to the Library catalog (LOLA) from residence halls, classrooms, and laboratories. LSU is part of the Louisiana Online University Information System (LOUIS). Library catalogs of many universities in the state are accessible online from the same terminals through which patrons access LOLA.

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 University Libraries belong to the prestigious Association of Research Libraries, which includes the top 108 academic libraries in the U.S., the Association of Southeastern Research Libraries, the Southeastern Library Network, the Research Libraries Group, the Library Information Network Consortium, and the Coalition for Networked Information.

Middleton Library serves as the main library, with special collections housed in the adjacent Hill Memorial Library. Materials in the fields of chemistry, biochemistry, and chemical engineering are located in the Chemistry Library, Williams Hall. The CEBAL Reading Room, 2301 CEBAL Building, contains reserve materials for business and engineering courses. The Library & Information Science Library is located in Coates Hall, and the Design Resource Center is located in the Design Building.

The open-shelf arrangement of the main collection in Middleton Library makes material completely accessible; assistance is offered through Reference Services on the first floor of Middleton and the serials desk on the second floor. Information regarding library services, such as the computerized literature search service and bibliographic instruction, may be obtained from the Reference Desk.

A number of electronic databases can be accessed through a Local Area Network in Middleton Library. Additional databases are on stand-alone workstations. Terminals are also available through which other information sources can be accessed via the INTERNET.

Other features of Middleton Library are listening rooms with an extensive collection of recordings and a microforms area with more than one million microforms. A copier service and 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 loan.

LSU Libraries' U.S. Depository Library collection, the United Nations documents collection, the U.S. Patent Depository Library collection, and the Nuclear Regulatory Commission Public Documents Reading Room collection are housed in Middleton Library. The Library has been a depository for publications of the federal government since 1907, and now 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 U.N. 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 & Space Administration, and the National Technical Information Service.

The Troy H. Middleton Collection of Memorabilia, located in the basement of Middleton Library, includes items depicting Middleton's life from boyhood through his retirement in 1962 as president of LSU. A book collection on military history and strategy is also contained within this special room.

The LSU Libraries' Special Collections in the Hill Memorial Library provide a center for research in the humanities, social sciences, and fine arts. It houses, preserves, and serves special and/or unique materials requiring special handling or protection, and materials dealing with specific subject areas. These materials are serviced in two separate departments, the Louisiana and Lower Mississippi Valley Collections and the Rare Book Collections.

The Louisiana and Lower Mississippi Valley Collection, an outstanding research and reference collection, consists of materials documenting the history and culture of the region. It is an integrated collection, featuring both journals, maps, prints, photographs, and manuscripts. It provides rare and early imprints pertaining to the exploration and colonization of the region, books on Louisiana subjects by Louisiana authors, Louisiana state and municipal documents, and a vertical file on numerous Louisiana topics.

The Louisiana and Lower Mississippi Valley Collection also contains the extensive and prestigious manuscript collections of the LSU Libraries, which include the personal and private papers of important individuals in the history of the region, including the Long family, as well as extensive records of business, professions and organizations; extensive photograph collection; and the official records of the University preserved in the University Archives. The Louisiana and Lower Mississippi Valley Collection constitutes an important resource for research in political and social history, cultural geography, agriculture, education, American French literature, speech, sociology, music, and other fields in the humanities and social sciences.

The Rare Book Collections consist of materials that are generally rare, expensive, or otherwise in need of special handling or protection. The collections of the LSU Libraries, including framed prints, sculptures, and original oil paintings, are maintained and serviced as part of the Rare Book Collections. Among these special collections are:

- The Rare Book Collection, with special strengths in book arts and the history of the book, including the Bruce Rogers Collection, and books on the subjects of New World exploration and travel.
- The E. A. McIlhenny Collection of natural history, a collection of rare old books, maps, prints, photographs, and other materials requiring special handling or protection, and materials dealing with specific subject areas. These materials are serviced in two separate departments, the Louisiana and Lower Mississippi Valley Collections and the Rare Book Collections.
- The Judge Warren L. Jones Lincoln Collection focuses on the life and times of Abraham Lincoln. This collection of approximately 5,000 items includes all of
the great Lincoln books and pamphlets, special editions of some of the outstanding works, and many publications contemporaneous with Lincoln's own lifetime.

- The Oliver P. Carriere Collection of Poker and Hoyle is an extensive collection of the works of Edmund P. Hoyle, as well as one of the most comprehensive collections of works relating to poker.
- The Gladney Chess Collection consists of rare material relating to the game of chess.
- The Rendell Rhodes Crawfish Collection contains four centuries of scientific literature on the taxonomy and culture of the crawfish.

Hill Memorial Library also houses the LSU Libraries' Microfilming and Photographic Preservation Department. For more than 40 years, the department has preserved most of the newspapers published in the state. The department is also responsible for carrying out the preservation of the extensive photographic collections of the Louisiana and Lower Mississippi Valley Collections and for general conservation work in all areas of Special Collections. In addition, the department produces photocopies, photographs, and microfilm of materials to serve the needs of researchers and other institutions.

T. Harry Williams Center for Oral History

DIRECTOR • Dean
OFFICE • Hill Memorial Library
TELEPHONE • (504) 888-6577

The T. Harry Williams Center for Oral History was established in 1991 as an independent, 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. Topics documented in the center's interviews include the history of LSU, of primary and secondary education in Louisiana, of civil rights activism in Baton Rouge, and of several Louisiana communities.

In addition to conducting and collecting interviews, the Williams Center is a campus-wide resource for the support of faculty and graduate student research, and graduate and undergraduate teaching. The staff offers workshops and classes on oral history methodology that are open to the public as well as the University community. The center also provides technical consultation for family and local history projects. Tapes and transcripts generated by the program and its affiliated researchers are deposited in the Louisiana and Lower Mississippi Valley Collections in Hill Memorial Library, where the center is located.

LSU PRESS

DIRECTOR • Phillaubam
OFFICE • 205 French House
TELEPHONE • (504) 888-6294
FAX • (504) 888-6481

Founded in 1935, LSU Press is one of the oldest and largest presses of its kind in the South and one of the outstanding scholarly publishers in the country. Like other university presses, it exists primarily to publish works of scholarship, and its purposes are, therefore, essentially academic.

The LSU Press publishes 60 to 70 books each year. The final decision to publish a manuscript rests with the Faculty Senate University Press Committee, composed of eight faculty members. Over the years, the books that the Press has published have won many important awards, including Pulitzer prizes in fiction and poetry. It has especially earned an outstanding reputation in the fields of southern literature, biography, and history.

THE SOUTHERN REVIEW

CO-EDITOR • Olney
CO-EDITOR • Smith
OFFICE • 43 Allen Hall
TELEPHONE • (504) 388-5108
FAX • (504) 388-5998

The Southern Review, now in its second series, is an internationally known literary magazine under the editorship of Professors James Olney and Dave Smith, with Lewis P. Simpson and Donald E. Stanford serving as consulting editors.

Founded in 1935 by Cleath Brooks, Robert Penn Warren, Albert Erskine, and Charles Pipkin, The Southern Review publishes poetry, fiction, book reviews, and critical articles with emphasis on modern literature and the literature and culture of the South. Issues appear in January, April, July, and October. Subscriptions are $20 a year for individuals and $40 a year for institutions. Manuscripts and subscription orders should be addressed to The Southern Review, 43 Allen Hall, LSU, Baton Rouge, LA 70803-5005.

COLLEGE OF ARTS & SCIENCES

DEAN • Roider
OFFICE • 260 Allen Hall
TELEPHONE • (504) 388-3141
FAX • (504) 388-6447

Center for French & Francophone Studies

ASSOCIATE DIRECTOR • Wing
OFFICE • 225 Prescott Hall
TELEPHONE • (504) 388-6589
FAX • (504) 388-6628

The Center for French & Francophone Studies develops and encourages graduate-level research in French and Francophone literatures, cultures, and language. It provides facilities and opportunities for LSU and visiting faculty as well as for student researchers. The center is involved with all French and Francophone activities at the University and with state and national organizations. Open to faculty and students, a library of French and Francophone literature and reference materials is also housed in the center.

Center for Geopolitical Studies

DIRECTOR • Friedman
CO-DIRECTOR • Hochberg
OFFICE • 35 Center for Geopolitical Studies
TELEPHONE • (504) 388-6339

The Center for Geopolitical Studies (CGPS), established in August 1994, provides a focal point where students of geopolitical studies from a wide variety of disciplines and from many cultures can come together to develop the technologies that serious geopolitical studies require, to meet and debate on their diverse interests, and to engage in research and publish their findings.

The center is currently engaged in three research projects—the Nation-State Project, the Corporate Geography Project, and the Military Mapping and Modeling Project. the first is concerned with the political, historical, and geographic dimensions of subnational, ethnic conflicts; the second with the geographic relationship of the modern corporation to the international system; and the third with the development of computer-based models of military analysis. The CGPS seeks to create an atmosphere of free discussion and rigor that will permit the three parts of the international system—political, economic, and military—to be fully analyzed using geographic information system technology.

Grants in support of the center's research projects have been awarded from private foundations and corporations. Administratively, the center is housed in the College of Arts & Sciences.

Louisiana Population Data Center

DIRECTOR • Deseran
OFFICE • 126 Stubbs Hall
TELEPHONE • (504) 388-1113
FAX • (504) 388-5702

The Louisiana Population Data Center was established at LSU in 1987 to provide technical support for nationally competitive research proposals in the social sciences. The center has moved to national prominence through its service and research on critical social problems. Because it is self-supporting, research contracts and awards with national and local agencies have been an important component of center activities.

The center's data archive houses more than 3,000 files of census and other social science data. Support services include: a survey laboratory with a computer-aided telephone interviewing (CATI) facility; a Geographic Information System (GIS) laboratory for mapping of census and other demographic data; INTERNET, GOPHER, and FTP services; and a technical library. The library houses documentation for data sets, census materials, technical reference materials, and selected publications.

The center also is the organizational representative for the Inter-University Consortium for Political and Social Research (ICPSR) and the academic coordinating agency in Louisiana for the State Data Center (SDC) program of the Bureau of the Census.

Administratively, the center is housed in the Department of Sociology, although it supports faculty from several disciplines. Policy is set by an Executive Committee, the members of which are appointed by the department chair in consultation with the center's director. Funded research is administered through the Office of the Vice-Chancellor for Research & Economic Development.
Southern Regional Climate Center

DIRECTOR • Muller
OFFICE • 260 Howe-Russell Geoscience Complex
TELEPHONE • (504) 388-5021

The Southern Regional Climate Center (SRCC), one of six federally funded climate centers, provides climate data services for Arkansas, Louisiana, Mississippi, Oklahoma, Tennessee, and Texas. Housed in the Department of Geography & Anthropology, the SRCC reports directly within NOAA (U.S. Department of Commerce) to the Climate Analysis Center (CAC) of the National Weather Service (NWS).

The SRCC receives a wide array of NWS data via satellite link. These data are merged and archived with historical climate data for the six-state region within the center’s SUN computer system. In addition to maintaining a substantial climate database, the SRCC staff monitors the status of regional climate. Associated faculty, staff, and graduate students perform applied and basic research in a variety of climate-related topics, including rainfall frequency analysis, regional flooding, climatic impacts on agricultural and environmental concerns, and numerous issues involving climate change.

Louisiana Office of State Climatology

DIRECTOR • Grymes
OFFICE • 254 Howe-Russell Geoscience Complex
TELEPHONE • (504) 388-6870

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 for Louisiana and is supported in this activity by the National Climate Data Center. Located within the Department of Geography & Anthropology, the LOSC is closedly linked to the department’s Southern Regional Climate Center and shares the SRCC’s data and computer resources.

The United States Civil War Center

DIRECTOR • Madden
OFFICE • U.S. Civil War Center (Agnes Morris House)
TELEPHONE • (504) 388-3156 or 388-3151
FAX • (504) 388-8476 or 388-6447

Established in 1992, the United States Civil War Center is still in the developmental stage. In its mission, it is unique and all-inclusive: it is the only center for Civil War interests in the U.S., and it facilitates study of the war through the perspective of all disciplines, professions, and occupations. The center conducts conferences, conventions, and exhibitions; it also publishes a magazine and a series of books.

The center is not a museum. Its heart and brain are a database that will eventually include entries on all Civil War materials in the U.S.: manuscripts, books and other printed materials, sheet music, photographs, and art work. Manuscripts and other materials donated to the center are deposited in the Louisiana and Lower Mississippi Valley Collection in Hill Memorial Library where the database is being developed.

Eric Voegelin Institute for American Renaissance Studies

DIRECTOR • Sandoz
OFFICE • 240 Stubbs Hall
TELEPHONE • (504) 388-2552 or 388-3288
FAX • (504) 388-2540

The Eric Voegelin Institute for American Renaissance Studies, a humanities-social science 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 (1942-58) 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 civilization 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 (especially in Central Europe) in the fields of constitutionalism, individual liberty, and political philosophy; and
- publications (books and monographs) in these same interest areas.


COLLEGE OF BASIC SCIENCES

DEAN • Rabideau
OFFICE • 338 Choppin Hall
TELEPHONE • (504) 388-4200
FAX • (504) 388-9826

Biodynamics Institute

DIRECTOR • Pryor
OFFICE • 711 Choppin Hall
TELEPHONE • (504) 388-2063
FAX • (504) 388-4936

The Biodynamics Institute was established to encourage research on free radical chemistry, oxidative transformations, and free radical biology. These interdisciplinair areas extend into chemistry, biochemistry, enzymology, nutrition, virology, and toxicology. Oxidative reactions are involved in heart disease, cancer, emphysema, and other chronic, life-shortening diseases. Furthermore, many toxins (such as smog) and industrial chemicals (such as chlorinated hydrocarbons) put oxidative stress on plants and animals. Because Louisiana has pollution problems and some areas have cancer rates far above the national averages, the toxicological studies of this institute are especially relevant to our state.

Oxidative reactions, which often involve free radicals, appear to be involved in the human aging process. Micronutrients that protect against oxidative stress, such as vitamin E, are free-radical scavengers. Antioxidants (vitamins E and C and β-carotene) appear to protect humans against heart disease, cancer, cataracts, and several other chronic life-threatening diseases.

Faculty members in the institute have joint appointments in other departments, and the institute actively encourages joint research programs with other departments such as Chemistry, Biochemistry, Microbiology, the Institute for Environmental Studies, and the School of Veterinary Medicine.

Institute for Mutagenesis

DIRECTOR • Lee
OFFICE • 276 Life Sciences Building
TELEPHONE • (504) 388-1754
FAX • (504) 388-1763

The Institute for Mutagenesis is an interdisciplinary research unit organized to encourage investigation of the mechanisms by which DNA is altered by mutation to change inheritance. Natural and synthetic agents in the environment may react with DNA to induce mutations by altering genetic information. When a mutagenic agent reacts with DNA in reproductive cells, the resulting mutation may be transferred to successive generations, resulting in defects that may be expressed at any time from birth to death. Many mutations in humans are known to cause birth defects, whereas others affect the aging process.

The institute’s objective is to understand the mechanisms by which mutations occur and to develop methods for quantitatively estimating the genetic risk to future generations posed by mutagens in the environment.

The institute is supported by federal and private funds and encourages joint research with departments in both the life and physical sciences.

COLLEGE OF BUSINESS ADMINISTRATION

INTERIM DEAN • Glascock
OFFICE • 3304 CBEA Building
TELEPHONE • (504) 388-3211
FAX • (504) 388-5256

Louisiana Business & Technology Center

DIRECTOR • D’Agostino
OFFICE • South Stadium Drive
TELEPHONE • (504) 334-5555
FAX • (504) 388-3975

The Louisiana Business & Technology Center (LBTC), created in 1988 as a joint venture of the University, the Greater Baton Rouge Chamber of Commerce, and the Louisiana Public Facilities Authority, is now part of the College of Business Administration. 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;
- adequate capital.
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 within its 25,000 square foot building (incubator) on South Stadium Drive. 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. LBTC provides additional services to businesses through its Management Assistance Office; its Entrepreneurship Institute; its Technology Transfer Office at NASA's Stennis Space Center in Bay St. Louis, Mississippi, and its linkage to the Southern Technology Applications Center. Also, financial consultants provided by the Louisiana Public Facilities Authority offer excellent resources to LBTC's clients.

Entrepreneurship Institute

The LBTC's Entrepreneurship Institute serves small and new businesses in three areas: education, research, and outreach. Job creation and economic development are the main goals of the institute.

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 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;
- To provide access for state agencies, local government, and Louisiana businesses to conduct research and develop technologies.

Public Management Program

Through its comprehensive program of training, services, and research, the Public Management Program provides state and local governments with the expertise necessary to solve governmental problems. Services range from seminars and in-service training programs to research consultation and research on specific problems. This unit also develops and publishes manuals on various governmental procedures, such as personnel administration, management, organizational development, and job evaluation and pay. These services are provided statewide by the Public Management Program staff and University professors.

This unit has been designated as the sponsoring agency for a training and educational program authorized by the 1979 Louisiana Legislature. The Comprehensive Public Training Program is designed to increase the skills and knowledge of all state employees and nonselected officials. The Certified Public Manager Program (CPM), a nationally recognized and accredited certification program, is open to persons holding a management position in state government or nominated by their supervisors for promotion to such a position. The CPM curriculum includes 216 instructional hours in management and 60 hours in elective courses. On completion of the program, students are awarded the Certificate in Supervisory Techniques (CST) and the Certified Public Manager (CPM) designations.

Louisiana Real Estate Research Institute

DIRECTOR - GlascocK
OFFICE - 2164 CEBA Building
TELEPHONE - (504) 388-6258
FAX - (504) 388-6366

The Louisiana Real Estate Research Institute was established in 1985 with funding from the College of Business Administration 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 more than 185 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 undergraduate and graduate students.

The institute's work is closely supported by the Louisiana Real Estate Commission Endowed Chair of Real Estate, the Latter and 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 College of Business Administration, the Commercial Investment Division of the Baton Rouge Board of Realtors, and various local and state private corporations. Funding is typically provided on a project basis to researchers throughout the state.

COLLEGE OF DESIGN

DEAN • Carpenter
OFFICE • 102 New Design Building
TELEPHONE • (504) 388-5400
FAX • (504) 388-5040

Computer-Aided Design & Geographic Information Systems Research Laboratory

DIRECTOR • Haynes
OFFICE • 216 New Design Building
TELEPHONE • (504) 388-6134
FAX • (504) 388-5890

The Computer-Aided Design & Geographic Information Systems Research Laboratory (CADGIS) is dedicated to education and research in computer-aided design, geographic information systems, remote sensing, image processing, and other computer applications in the areas of art, architecture, design, geography and anthropology, interior design, and landscape architecture. This multidisciplinary laboratory, operated jointly by the College of Design and the Department of Geography & Anthropology, provides specialized support to academic and research units at LSU, to state and federal agencies, and to private organizations.

Projects conducted by the laboratory have included land-use planning, resource analysis, computer mapping, digital terrain modeling, three-dimensional architectural modeling, and graphic displays of scientific data.

The CADGIS Laboratory has three Intergraph System workstations with associated peripheral equipment, such as plotters, printers, scanners, and digitizers. The laboratory also has terminals providing access to the University's mainframe computer, as well as to two well-equipped microcomputer laboratories. A wide range of software is available, including digital terrain modeling, facilities management, world mapping, image processing, and several graphic design programs.

COLLEGE OF EDUCATION

DEAN • Pierce
OFFICE • 221 Peabody Hall
TELEPHONE • (504) 388-1258
FAX • (504) 388-2257

Louisiana Education Policy Research Center

DIRECTOR • Frantz
OFFICE • 121 Peabody Hall
TELEPHONE • (504) 388-2892

The Louisiana Education Policy Research Center (LEPRC) promotes more effective public policy decisions regarding elementary and secondary education. It assists policy makers to acquire knowledge about major educational issues to improve decision making. The center draws upon a variety of resources in responding to policy-related needs, including expertise of the College of Education, other University departments, and other state universities.

Projects undertaken by the center include analysis and effect of various policy options, provision of background information...
on policy issues, and orientation of state and local government to increase their capacity to respond to major educational challenges.

**Center for Scientific & Mathematical Literacy**

**DIRECTOR** • Pirkle  
OFFICE • 107 Peabody Hall  
TELEPHONE • (504) 388-6001  
FAX • (504) 388-4522

The Center for Scientific & Mathematical Literacy was established in 1992 to improve the learning and teaching of mathematics and science in schools, colleges, and universities throughout the state and nation. The center encourages research and development in the teaching of science and mathematics and facilitates the efforts of University faculty toward this end. Research is promoted in the areas of basic scientific/mathematical learning, establishment of innovative curricula, preservice and in-service teacher education, and alternative means of assessing scientific and mathematical knowledge.

Associates of the center are from LSU, other schools, colleges, and universities, and from scientific and governmental organizations and agencies. The center encourages interdepartmental programs and provides a forum for debate and a locus for planning.

**COLLEGE OF ENGINEERING**

**DEAN** • McLaughlin  
OFFICE • 3304 CEBA Building  
TELEPHONE • (504) 388-5731  
FAX • (504) 334-1559

**Hazardous Waste Research Center**

**DIRECTOR** • Constant  
OFFICE • 3418 CEBA Building  
TELEPHONE • (504) 388-6770  
FAX • (504) 388-5043

The Hazardous Waste Research Center supports research that focuses on waste site remediation through interaction with a local Superfund site. In addition, basic research on hazardous wastes and the problems associated with their treatment and disposal is funded through industrial and government grants, including participation in a nine-university consortium of Gulf Coast institutions. Projects are often interdisciplinary, incorporating faculty and facilities campus-wide.

**Hazardous Substance Research Center**

**DIRECTOR** • Thibodeaux  
OFFICE • 3418 CEBA Building  
TELEPHONE • (504) 388-6770  
FAX • (504) 388-5043

The Hazardous Substance Research Center/South and Southwest (HSRC) is a three-institution consortium consisting of LSU, as the lead institution, Georgia Institute of Technology, and Rice University. The consortium addresses critical hazardous substance problems in EPA regions IV and VI. These investigations focus on the following two categories:

- management of hazardous substances in contaminated sediments and dredged material; and
- hazardous substances problems unique to the states within EPA regions IV and VI.

**Louisiana Transportation Research Center**

**DIRECTOR** • Baker  
OFFICE • LTRC Building, 4101 Gourrier Ave.  
TELEPHONE • (504) 767-9131  
FAX • (504) 767-8108

The Louisiana Transportation Research Center (LTRC) is a cooperative research and technology transfer center jointly administered by LSU and the Louisiana Department of Transportation and 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 programs in transportation systems resulting in the implementation of more efficient design, planning, maintenance, operation, and construction practices, as well as improved safety.

LTRC offers courses, seminars, and training sessions designed to enhance the professional capabilities of DOTD engineers and other personnel in the transportation field. LTRC also publishes reports, brochures, and training materials. These publications are available to students in appropriate disciplines.

This technology transfer program is part of a national network dispersing the latest in transportation practices to local governing bodies by means of publications, seminars, and workshops.

**Louisiana Water Resources Research Institute**

**DIRECTOR** • Constant  
OFFICE • 3418 CEBA Building  
TELEPHONE • (504) 388-8508  
FAX • (504) 388-5043

The Louisiana Water Resources Research Institute funds research concerned with water resources problems and the enhancement of Louisiana's water resources, while simultaneously training engineers and scientists to address future problems.

Although the institute is 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). The current research focus on nonpoint source pollution issues reflects input from the fields of agriculture, basic sciences, and engineering, as well as the business and health fields.

**Institute for Recyclable Materials**

**DIRECTOR** • Seals  
OFFICE • 1419 CEBA Building  
TELEPHONE • (504) 388-8650  
FAX • (504) 388-4945

Established January 1990 through a cooperative agreement between Freeport-McMoRan, Inc., and LSU, the Institute for Recyclable Materials (IRM) develops and conducts research and technology transfer programs related to the prevention, minimization, and recycling of industrial residuals and municipal solid waste. Target areas include a municipal/industrial recyclables GIS database, integrated municipal solid waste management systems, construction uses for industrial residuals, pollution prevention, plastics recycling, and nonstandard natural materials. These programs encompass technical, economical, environmental, legal, and regulatory considerations.

In addition to those undertaken by IRM staff, projects also are conducted by faculty members across campus. The institute initiated and operates the Transcontinental Materials Exchange and the Louisiana Industrial Residuals Utilization Consortium. A distinguished group of representatives from the private, public, and industrial sectors serves as the institute's Board of Advisers.

**Remote Sensing & Image Processing Laboratory**

**DIRECTOR** • Maser  
OFFICE • 3221 CEBA Building  
TELEPHONE • (504) 388-4676  
FAX • (504) 388-5263

The Remote Sensing & Image Processing Laboratory (RSIP) is an interdisciplinary organization that performs basic and applied research in remote sensing, geographic information systems, and image analysis. RSIP maintains a wide variety of equipment and software for use in remote sensing and image processing. Research interests at RSIP include third-world agricultural management, coastal zone studies, hazardous waste monitoring, land-use mapping, water quality and quantity studies, soil erosion monitoring, pattern recognition and feature extraction, expert systems, and computer vision.

**OFFICE OF RESEARCH & ECONOMIC DEVELOPMENT**

**VICE-CHANCELLOR** • Eaton  
OFFICE • 240 Thomas Boyd Hall  
TELEPHONE • (504) 388-5833  
FAX • (504) 388-5833

**J. BENNETT JOHNSTON, SR., CENTER FOR ADVANCED MICROSTRUCTURES AND DEVICES (CAMD)**

**DIRECTOR** • Saile  
OFFICE • 3890 West Lakeshore Drive  
TELEPHONE • (504) 388-8887  
FAX • (504) 388-6954

The J. Bennett Johnston, Sr., Center for Advanced Microstructures and Devices (CAMD) was initiated by a grant from the Department of Energy in 1988. At the heart of the center is a 1.2 GeV electron storage ring. This high-energy particle accelerator
produces a broad spectral range, from radio waves to X-rays, of very bright and intense electromagnetic radiation, which can be used by researchers for a variety of applications. Among these are fabrication of extremely small 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. The ring, housed in a facility on Jefferson Highway about five miles from campus, is the cornerstone of the newly created Louisiana Research Park.

CENTER FOR COASTAL, ENERGY, & ENVIRONMENTAL RESOURCES

EXECUTIVE DIRECTOR • Great OFFICE • E302 Howe-Russell Geoscience Complex TELEPHONE • (504) 388-6316 FAX • (504) 388-5328

The Basin Research Institute, Center for Energy Studies, Coastal Ecology Institute, Coastal Fisheries Institute, Coastal Studies Institute, Department of Oceanography & Coastal Sciences, Information Services Division, Institute for Environmental Studies, Mining and Mineral Resources Research Institute, Nuclear Science Center, Special Programs, and Wetland Biogeochemistry Institute comprise the Center for Coastal, Energy, & Environmental Resources (CCEF). The center facilitates the development of innovative research programs leading to a better understanding of the coastal, energy, and environmental resource systems critical to the continuous economic growth of Louisiana and the well being of its citizens.

Basin Research Institute

DIRECTOR • John OFFICE • 208 Howe-Russell Geoscience Complex TELEPHONE • (504) 388-8328 FAX • (504) 388-3662

The Basin Research Institute (BRI) performs multidisciplinary research to evaluate hydrocarbon occurrence in the Gulf of Mexico Basin to improve oil and gas recovery and to provide technical support for the operators in Louisiana. Research includes basin stratigraphy and sedimentation, geochemical analysis, carbonate diagenesis, and reservoir characterization. BRI participates in and supports cooperative projects with the Departments of Geology & Geophysics and Petroleum Engineering, the Coastal Studies Institute, and the Louisiana Geological Survey. Research results are disseminated through publications and presentations in conferences, symposia, and workshops. This research is valuable to independent operators involved in petroleum exploration and production within the state because it provides access to technology and research otherwise unavailable. An important objective of the institute is to build upon state support by obtaining additional research funding through granting agencies and the petro industry.

Center for Energy Studies

EXECUTIVE DIRECTOR • Baumann OFFICE • 1 East Fraternity Circle TELEPHONE • (504) 388-4400 FAX • (504) 388-4541

The primary objective of the Center for Energy Studies (CES) is to utilize the full potential of the University to assure Louisiana's energy future by attracting funds for energy research, by coordinating and supporting research efforts with information services, and by sharing expertise in preparing and coordinating research proposals. As the center pursues its objectives, unique educational opportunities are provided for students working on current and future energy problems. CES conducts objective analyses of energy-related policy, legislative, and economic issues affecting the people, government, and industries of Louisiana.

Coastal Ecology Institute

DIRECTOR • Carney OFFICE • 203B Coastal Ecology Building TELEPHONE • (504) 388-6515 FAX • (504) 388-6331

The Coastal Ecology Institute is a research unit whose scientific faculty investigates the wide range of ecosystems encountered in the coastal zone. The disciplines of the institute include ecology, systems theory, hydrology, and coastal oceanography. Research is directed at development of a system level of understanding. Of special interest is the development of a capacity to understand the interaction of biotic and abiotic factors distributed over a large and complex area. Research in the institute includes wetland, estuarine, and oceanographic sampling, hydrological modeling, ecological simulation, and remote sensing. The dynamic coastal wetlands and the nearshore marine environment of Louisiana are the sites of most of the institute's research. Areas of research include land loss, marsh subsidence, sea-level rise, the emergence of the Atchafalaya Delta, and impact of habitat modification. Additional research is underway in environments similar to Louisiana's in Central America, Europe, China, and elsewhere within the United States.

Coastal Fisheries Institute

DIRECTOR • Shaw OFFICE • 218 Wetland Resources Building TELEPHONE • (504) 388-6455 FAX • (504) 388-6331

The Coastal Fisheries Institute (CFI) was created in 1983 to conduct applied and fundamental research intended to provide a better understanding of relationships among man, environmental processes, and fish communities; to document the status of existing fisheries and fish populations; and to assist in providing the research foundation for the evolution of a more stable marketing system. The objectives of CFI are to strengthen and lead marine fishery-related research (fish, molluscs, 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 decisions and management decisions; and to cooperate with the Louisiana Department of Wildlife and Fisheries to assure the safe development and wise use of Louisiana's fishery resources.

Research at CFI coordinates and integrates knowledge from zoology, ecology, biochemistry, oceanography, economics, law, and statistics to address serious problems, such as overfishing, pollution, habitat loss, and resource utilization disputes that threaten Louisiana's fishery resources, its rich coastal heritage, and the economic well being of an important industry.

Coastal Studies Institute

DIRECTOR • Roberts OFFICE • 331 Howe-Russell Geoscience Complex TELEPHONE • (504) 388-2395 FAX • (504) 388-2820

The Coastal Studies Institute is a research organization established in 1952 with major emphasis on dynamic processes in the ocean, atmosphere, and marine geology. It receives support from state and federal agencies, including the U.S. Geological Survey, the National Science Foundation, the National Aeronautics and Space Administration, the Louisiana Board of Regents, the Coastal Sciences Program of the Office of Naval Research, the Corps of Engineers, the Sea Grant Program, and major petroleum companies.

Research is interdisciplinary, including marine geology and geophysics, hydrodynamics, dynamic meteorology, physical oceanography, and remote sensing. Field investigations have been undertaken on all continents except Antarctica, including the coast of the Arctic Ocean. Research concentrates on form-process relationships in coastal and continental-shelf environments.

The emphasis of the marine geology program is on deltaic and shelf sedimentary environments and sediment-transport mechanisms, including mass-movement processes. Physical oceanography research focuses on the dynamics of water and sediment particles in near-coastal, 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. An Industrial Associates Research Program supplements contractual research funds.

Department of Oceanography & Coastal Sciences

CHAIR • LaRock, Professor OFFICE • 258 Military Science Building TELEPHONE • (504) 388-6308 FAX • (504) 388-6406

BOYD PROFESSORS • Coleman, Patrick PROFESSOR EMERITUS • Gosselin PROFESSORS • Adams, Day, Coleman, Gambrell, Hau, Huh, LaRock, Mendelepsnohn, Meyers, Murray, Patrick, Roberts, Turner, Van Lopik, Wang, Wiseman
ASSOCIATE PROFESSORS • Baltz, Carney, Condrey, Inoue, Power, Rouse, Shaw, Wilson
ADJUNCT FACULTY • Bouma, Dortch, McKeel, Rabalais

This department offers the Master of Science, the Master of Natural Sciences, and the Doctor of Philosophy degrees, and encourages expansion of marine-related instruction in other academic departments. Overall emphasis is given to the fundamental understanding and practical application of knowledge concerning the physical, chemical, biological, geological, meteorological, economic, and legal aspects of those environments usually identified as marine, coastal, or estuarine. The more than 4,700 square miles of freshwater to saltwater marsh and estuary found in Louisiana, comprising the largest river in the U.S. and the most intensely developed continental shelf, serve as a vast natural laboratory for the department's field research.

Admission to the program in oceanography and coastal sciences requires admission to the Graduate School and a strong bachelor's or graduate degree in an approved field of science or engineering. Complete descriptions of all courses offered by the department are included in this catalog.

See the "Master of Natural Sciences" program in the Graduate Bulletin for additional information about this interdepartmental graduate program.

Information Services Division

DIRECTOR • Bradley
OFFICE • East Fraternity Circle
TELEPHONE • (504) 388-4600
FAX • (504) 388-4541

The Information Services Division of the Center for Coastal, Energy, & Environmental Resources provides a multi-level approach to information. This division also serves as a selector, collector, provider, and producer of energy and related environmental information. The division also:
- performs a library and reference function, including the acquisition and maintenance of a books and materials collection related to energy and related environmental research, policy, and education (especially relevant to Louisiana);
- searches online bibliographic utilities;
- locates difficult to find research and technical reports; and
- networks with the community for educational enhancement in energy and the environment, manages the state's energy statistics database, and contributes to the broader understanding of energy and environmental concerns.

This reference service extends beyond the LSU campus to educators, and to governmental, business, industrial, and consumer groups.

In addition, the division creates and maintains statistical, bibliographic, and biographic databases; plans and conducts workshops and conferences; represents CCEER through display and exhibit presentations; provides specialized services on contract; and writes, prepares, and publishes a variety of energy publications, including Publishing Oppor-
tunities for Energy Research, and the quarterly Louisiana Energy Indicators. The division has designated a National Network Center for Environmental Education by the Alliance for Environmental Education.

Institute for Environmental Studies

DIRECTOR • Overton
OFFICE • 42 Atkinson Hall
TELEPHONE • (504) 388-8521
FAX • (504) 388-4286

The Institute for Environmental Studies conducts teaching and research in environmental sciences, with participation by the Colleges of Agriculture, Arts & Sciences, Basic Sciences, Business Administration, Design, and Education; the School of Veterinary Medicine; and other units in the Center for Coastal, Energy, & Environmental Resources.

The institute offers a variety of comprehensive undergraduate courses relating to the environment, although a bachelor's degree is not offered. A master's degree in environmental sciences is offered with two areas of concentration—environmental toxicology and environmental planning and management.

Research activities within the institute include environmental assessment, environmental resources, water quality, environmental management, environmental toxicology, acid deposition, hazardous waste management, and the environmental impact of energy systems.

For additional information, see the section, "The Graduate School and Professional Programs" in this catalog.

Mining & Mineral Resources Research Institute

DIRECTOR • Pike
OFFICE • 210 Center for Energy Studies
TELEPHONE • (504) 388-6750
FAX • (504) 388-1476

The Louisiana Mining & Mineral Resources Research Institute, supported by state and federal funds from the U.S. Department of the Interior, was established at LSU in 1979. The institute supports research on minerals extraction and minerals processing, legal and business-related research, and environmentally related research. This research is directed at the chief minerals in the state and region—oil and natural gas—as well as other important minerals—sulfur, salt, and lignite. These mineral resources are among Louisiana's most valuable assets.

Nuclear Science Center

DIRECTOR • Lambromont
OFFICE • 127 Nuclear Science Center
TELEPHONE • (504) 388-2163
FAX • (504) 388-2094

The Nuclear Science Center, while providing services to the University in radiation consulting, radiation protection, and research facilities, has primary roles in research and academic programs.

In addition to these primary roles, the center organizes short courses, conferences, and symposia to advise industry and the general public of nuclear applications and developments pertinent to Louisiana and the nation. Faculty and students cooperate with Department of Energy national laboratories as well as with other departments at LSU.

Laboratories for graduate programs and faculty research are included in the center and in the radiocology field laboratory located south of the main campus on the Ben Hur Farm.

For additional information, see the section, "The Graduate School and Professional Programs" in this catalog.

Radiation Safety Office

DIRECTOR • Scott
OFFICE • East Fraternity Circle
TELEPHONE • (504) 388-4400
FAX • (504) 388-4541

The use of radioisotopes or radiation-producing devices is governed by the Campus Radiation Safety Committee. The campus radiation safety program is administered by the Radiation Safety Office, Nuclear Science Center. Approval for the use of radioisotopes or radiation-producing devices must be obtained prior to their use. Professional health physicists are available for consultation regarding radiation safety aspects of planned activities.

Special Programs

DIRECTOR • Grantham
OFFICE • E300 Howe-Russell Geoscience Complex
TELEPHONE • (504) 388-6316

Projects and programs involving participants from more than one CCEER institute and/or transcending the mission of a single unit, are designated as "special programs." Most special programs are supported with contract funds and involve the application of CCEER research results to resources and environmental issues. Project leaders report to the Executive Director of CCEER and are supported by administrative staff.

Current special programs include the Natural Systems Management and Engineering Program, Coastal Marine Institute, Oil Spill Research and Response Program, Oil Spill/Environmental Geographic Information System, and management of the Louisiana Oil Spill Research and Development Program for the Oil Spill Coordinator, Office of the Governor.

Wetland Biogeochemistry Institute

DIRECTOR • Patrick
OFFICE • 103 Wetland Biogeochemistry Building
TELEPHONE • (504) 388-8810
FAX • (504) 388-6423

Established in 1977, the LSU Wetland Biogeochemistry Institute investigates sedimentary systems and plant relations in natural wetland ecosystems such as salt marshes, fresh and brackish marshes and swamps, and floodplains, and the chemical and biological behavior of plant nutrients and toxic substances in wetland ecosystems. The environmental impacts of pesticides, toxic heavy metals,
hydrocarbons, and plant nutrients in wetlands are major areas of expertise.

Current studies deal with response of wetland plants to various environmental stresses such as aerophoric soil conditions and salinity; biogeochemical cycling of nitrogen and carbon in fresh, brackish, and saline wetlands; factors affecting biodegradation of toxic organic compounds in wetlands; physiocochemical properties of toxic metals in soils and sediments; comparative ecosystem functioning of wetlands and nonwetlands; and chemical, physical, and biological factors affecting coastal marsh stability. In addition to University support, the laboratory receives financial support from various federal and state agencies.

OFFICE OF INTERNATIONAL DEVELOPMENT

EXECUTIVE DIRECTOR • Albina
OFFICE • 240 Thomas Boyd Hall
TELEPHONE • (504) 388-5841

The Office of International Development coordinates the University's activities with foreign universities and governments. Its main focus is to facilitate international exchange of students and faculty and to help initiate joint international projects that will support economic development in Louisiana and in other parts of the world. The office also assists in efforts to secure funding for international activities from various multilateral development agencies.

NATIONAL PORTS & WATERWAYS INSTITUTE

DIRECTOR • Hochstein
OFFICE • Helen Carter House, Raphael Semmes Dr.
TELEPHONE • (504) 388-2771
FAX • (504) 388-2821

The National Ports & Waterways Institute conducts and administers the University's maritime-related research, education, and advisory activities. Emphasis is on the solution of practical problems confronting the maritime transportation and offshore industries. Institute programs encompass inland waterways, coastal ports, fishing ports, and the interfaces between shallow- and deep-draft navigation, and between vessel and surface transportation systems.

To achieve applied results, the institute bases its activity on analysis of all major components of water transportation and their interactions. Areas of institute expertise include strategic planning for maritime industry; intermodal planning for integrated maritime and surface transportation systems; assessment of waterborne commerce in international and domestic trade; port management and administration; market analysis and traffic intermodal allocation; maritime economics and finance; shipping safety; port and offshore technology assessment; inland barge and ocean-going vessel operation; navigation channel and lock design and capacity estimates; and dredging requirements and costs.

The institute's mission involves maintaining close liaison with a broad spectrum of the maritime industry, as well as public, private, and research/educational organizations with interests in water-based transportation in the U.S. and overseas. Research and training programs are defined in response to maritime transportation needs. National, state, and regional benefits are assessed in defining policies, operational measures, and investments in waterways and ports improvements. Impact of shipping industry and ports performance on transportation costs, revenues and tariffs, regional employment, and industrial development are considered.

REMOTE SENSING & GEOGRAPHIC INFORMATION SYSTEMS COORDINATING COUNCIL

OFFICE • 240 Thomas Boyd Hall
TELEPHONE • (504) 388-5833

The Remote Sensing & Geographic Information Systems Coordinating Council, composed of eight faculty members, reports to the Vice-Chancellor for Research and Economic Development. The council represents more than 50 faculty and staff in five colleges on two campuses. Currently, these faculty members are conducting research and teaching in the general area of remote sensing and geographic information systems.

The council's major responsibilities are to:

- encourage interdisciplinary research, utilizing all the capabilities of the various laboratories involved in remote sensing, mapping, and geographic information systems;
- facilitate the development of interdisciplinary research proposals;
- develop and coordinate multidisciplinary graduate programs in these areas;
- develop standardized formats for transfer of mapping data between laboratories;
- promote a remote sensing graduate fellowship for undergraduate and graduate instruction in remote sensing and geographic information systems.

OFFICE OF SPONSORED RESEARCH

DIRECTOR • Graham
OFFICE • 117 David Boyd Hall
TELEPHONE • (504) 388-6891
FAX • (504) 388-6792

The Office of Sponsored Research assists faculty in obtaining support for research and scholarly activities and coordinates review and approval for research and sponsored projects. It issues reports on research activity and maintains a database on research funding and research interests of faculty. The office maintains an extensive online information resource of funding sources, research databases, and help files for online operations that is available to anyone with access to the LSU computer network. Assistance is provided to faculty in preparing grant proposals and in locating sources of funding.

OFFICE OF SEA GRANT DEVELOPMENT

EXECUTIVE DIRECTOR • Van Lopik
OFFICE • 240 Wetlands Resources Building
TELEPHONE • (504) 388-6710
FAX • (504) 388-6331

The Louisiana Sea Grant College Program is part of the National Sea Grant College Program, a congressionally mandated federal/state endeavor that is administered by the National Oceanic and Atmospheric Administration (NOAA) of the U.S. Department of Commerce. The national program network includes 30 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/or developing selected capabilities in the Louisiana university community and, as appropriate, drawing on those in the national program network. 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.

Louisiana Sea Grant annually funds approximately 30 individual projects at state universities. These projects typically provide support for more than 20 graduate students. 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. It is presently one of only 25 universities in the U.S. designated as both a land-grant and sea-grant institution.

LOUISIANA SPACE CONSORTIUM

DIRECTOR • Wefel
OFFICE • 277 Nicholson Hall
TELEPHONE • (504) 388-8997
FAX • (504) 388-1222

The Louisiana Space Consortium (LaSPACE), supported by funds from the National Aeronautics and Space Administration and the Louisiana Board of Regents, is a group of 16 Louisiana institutions of higher education working with the state's two education boards and two business/industry partners. The goal is to enhance space and aerospace related research, technol-
The objectives of the Office of Technology Transfer (OTT) are to protect the intellectual properties of the University—new ideas, inventions, and discoveries—by patents and copyrights; to seek clients in the U.S. and worldwide; and to negotiate and license technologies for the monetary gain of the University and the inventor.

The LSU Museum Complex includes the LSU Museum of Art and the LSU Museum of Natural Science, the purposes of which are research, enrichment of various academic programs, and public service.

**Museum of Art**

**DIRECTOR** • Bacot  
**OFFICE** • Memorial Tower  
**TELEPHONE** • (504) 388-4003

The LSU Museum of Art, located in Memorial Tower, houses the University's permanent fine art collection and shows the cultural relationship between the U.S. and Great Britain. The museum contains original period rooms from England and America, representing the early 17th through the mid-19th centuries, as well as galleries for temporary exhibitions.

In addition to the period rooms, there is a strong painting, print, and drawing collection that includes works by Hogarth, Gainsborough, Reynolds, Benjamin West, Rembrandt Peale, and some of the contemporary masters. The museum's collection of the graphic works of the late Caroline W. Durieux, internationally recognized printmaker, is the most comprehensive in existence. The museum houses outstanding collections of New Orleans-made silverware, Newcomb pottery, and other crafts made in New Orleans. Also housed are 19th century lighting devices and early oil and watercolor paintings depicting south Louisiana subjects, especially Baton Rouge area views.

Until a new museum facility can be built, space has been provided in Lakeshore House to showcase the multicultural collection given to LSU by Charles E. Craig, Jr. At present, the collection includes New Guinea wood sculpture, early Indian stone sculpture and miniature paintings, pre-Columbian pottery and textiles, and contemporary American works.

The museum, Friends of the Museum of Art, supports the museum by providing funds for art purchases, sponsoring loan exhibitions and tours, and by helping with the conservation of objects.

**Museum of Natural Science**

**DIRECTOR** • Hafner  
**OFFICE** • 119 Foster Hall  
**TELEPHONE** • (504) 388-2855  
**FAX** • (504) 388-3075

The Museum of Natural Science consists of the Division of Zoology, located in Foster Hall, and the Division of Geoscience, located in the Howe-Russell Geoscience Complex. Museum exhibits are open daily to the general public. 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 principles.

The museum's Division of Zoology contains extensive research collections, numbering more than 500,000 cataloged specimens of birds, mammals, fishes, amphibians, reptiles, and their tissue samples. This internationally known repository of zoological material provides the basis for a program of organized research and serves as an important aid in teaching biological subjects.

The Division of Geoscience contains the most extensive archeological and geological museum collections in Louisiana. The museum curates archaeological collections, including 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 ostracods 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 Association of Systematics Collections and the Association of Science and Technology Centers. Two support organizations—Patrons of the Museum of Natural Science and Geoscience Associates—sponsor numerous museum activities throughout the year. The museum's zoology exhibits (Foster Hall) are free and open to the public.

**OTHER MUSEUMS**

**Vascular Plant Herbarium**

The Vascular Plant Herbarium 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 100,000 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 Gulf Coast specimens are included. New material is obtained through the collecting efforts of herbarium personnel and associated colleagues and 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 Coast plants, and a resource of international importance for the plants of the circum-Caribbean region.

The herbarium is a reference and service facility, and is an essential resource for all research, teaching, and public service involving classification, identification, 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; use may be arranged through the curator, 342 Life Sciences Building.

**Lichen and Bryophyte Herbarium**

The Lichen and Bryophyte Herbarium, located in the Life Sciences Building, is a permanent scientific collection of preserved material of more than 40,000 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 Shirley Tucker, Department of Plant Biology. 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. Active exchange programs with institutions worldwide continue to increase and diversify the holdings.

The herbarium is primarily a research and teaching facility. Research programs are in progress on floristics of southeastern U.S. lichens and on ultrastructure of subtropical crustose lichens. On request, specimens are available for loan to other institutions.

**Mycological Herbarium**

The Mycological Herbarium, located in the Radioisotope Building, 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 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.
The Rural Life Museum, a 20-building complex, is located approximately five miles from campus on the University's 450-acre Burden Research Plantation. This unique 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 plantation.
- Louisiana Folk Architecture is exemplified in seven buildings—a church, a pioneer's cabin and corncrib, potato house, shotgun house, Acadian house, and a dog-trot house—whose divergent construction traits illustrate the various cultures of Louisiana settlers.

Adjacent to the museum is the Windrush Gardens, designed and planted by Steele Burden. This five-acre expanse of semiformal gardens with winding paths and open areas is reminiscent of 19th-century Louisiana gardens.

LSU AGRICULTURAL CENTER

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. The nature of this research, applied as well as basic, enriches the graduate program and helps sustain the agricultural industry of the state and region. Many Agricultural Experiment Station faculty hold joint teaching and research appointments in the Colleges of Agriculture, Arts & Sciences, and Basic Sciences, 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.

PENNINGTON BIOMEDICAL RESEARCH CENTER

EXECUTIVE DIRECTOR • Bray
OFFICE • 6400 Perkins Road
TELEPHONE • (504) 765-2800
FAX • (504) 765-2825

The Pennington Biomedical Research Center (PBRC) is involved in research in nutrition and preventive medicine. Many of its full-time scientists hold adjunct appointments in LSU units, such as the School of Medicine's Department of Medicine, Department of Physiology, Department of Anatomy, and Department of Obstetrics and Gynecology; the College of Agriculture's School of Human Ecology and Department of Food Science; and the School of Veterinary Medicine's Department of Veterinary Physiology, Pharmacology, & Toxicology. Similarly, faculty in several LSU departments, such as the Departments of Biochemistry, Chemistry, and Psychology, hold adjunct appointments at Pennington.

Pennington offers opportunities for graduate and postgraduate research in areas including clinical and experimental obesity, hypertension, stable isotopes, lipoprotein and cholesterol metabolism, and nutrition and behavior.

OAK RIDGE ASSOCIATED UNIVERSITIES

LSU is a founding member of the Council of Sponsoring Institutions of Oak Ridge Associated Universities (ORAU). Since 1946, students and faculty of LSU have benefited from its membership in this consortium of colleges and universities. In addition, ORAU is a management and operating contractor for the U.S. Department of Energy (DOE), located in Oak Ridge, Tennessee. ORAU works with its member institutions to help 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 manages—undergraduates, graduates, 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, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry, and mathematics. Appointment and program length 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 Resource Guide and the Minority Research and Education Programs brochure, which are available by calling the contacts below.

ORAU seeks opportunities for collaborative research and development alliances among ORAU's members, private industry, and major federal facilities. Current alliances include the Southern Association for High Energy Research, the Bioelectromagnetics Research Consortium, High Performance Computing, Bioprocessing, Pan American Association for Physics, Materials Science Forum, and international initiatives in support of the new independent states in Central and Eastern Europe. Other activities include the sponsorship of conferences and workshops, the Visiting Scholars' Lecture Program, and Junior Faculty Enhancement Awards. A copy of Especially for Members, which details university-related programs, is available from the contacts below.

For more information about ORAU and its programs, contact Dr. John C. Courtney, ORAU Council Member, (504) 388-2740; or contact Ann H. Patton, ORAU Corporate Secretary, Oak Ridge, Tennessee (615) 576-3306.

ORGANIZATION FOR TROPICAL STUDIES

The Organization for Tropical Studies (OTS) is a nonprofit scientific, academic consortium whose mission is to provide leadership in tropical studies by promoting education, research, and the wise use of natural resources in the tropics. Founded in 1963, OTS is now composed of 55 premier institutions in the U.S. and Central America, including LSU. Graduate students at LSU are eligible to participate in OTS's renowned field courses in tropical biology and tropical agroforestry and to apply for tropical research fellowships through the consortium.

OTS courses and research activities are centered in Costa Rica and Brazil. Central headquarters are in San José in association with the Universidad de Costa Rica; several field stations are located throughout the countries. OTS offers its facilities, equipment, and staff for support of meritorious programs of tropical research. Limited funds are available through OTS for qualified faculty and graduate participants to initiate projects in tropical research.

Additional information regarding the program and application forms for participation are available from Dr. G. Bruce Williamson, Department of Plant Biology, 502 Life Sciences Building, or from the Organization for Tropical Studies, North American Office, P.O. Box DM, Duke Station, Duke University, Durham, North Carolina 27706. The Central American address is Organization for Tropical Studies, Apartado 676, 2050 San Pedro de Montes de Oca, Costa Rica, C.A.
DIVISION OF
CONTINUING EDUCATION

FRITZ A. McCAMERON
Dean

DANIEL C. WALSH, JR.
Associate Dean

RITA R. CULROSS
Assistant Dean

WINTON W. HYMEL
Assistant Dean

RONALD S. McCORRY
Assistant Dean

DOREEN O. MAXCY
Assistant to the Dean

347 Pleasant Hall
(504) 388-3162
FAX • (504) 334-6054

The Division of Continuing Education, an academic unit established in 1924 and located in Pleasant Hall, provides educational opportunities for adults and other nontraditional students. In addition to its regular staff, members of the University faculty and adjunct teachers are appointed as instructors. Each regular and adjunct faculty member who engages in continuing education services is approved by the department head, the academic dean concerned, and the dean of the Division of Continuing Education. Continuing education instructors assigned to graduate courses must meet graduate faculty requirements and be approved by the dean of the Graduate School.

In cooperation with the various schools and colleges of the University, the division extends the resources of LSU with more than 80,000 registrations a year to persons in every parish, every state, and throughout the world. Formal university-level instruction is provided through off-campus courses and independent study. Credit courses taught off campus are offered in accordance with guidelines of the Board of Regents. In addition to formal class instruction, the division conducts a variety of other higher education adult services to meet the needs of lifelong learners.

THE CONTINUING EDUCATION CENTER

Quality facilities and services make the Continuing Education Center one of the outstanding centers of its kind in the nation. The center is operated primarily for those who wish to spend brief periods of time in serious and intensive study of problems related to their professional, civic, academic, and cultural interests.

The center houses a large auditorium with a seating capacity of 250, two mediumsized auditoriums with seating capacities of 80 each, and 10 smaller conference rooms. In addition, Pleasant Hall contains 18 suites and 72 bedrooms, all of which have private baths with maid service. Other routine hotel accommodations, except food service, are available.

For additional information, call (504) 387-0297.

SPECIAL ACADEMIC PROGRAMS

Study Abroad

Through the Office of Academic Programs Abroad, students travel worldwide to study for a summer, semester, or academic year. Participating students earn credit toward their LSU degrees and return to the Baton Rouge campus to complete their curricula.

Overseas study provides significant benefits. Students are immersed in foreign languages and cultures, have access to coursework unavailable on home campuses, develop personal independence and global awareness, and enjoy academic and travel opportunities that enrich their general education. Many students find that study 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, such as summer schools in London and Paris. 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. A few students study in programs offered by other U.S. schools or enroll directly in a foreign university.

Students receive academic credit for study abroad. In some programs, students receive regular credit in LSU courses, just as they would on campus. In other 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.

Although some study abroad programs cost more than attending LSU in Baton Rouge, others, including exchanges, cost about the same. Students with scholarships, loans, and grants may use financial aid, with few exceptions, for any overseas study approved by LSU.

Access to study abroad, while generally available, requires attention to eligibility criteria and application procedures. Requirements vary from program to program, as do application procedures. Students from all majors can benefit and are welcome to join our programs.

The best time 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.

Interested students are urged to contact the Office of Academic Programs Abroad, 365 Pleasant Hall, or call (504) 388-6801 for information.

National Student Exchange (NSE)

The National Student Exchange program, coordinated by the Office of Academic Programs Abroad, offers students the opportunity to study for a semester/year across the U.S. and its territories. Through the NSE consortium, students may choose from more than 100 colleges and enroll out-of-state at the same cost as residents. In a reciprocal manner, LSU receives students from all over the U.S.

NSE offers numerous benefits. In addition to travel, students can explore the cultural diversity of various regions of our country. They can take courses unavailable at LSU and visit potential sites for graduate study. Participants develop self-reliance and make valuable career contacts through internship programs.
Recently, LSU students have studied in Hawaii, Puerto Rico, California, Utah, Massachusetts, Washington, Montana, South Carolina, Wyoming, Colorado, New Mexico, Tennessee, Alabama, and North Carolina. Students taking courses for transfer to LSU must complete an approval process to ensure receipt of academic credit. Students with scholarships, grants, and loans may use LSU and federal financial aid to participate in the NSE. The host NSE schools provide a number of services to incoming LSU students, such as assistance with housing, registration, and occasionally, part-time jobs. Each NSE school has a coordinator assigned to facilitate the exchange and help incoming students.

To qualify for the NSE, applicants must have at least a 2.50 grade-point average and must have completed a minimum of 36 hours of credit. February 1 is the application deadline for placement in the following academic year.

Additional information is available from the Office of Academic Programs Abroad, 365 Pleasant Hall. Catalogs of the participating NSE schools are also available for perusal.

**CONFERENCE SERVICES**

The primary purpose of Conference Services is to provide a full array of coordination services for any conference sponsored by the various departments and units of the University. Services include planning, logistical arrangements, financial management, registration, and record keeping. Call (504) 388-6621 for additional information.

**ENGLISH LANGUAGE & ORIENTATION PROGRAM**

Five, eight-week English and orientation courses for international students are offered each year in August, October, January, March, and June by the English Language & Orientation Program (ELOP). These courses are designed to enable international students to attain a mastery of English and to facilitate their adjustment to the educational, social, and cultural life of the U. S. through a program of language classes, cultural activities, and field trips.

The core curriculum consists of 22.5 hours of weekly instruction in reading, composition, listening comprehension, spoken English, and grammar; levels range from elementary through advanced. All classes are taught by full-time faculty.

Four electives are also offered. All students may elect to take a 10-hour intensive TOEFL preparation course or conversation classes, which are offered one hour each day for five weeks. These conversation classes are led by trained American students who meet with small groups of ELOP students. Students in upper levels may elect a course, "Introduction to Computers," or a five-week "English for Business" course designed to introduce students to a variety of concepts and aspects concerning the U.S. and international business.

Applications to this program may be obtained by contacting the English Language & Orientation Program, 397 Pleasant Hall, LSU, Baton Rouge, LA 70803-1510 or by calling (504) 388-5642; FAX (504) 388-5710. Admission to the English Language and Orientation Program neither signifies nor guarantees admission to LSU.

**ENVIRONMENTAL & OCCUPATIONAL SAFETY TRAINING**

The Environmental and Occupational Safety Training Program provides noncredit courses for the workforce to ensure a safer and more environmentally sound workplace. Courses include training and supervision of hazardous materials workers, waste site management, and handling of asbestos, and other general safety instruction that satisfies the training requirements for OSHA, EPA, DOT, and the Louisiana Department of Environmental Quality.

In addition, the professional environmental program offers a series of classes that cover a wide variety of environmental topics, including environmental law, permits, hazardous materials management, health and safety in the workplace, and remediation technologies. Students may earn a "Professional Certificate in Environmental Management" or a "Professional Environmental Technician Certificate" after completing as few as 24 continuing education units, depending on background and education. For additional information, call (504) 388-6621.

**EVENING SCHOOL**

The LSU Evening School consists of four units: Evening School, PASS Program, Intersession, and Off-Campus Programs. Evening School offers students opportunities to obtain college degrees by attending courses at night and on the weekends. Students may work toward undergraduate degrees in computer science, English, general business administration, general studies, history, mathematics, political science, psychology (B.A. or B.S.), sociology, vocational education, or the Master of Arts in Humanities degree. Courses may be taken for degree credit or audited. These courses are offered on the LSU campus and at sites in East Baton Rouge Parish.

The Program for Adult Special Students (PASS) involves part-time study for those who want to begin or return to college somewhat later in life than usual. Students may enroll in the PASS Program to prepare for possible entry into a degree program at LSU, to upgrade job skills, or to take courses for personal enrichment.

Admission procedures are simplified for added convenience. Students wishing to enroll will apply through the Office of Undergraduate Admissions. They must have a high school or GED diploma and have been out of high school or college for at least one year. The one-year period will be waived for students holding a bachelor's degree.

PASS students may schedule a maximum of nine hours per semester and earn a maximum of 24 semester hours in the PASS program. Students failing to earn all of the credit scheduled may be dropped from the program at the discretion of Continuing Education. Students who have earned 24 hours in PASS (excluding remedial courses) at least a 2.00 gpa may apply for regular admission to the University.

The Evening School provides counseling for all students in the PASS category. For additional information, see the section, "Undergraduate Admission to the University" in this catalog.

Intersession offers a variety of courses during an intensive three-week period between the spring semester and summer school. Courses taught during Intersession are open to PASS students and to regularly admitted students in good standing. With special permission, students not in residence at LSU may also take courses during Intersession.

Off-Campus Programs are offered throughout the state. A Master of Library and Information Science degree is offered at various locations throughout the state, a master's degree in petroleum engineering is offered in New Orleans, and a doctorate in education is offered in Shreveport.

Courses are also offered through the Telelearning Network, which allows one instructor to communicate with students at remote locations throughout the state via
telephone lines that provide verbal and visual contact, on cable television, and via satellite. In addition to the above, there is also a program sponsored by the U.S. Army Corps of Engineers at the Waterways Experiment Station, Vicksburg, Mississippi. This program represents a consortium of LSU, Texas A&M, and Mississippi State University, each of whom provides doctoral courses in various scientific fields.

Finally, other special programs of study are offered through the school, including the Engineering Management Certificate Program (Baton Rouge, New Orleans, and Alexandria) and the CPA Preparation Program (Baton Rouge only).

For additional information, contact LSU Evening School, 388 Pleasant Hall, LSU, Baton Rouge, LA 70803 or call (504) 388-5213; FAX (504) 388-5305.

**FIREFIGHTER CERTIFICATION PROGRAM**

The Louisiana Firefighter Certification Program offers certification testing for career and volunteer firefighters in all levels of the National Fire Protection Association Professional Qualification Standards. The system is accredited by the International Fire Service Accreditation Congress. Although the program is not mandatory, it is strongly supported by the state’s fire service associations.

For additional information, write the Louisiana Firefighter Certification Program, Division of Continuing Education, LSU, 327 Pleasant Hall, Baton Rouge, LA 70803 or telephone (504) 388-5051 or FAX (504) 388-4658.

**FIREMEN TRAINING PROGRAM**

The 51-acre training center south of the LSU campus provides in-service training to firefighters throughout Louisiana and complements the training provided by Firemen Training instructors who teach in the seven regions of the state.

Activities include courses taught in every parish in Louisiana. A series of specialized programs taught at the center meet in-service needs and provide the national and state qualifications for both career and volunteer firefighters. These programs include instruction in aircraft rescue, hazardous materials, emergency medical services, marine firefighting, and water rescue. In addition, the Industrial Program with 10 instructors offers specialized, OSHA-approved industrial training courses for individuals and fire brigades, both at the training center and at industrial plant sites.

The Fireman Training Instructional Resource Center distributes educational materials on the prevention of fires and fire casualties. A correspondence study course for firefighters is offered by the division’s Office of Independent Studies. For more information, write the Fireman Training, 5686 Nicholson Extension, Baton Rouge, LA 70820 or call (504) 766-0600.

**GOVERNMENT PROGRAMS**

The Office of Government Programs (OGP) provides noncredit and certification programs and technical assistance for Louisiana local government and related agencies. The LSU Certified Local Government Manager Program (CLGM) and the LSU Leadership Academy for Elected Officials provide current management and leadership training for local government leaders and their staff.

Through the strategic planning program, leaders from local government learn to define management goals and plans to accomplish their missions. OGP instructors travel across the state to provide consultation services and to deliver on-site training programs. This office also provides complete conference services.

Program participants include elected officials and staff from municipal and parish governments, clerks of court offices, and sheriff’s, city police, and fire departments. For more information, call (504) 388-6746.

**INDEPENDENT STUDY**

The Office of Independent Study, the eighth largest correspondence program in the country, offers courses in both college and high school subjects taught by University faculty members. Enrollment in a correspondence course may be made at any time.

College-level courses are substantially the same in scope and content as those taught on campus. They are of particular interest to high school graduates who are unable to enroll immediately for residence credit, to college students temporarily out of school, to adults who seek personal benefit from supervised study, and to teachers who are working toward certification.

High school instruction by correspondence offers high school students a program of study that can be followed at home. High school students can enrich their study programs by enrolling in correspondence courses that the local school is unable to offer or by taking courses to supplement needed credits.

Independent Study has a special high school degree option for those who have not received a high school diploma, are 18 or older, have been out of school one full semester, and need six or fewer high school credits to graduate. A qualified individual may choose to complete course work and receive the high school degree from the University Laboratory School. According to the Louisiana Department of Education, graduation requirements are those that were in effect the year the individual should have graduated.

Information concerning correspondence study courses, requirements, and opportunities may be obtained from the Independent Study Bulletin, available on request from the Office of Independent Study, (504) 388-3171.

**LAW ENFORCEMENT TRAINING PROGRAM**

In-service training for law enforcement personnel is provided through the Law Enforcement Training Program. The Basic Training Academy offers five seven-week courses and the specialized Juvenile Officers School offers one five-week course. Specialized schools are conducted both on- and off-campus as the situations arise.

This training program is designed to provide officers with the most current information available from experts in all fields of law enforcement and related areas. Agents of the Federal Bureau of Investigation, judges, district attorneys, sheriffs, state and municipal officers, other public officials, and LSU faculty assist with the educational courses. For additional information, call (504) 388-5115.

**ECONOMICS AMERICA—LOUISIANA**

The Louisiana Council for Economic Education is a nonprofit organization, part of a national network of state councils affiliated with the National Council on Economic Education, and dedicated to improving the understanding of economics among the citizens of Louisiana.

Throughout the year, the council conducts workshops on teaching strategies and materials for elementary and secondary school teachers, gives or lends printed and audio-visual materials, works with school systems that are committed to the integration of economics into the K-12 curricula as Economics America schools, and sponsors an annual awards program for teachers who develop and implement innovative lessons. Call (504) 388-8611 or write Louisiana Council for Economic Education, 201 Lakeshore House, LSU, Baton Rouge, LA 70803 for additional information.

**PARALEGAL STUDIES PROGRAM**

The Paralegal Studies Program, approved by the American Bar Association, is an outgrowth of the Division of Continuing Education’s paralegal course offerings begun in 1982. The program offers a noncredit certificate for entry-level paralegals and continuing education seminars for practicing paralegals. Students must have at least 45 semester hours of college credit and a 2.00 overall grade point-average to be admitted into the program.

A unique feature is the “accelerated” program, in which students with a bachelor’s degree may complete the program in a single semester. The program offers academic counseling for its students and a placement service for its graduates. The courses are taught by members of the local legal community, including attorneys, judges, and practicing paralegals. For more information, call 1-800-256-1530 or (504) 388-6760.

**PERSONAL AND PROFESSIONAL PROGRAMS**

Personal and Professional Programs serves a broad adult audience. Management training for business or industry, technical training for engineers and draftsmen, personal enhancement courses (ranging from interpersonal communication to foreign language instruction), and enrichment courses in sports and music are a few examples. Call (504) 388-6621 for additional information.

**SHORT COURSES AND CONFERENCES**

Short Courses and Conferences handles registration for many of the division’s noncredit programs. Participants in these confer-
ences, seminars, short courses, workshops, and institutes do not receive college credit; however, they may be awarded Continuing Education Units (CEUs) for successful completion of a program considered professionally or academically worthy. Call (504) 388-6621 for additional information.

YOUTH PROGRAMS

The Office of Youth Programs conducts numerous programs for young people of pre-college age. Included are major summer programs, such as mini-courses for Gifted and High Achieving Youth, the High School Credit Program, the Youth Academy, and various summer camps. Other programs include examination preparatory courses, gymnastic programs, and conferences for adults who work with young people. For additional information, call (504) 388-6621 or 1-800-388-3883.
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, written communication, human behavior, mathematical reasoning, and computer literacy. Air Force ROTC cadets who are not in a curriculum including a course in mathematical reasoning must complete a three-hour course in this area approved by the head of the Department of Aerospace Studies. Additionally, Army scholarship cadets are required to complete course work (one semester) in a major Indo-European or Asian language. Both Army and Air Force ROTC conduct two- and four-year programs. Successful completion of either 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 $100 monthly subsistence allowance are available for selected students. Students enrolled in the Army ROTC program may compete for scholarships of two-, three-, or four-years’ duration. Students enrolled in Air Force ROTC may compete for scholarships of four-, three-, or two-years’ duration.

ELIGIBILITY

In order to be considered for enrollment in an ROTC program, a student must:
• be a full-time student;
• be a U.S. citizen or an applicant for naturalization;
• have good moral character as required by military regulations;
• for the advanced program, be physically qualified to participate as prescribed by the Department of Defense;
• be at least 14 years of age upon enrollment in the Air Force ROTC program, at least 15 years of age upon enrollment in the Army ROTC program, and at least 17 years of age upon enrollment in the Naval ROTC program;
• be under 30 years of age at the time of commissioning, and
• 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 and the Officer Selection Battery for the Army program.

Veterans and students who had junior ROTC training while in high school may be granted placement credit for the freshman/sophomore phase and may enter the junior/senior phase if their applications are approved by the Professor of Military Science or the Professor of Aerospace Studies.

MILITARY OBLIGATION

Except for ROTC scholarship 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, and LSU students who did not enroll in the freshman/sophomore phase. Upon successful completion of a six-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 who are under contract with the respective service will receive a $100 monthly tax-free subsistence allowance during each academic year. During the required four- or six-week training period (normally between the junior and senior years for Army ROTC and between the sophomore and junior years for Air Force ROTC), they will receive one-half the pay of a second lieutenant plus travel expenses.

ARMY ROTC SUMMER TRAINING

Army ROTC Advanced Course cadets attend a six-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 Air-
borne School, Air Assault School, Northern Warfare School, and Cadet Troop Leadership Training.

AIR FORCE FIELD TRAINING

Air Force ROTC field training is offered during the summer months at selected Air Force bases throughout the United States. Students in the four-year program participate in four 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 six-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 junior 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 leading to a commission in the U.S. Navy or Marine Corps. Openings are available in the four-, three-, or two-year programs. Navy ROTC is open to male and female students, and many naval science courses are taught on the LSU 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 through college algebra or higher 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 college 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.

Navel ROTC offers a wide range of career opportunities including navy and marine corps aviation; nuclear science; and nuclear power. Students who are enrolled in a physics, chemistry, or engineering curriculum have the opportunity of earning a $3,000 bonus as early as their junior year if selected for the Navy Nuclear Power Program.

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, Baton Rouge, LA 70813, (504) 771-4370.
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 Southern University (SU) students may each take courses at the other institution under an expanded and simplified cross-registration program between the two universities. Frequently, 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 extramural or correspondence 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 Student Records & Registration 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 Ph.D. 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.

A new project, “Career Oriented Research Workshops in Computer Science for Undergraduates,” has been funded recently by the NSF-EPSCOR Program. The goal of this project is to encourage beginning undergraduates from SU and LSU to pursue careers in the field of computer science.

This goal is to be accomplished by exposing selected students to research at LSU’s Robotics Research Laboratory through a number of workshops. Students from SU and LSU who have completed one of these workshops will be encouraged to participate in future work-study programs with industry and academia.

Environmental Sciences

The Master of Science degree in environmental sciences, a cooperative, multidisciplinary program between LSU and SU, requires a minimum of 24 semester hours of course work and six hours of thesis research. The following four options are available: environmental toxicology and environmental management systems 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, common to all options, 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.

Public Administration

The School of Public Policy and Urban Affairs at SU offers a Master of Public Administration degree in cooperation with the Department of Political Science at LSU. Four political science faculty members have been designated by LSU as core faculty to teach courses in the SU program. Students in the program are required to take a minimum of nine semester hours of political science courses at LSU. Fellowships are available for other-race applicants, with special consideration given to LSU graduates. Graduate-level work in political science at LSU will transfer as credit in the SU M.P.A. program. Students in the SU program also have access to LSU library and computer facilities.
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 points concerning courses:

- 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 one hour of lecture a week for one semester;
  - two hours of laboratory (in some cases, three) are the equivalent of one 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..." that 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 "University 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 permit students to make up deficiencies in previous training or to improve their 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 only with the permission of (1) the dean of the college offering the course, and (2) the dean of the student's college.

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 (law, social work, veterinary medicine). A student in the Graduate School may take these courses for credit with approval of the student's major department.

6000-6999 • Exclusively for teachers at the elementary, secondary, and junior college levels.

7000-7999 • For students in the Graduate School; for graduate credit only except as follows: Undergraduates with 75 or more semester hours who are making timely progress toward a degree may be admitted to 7000-level courses. Such students must have a 3.50 or higher GPA, the appropriate prerequisites, consent of the instructor, and permission of the dean of the student's undergraduate college. Credit so earned will apply only toward undergraduate degree requirements, except for students enrolled in an accelerated master's degree program.

8000-8999 • Research courses exclusively for graduate students, primarily for students working toward the master's degree; for graduate credit only. The number 8000 designates thesis research.

9000-9999 • Research courses exclusively for graduate students, primarily for advanced graduate students working toward the doctoral degree; for graduate credit only. The number 9000 designates dissertation research.
## COURSE DESIGNATIONS AND RUBRICS

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### DESIGNATION DEPARTMENT

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### KEY TO COURSE INFORMATION

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ACCOUNTING - ACCT

2000 Survey of Accounting (3) Prereq.: ACCT 1000 or 2001 or equivalent. An introduction to financial accounting. Credit will not be given for both this course and ACCT 1000.

2001 Introductory Financial Accounting (3) Credit will not be given for both this course and ACCT 2000. Required of all students in College of Business Administration.

2021 Intermediate Accounting—Part I (3) Prereq.: ACCT 2000 or equivalent. Accounting principles and methods of accounting primarily concerned with financial data gathering and presentation in the form of external financial statements; legal and ethical obligations in financial reporting.

2021 Intermediate Accounting—Part II (3) Prereq.: grade of "C" or above in ACCT 2001 or equivalent. Accounting principles and methods of accounting primarily concerned with financial data gathering and presentation in the form of external financial statements; legal and ethical obligations in financial reporting.

3000 Introduction to Financial Accounting for Managers (3) Open only to M.B.A. students. Basic financial accounting methods and procedures; financial statement analysis; profitability; cash flows; and management uses of accounting information.

3021 Intermediate Accounting—Part II (3) Prereq.: grade of "C" or above in ACCT 2001. Continuation of ACCT 3021. Accounting and reporting partnerships, limited liability companies, and other business combinations; consolidated financial statements; segment reporting, foreign operations, and Securities and Exchange Commission regulations.

3221 Income Tax Accounting I (3) Prereq.: credit or registration in ACCT 2021. Credit will not be given for both this course and ACCT 3221. General course in taxation; emphasis on aspects of taxation affecting the individual, federal and state income tax, estate, inheritance, and gift taxes.

3222 Auditing (3) Prereq.: ACCT 3021. Nature of public accounting; auditing theory, procedures, and problems; internal control; internal auditing; development of audit programs; evidential matter; and reporting.

3233 Internal Auditing I (3) Prereq.: ACCT 2021. Internal auditing standards, ethics, concepts, audit techniques, and reporting practices.

4021 Cases in Accounting Policy (3) Prereq.: accounting major with senior standing. Case approach; integrates financial accounting, systems, auditing, income tax, and management uses of accounting information; emphasis on financial reporting to owners, the financial community, regulatory agencies, and the general public; relationship of accounting to the law.

4022 Advanced Accounting (3) Prereq.: ACCT 3023. Completion of the financial information; income tax; business combinations, consolidated financial statements, segment reporting, foreign operations, and Securities and Exchange Commission regulations.


4221 Income Tax Accounting II (3) Prereq.: ACCT 3221. Fundamentals of federal income taxation, with respect to partnerships, corporations, and sole proprietorships.

4213 Internship in Accounting (3) Prereq.: prior consent of department chair and approval of dean. At least 12 hours per week of learning experience under the general supervision of a faculty member and direct supervision of a professional in accounting. Pass-fail grading based on the faculty member’s evaluation, a written report by the professional in accounting, and ACCT 4213 credit.

4322 Advanced Auditing (3) Prereq.: ACCT 3222. Audit program development and planning, statistical sampling applications in auditing, auditing EDP systems, SEC reporting and extension services.

4324 Internal Accounting II (3) Prereq.: grade of "C" or above in ACCT 3223. Organization, operation, and quality control audits; organization theory.

4245 EDP Auditing (3) Prereq.: ACCT 3222. Electronic data processing (EDP) control, audit applications, and generalized audit software systems.

4251 Accounting Information Systems (3) Prereq.: ACCT 3222. Presentation of concepts of basic accounting information systems; emphasis on EDP systems and internal control of accounting systems.

4211 Governmental and Institutional Accounting (3) Prereq.: ACCT 2021. Accounting, budgeting, fiscal processes, and financial records of local, state, and federal governmental bodies and of private nonprofit institutions.

4501 Petroleum Accounting (3) Prereq.: ACCT 3011 and 7211. Accounting for oil and gas exploration and production; accounting for oil and gas leases, exploration costs, undeveloped properties, drilling and development operations; accounting for oil and gas assets and liabilities.

4501 Financial Accounting for Management (3) Prima­ rily for M.B.A. students; not open to accounting majors. Composition of financial statements; information processing and management; ethical implications of financial accounting information; legal and ethical obligations of the accounting profession.

7021 Advanced Theory of Accounting (3) Prereq.: ACCT 4022. Analysis of standard accounting systems; emphasis on EDP systems and internal control of accounting systems.

7024 Research Methodology in Accounting (3) Prereq.: ACCT 3024 and 4023. Research methodology in accounting.

7025 Monopoly and Tax Antitrust Legislation (3) Prereq.: ACCT 3024 and 4023. The current tax law, antitrust law, and monopoly legislation, and their effects on business enterprise.

7201 Advanced Accounting (3) Prereq.: ACCT 4021. Comparison of financial statements; emphasis on EDP systems and internal control of accounting systems.

7025 Monopoly and Tax Antitrust Legislation (3) Prereq.: ACCT 3024 and 4023. The current tax law, antitrust law, and monopoly legislation, and their effects on business enterprise.

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ADMINISTRATIVE AND FOUNDATIONAL SERVICES • EDAF

GENERAL COURSES

5880 Special Topics in Education (1-3) 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 the school organization.

7301 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 (1-4) Prereq.: consent of faculty and department. Directed individual study under the guidance of a graduate faculty member.

8000 Thesis Research (1-12 per sem.) “S”/“U” grading.

8900 Preissertation Research (1-9) Prereq.: consent of department.

9000 Dissertation Research (1-12 per sem.) “S”/“U” grading.

COUNSELOR EDUCATION

4360 Foundations, Functions, and Administration of Counseling and Guidance Services (3) V Multidisciplinary foundations of guidance; major guidance functions; administration of school counseling.

4361 Counseling Children (3) V Introduction to methods and procedures.

4364 Student Affairs in Higher Education (3) V Basic concepts and issues in the college student affairs field.

4365 Basic Course in Interpersonal Communication (3) F S 2 hrs. lecture; 2 hrs. lab. For teachers and prospective counselors.

4600 Counseling for Disabling Conditions (3) V Etiology, acute phase, and chronic state of disability; emphasis on teamwork among physicians, teachers, counselors, and paramedical specialists.

4601 Management of Counseling Services (3) S Case and program management procedures for client rehabilitation.

5300 Special Problems in Guidance and Counseling (3) V Prereq.: consent of instructor. 1 hr. lecture; 4 hrs. lab. May be taken for a max. of 9 hrs. of credit when topics vary.

7301 Orientation to the World of Work (3) V Prereq.: EDAF 7321. Also offered as VED 7301. For elementary school counselors. Basic concepts underlying orientation, awareness, and exploration phases of the career development process.

7302 Group Dynamics and Techniques in the Elementary School (3) V Prereq.: EDAF 4360 and 4361. For elementary school counselors. Dynamics of small group behavior; emphasis on classroom consultation and demonstration procedures.

7380 Group Techniques and Dynamics in Counseling (3) S

7381 Counseling Theory and Techniques (3) F Prereq.: EDAF 4365 and either EDAF 4360 or 4361, or 4601.

7382 Educational and Occupational Information (3) V See VED 7323.

7383 Analysis of the Individual (3) S

7384 Vocational Counseling (3) V Prereq.: EDAF 7332 or equivalent. Also offered as VED 7334. Materials and techniques of vocational counseling of adolescents and adults.

7360 Counseling Practicum in Elementary Schools (3-4) F S Prereq.: consent of instructor. 2 hrs. conf.; 6-18 hrs. lab in work setting. Supervised experience in elementary schools.

7362 Counseling Practicum in the Secondary Schools (3-4) F S Prereq.: consent of instructor. 2 hrs. conf.; 6-18 hrs. lab in work setting. Supervised experience in secondary schools.

7364 Counseling Practicum in Special Settings (3-6) F S Prereq.: consent of instructor. 1 hrs. conf.; 6-18 hrs. lab in work setting. Supervised experience in special settings (e.g., employment service, rehabilitation agency, mental health center, hospital, counseling center).

7365 Seminar in Counseling (3) Prereq.: EDAF 4365 and 7331; or equivalent. May be taken for a max. of 6 hrs. of credit when topics vary. Consultation with professor and peer in solving problems encountered in implementing counseling services.

7390 Advanced Counseling Theory and Techniques (3) S Prereq.: EDAF 7331 or equivalent. Theoretical perspectives and applications to individual, group, and family counseling.

7392 Advanced Vocational Counseling (3) V Prereq.: EDAF 7334 or equivalent. Also offered as VED 7392. Life career planning through vocational assessment and counseling.

7393 Advanced Group Counseling (3) S Prereq.: EDAF 7330 or equivalent. Small group counseling approaches.

7395 Family Counseling (3) F Prereq.: consent of instructor. Theory and practice of family therapy, including marital dynamics and the counseling process.

7396 Advanced Family Counseling (3) S Prereq.: EDAF 7395 or equivalent. Practice in assessing family dynamics; supervised experience in developing and implementing therapeutic interventions.

7397 Special Topics in Counseling (3) F S Prereq.: consent of instructor. 1 hr. lecture; 4 hrs. lab. May be taken for a max. of 6 hrs. of credit when topics vary.

7398 Field Experiences in Vocational Counseling (3) F S S Prereq.: EDAF 7332 and 7334. 1 hr. lecture; 4 hrs. lab. May be taken for a max. of 6 hrs. of credit. Also offered as VED 7398.

7399 Supervised Counseling Internship (4) F S S Prereq.: consent of instructor. 1 hr. conf.; 18 hrs. lab. May be taken for a max. of 8 hrs. of credit.

EDUCATIONAL ADMINISTRATION

4400 Introduction to Educational Administration (3) S Prereq.: Organization of educational systems; characteristics of economic, political, social, and cultural forces which affect the administration of American education.

4400 Problems of Educational Finance (3) F S Financing public elementary and secondary schools in terms of federal, state, and local sources of revenue, tax structures, budget preparation, and cost analysis.

7401 Administration of School Personnel (3) S Prereq.: Role of the school administrator. Planning, staff development, and employee relationships.

7402 Organizational Research in Educational Administration (3) Prereq.: EDAF 4400 and consent of instructor. Primarily for doctoral students in educational administration. Research, bibliography, and source materials; critical examination of organizational research studies.

7403 The Principalship in Elementary and Secondary Schools (3) F S Prereq.: EDAF 4400 or equivalent. Duties and responsibilities of the principal for organization, administration, and supervision of elementary and secondary schools.

7404 Internship in Educational Administration (3-6) F S S Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. of credit. For advanced graduate students qualified for internship in educational administration. Pass/fail grading.

7405 Supervision of Child Welfare and Attendance (3) V Prereq.: EDAF 4400 and 7450; or equivalent. Role and function of the supervisor of child welfare and attendance; seminars, field study, and individual research; legal provisions, history, and philosophy.

7407 Politics, Policy, and Administration in Education (3) Prereq.: EDAF 4400 and consent of instructor. Primarily for doctoral students in educational administration. Critical analysis of educational policy and its development.

7408 School and Community Relations (3) F S S Prereq.: EDAF 4400. Analysis of community demands on schools; organizational response from social science perspectives.

7409 Planning in Educational Leadership (3) Prereq.: EDAF 4400. Exploration of theories of leadership, leading and empowerment, critical thinking, reflective practice, and school administration; school reorganization, leadership in unique contexts, and directions in educational change and reform.

7410 Cultural and Political Issues in Urban School Leadership (3) Focus on the role of leaders, including the principal, in urban school systems. Also the impact of societal factors on school leaders in urban elementary and secondary schools.

7450 Supervision of Instruction in Elementary and Secondary Schools (3) S S Prereq.: Theories, principles, and practices concerning the role of the supervisor in today’s multicultural school settings.

7451 Supervision of Student Teaching (3) F S Prereq.: EDAF 4400. A supervised experience in evaluation of student teaching; participation in student conferences.

7800 Economics of Education (3) Prereq.: EDAF 7400 or equivalent. Introduction to human capital theory; emphasis on economic productivity, benefit-cost analysis; educational productivity, economic growth, and educational planning.

7802 Theory Development in Educational Administration (3) Prereq.: EDAF 4400, 7407, 7450, or equivalent; and consent of instructor. Primarily for doctoral students in educational administration. Critical analysis of research on the development of theory in educational administration.

7840 Educational Facility Planning (3) F S S Prereq.: For school administrators. Problems in school construction.


7890 Seminar: Educational Administration (1-3) Prereq.: master’s degree. May be taken for a max. of 9 sem. hrs. of credit when topics vary. Advanced topics in educational administration.

EDUCATIONAL FOUNDATIONS

4000 History of Education (3) F S S Prereq.: Development of formal and informal education in multicultural settings from early times to the present.

4001 History of American Education (3) F S S Prereq.: Cultural diversity and the response of educational thought and practice in America from colonial times to the present.

4002 Survey of Philosophy of Education (3) F S S Prereq.: Key theories of human nature, culture, and society, and their bearings on education.

4003 Cultural Pluralism in American Education (3) F S S Prereq.: Features of major cultures in American society; their impact on American education; historical approaches to educating persons of different cultures; changing roles of schools in responding to cultural pluralism.

7603 Seminar in Philosophy of Education (3) Prereq.: EDAF 4400. Theories of education and schooling with special focus on the context of pluralistic societies.

7604 Issues of Race and Gender in Higher Education (3) S S Prereq.: Theories of the higher education experiences of women, African-Americans, Asian-Americans, and Hispanics, focusing primarily on the period from the 1960s to the present.

EDUCATIONAL MEDIA

3500 Utilization of Instructional Materials (3) F S S Prereq.: Open only to candidates for teacher certification. Basic techniques for preparing effective instructional materials.

4501 Selection and Utilization of Educational Media (3) Prereq.: Selection of instructional technology; characteristics of media, objective specifications, and evaluation of instructional modules and systems.

4507 Computer Technology in Education (3) Application of computer technology in instructional design, data processing, classroom instruction, computer-aided instruction; educational psychology; instructional design, and instructional message design.

7240 Critical Analysis of Current Research in Educational Media (3) Prereq.: EDAF 4501 or equivalent. Application of current literature in the field; evaluation of current and needed research; systems approach to solving instructional problems.

7420 Administering Educational Media Programs (3) F S S Prereq.: EDAF 4501 or equivalent; and consent of instructor. Primarily for personnel administering media centers; development of equipment and materials, in-service training, program evaluation.

7502 Utilization of Instructional Television (3) F S S Prereq.: EDAF 4501. Utilization of television in instructional programs.

7503 Instructional Design and Development (3) F S S Prereq.: EDAF 4501. Application of principles of instructional systems to teaching and learning problems.
AFRICAN AND AFRICAN-AMERICAN STUDIES • AAAS


AGRICULTURAL ECONOMICS • AGECON

1563 Introduction to Agricultural Business (3) F Nature and acceptance of agriculture as an occupation of management and marketing concepts to selected agribusiness problems; exploring agribusiness management as a profession.

1563 Introduction to Agricultural Economics (3) S Role of agriculture in the general economy, economic principles applied to agricultural production, marketing, consumption, and policy problems.

1584 Introduction to Quantitative Methods (6) Prereq.: MATH 1431, AGECON 2003, EXST 2201. 3 hrs. lecture; 2 hrs. lab. Mathematical and statistical methods and techniques essential for economic analyses and interpretation of agricultural data.

2003 Agricultural Marketing (3) Prereq.: AGECON 2003. Credit will not be given for both this course and AGECON 4201. Theoretical concepts and empirical demand models relevant to the cultural consumption of commodity food and fiber marketing; systems approach to analysis of agricultural markets; emphasis on structure-conduct-performance and marketing strategies.

2003 Farm Management (3) Prereq.: AGECON 2003 or equivalent. Fundamental economic and business principles applied to a farm business; comprehensive and integrated treatment of management concepts for successful operation of a farm business.

2134 Production Economics in Agriculture (3) Prereq.: AGECON 2003 or equivalent. Economic decision making models under conditions of certainty; economic optimization, multiproduct production, time dependent planning; use of credit; and technical change in agriculture; introduction to decision theory.

4002 Agricultural Business Planning (2) S Prereq.: AGECON 2003 or equivalent. Concepts and procedures for development of data for agricultural business firm planning; applied budgeting and other procedures for effective management of agricultural business firms.

4134 Agricultural Business Management Decisions (3) F Prereq.: AGECON 1003 and EXST 2201. Identification of typical decisions of agricultural business firms; development of strategies, policies, and procedures which facilitate planning, organizing, directing, controlling, and coordinating functions within agricultural business firms.

5003 Natural Resource Economics (3) Prereq.: AGECON 2003 or equivalent. Economic rationale for collective action; public action in allocation of natural resources in agriculture; emphasis on economic efficiency, property rights, resource use, legal concepts, institutions, and project evaluation.

5003 International Trade and Development in Agriculture (3) F Prereq.: AGECON 2003 or equivalent. Structure, trends, and factors in exporting and importing regions and nations; policies of major agricultural trading nations and institutions; aid, development relationships, and current development trade policies.

5005 Internship (1-3) Prereq.: AGECON 2003 or equivalent and approval of department head. May be taken for a max. of 6 sem. hrs. of credit. Supervised career-oriented experience with a business or organization in the food and fiber system.

5003 Agricultural Law (3) F Principles of law and their application to agricultural business firms and institutions; legal processes and relationships relevant to agriculture; Louisiana Civil Code and statutes; federal law, including bankruptcy code; analysis and review of cases, documents, and legislation.

4013 Programming Procedures in Agriculture (3) F-E Prereq.: AGECON 2003 or equivalent and AGECON 3104. Application of linear, integer, quadratic, and dynamic programming techniques to solve problems in agricultural production, marketing, and resource use.

2421 Agricultural Marketing Theory (1) F Prereq.: AGECON 2003 or equivalent. Credit will not be given for both this course and AGECON 4013. Economic relationships existing among producers, middlemen, and consumers of agricultural products; emphasis on concepts of demand,
marketing margins, structures, supply, and agricultural market adjustments.

4211 Horticultural Marketing Systems (3) F Prereq.: credit or registration in AGEC 4201 or credit in AGEC 3203. Analysis of organization and operation of the marketing system; origin, seasons, grading, packing, storing, transporting, market facilities, market areas, strategies, and institutions.

4213 Grain Marketing Systems (1) F Prereq.: credit or registration in AGEC 4201 or credit in AGEC 3203. Structure and linkages among international and domestic markets; role of processing, storage, and transportation functions; stocks, utilization and pricing arrangements; institutional structure and industry problems.

4242 Economics of Milk Marketing Systems (2) S Prereq.: credit or registration in AGEC 4201 or credit in AGEC 3203. Framework for analyzing the milk production and marketing system; market channels, characteristics, institutions, and government regulations in pricing and marketing milk.

4251 Livestock and Meat Marketing Systems (1) F Prereq.: credit or registration in AGEC 4201 or credit in AGEC 3203. Consumer preferences and industry trends, structure, conduct, and performance of the livestock and meat marketing systems; linkages of marketing functions; impact of institutions and public policy on system efficiency.

4262 Aquacultural Marketing Systems (2) S Prereq.: credit or registration in AGEC 4201 or credit in AGEC 3203. Physical and economic factors affecting supplies of aquacultural products; marketing channels, consumer preferences, and policy issues relevant to aquacultural product markets.

4273 Agricultural Price Analysis (3) S Prereq.: AGEC 3203 or equivalent. Analysis of the processes of price discovery and price determination in agricultural input and output markets; emphasis on methods of price analysis and thesis preparation and process analysis of cyclical, trend, and seasonal movements in prices.

4403 Agricultural Finance (3) S Prereq.: AGEC 3003 or equivalent. Capital acquisition and use in the agricultural sector; cost and availability of credit; emphasis on financial management concepts for managing growth, leverage, liquidity, risk, and capital investment in agricultural business.

4413 Agricultural Commodity Exchanges and Futures Trading (3) F Prereq.: AGEC 3003 or equivalent. Functions, institutions, economic performance, and procedures involved in utilizing futures trading to minimize marketing risks in producing, processing, storing, buying, selling, and financing agricultural commodities.

4423 Cooperative Organization and Management (3) S Prereq.: AGEC 3003 or equivalent. Organization, operation, and management of cooperative businesses; comparison of organization and management of a cooperative with other forms of business organizations; role and evaluation of cooperatives in the agricultural business industry.

4433 Agricultural Business Planning, Management, and Policy (3) S Prereq.: AGEC 3413 or equivalent. Integration of management, marketing, and financial concepts for successful planning and implementation of agricultural business decisions; feasibility analysis, marketing policy, personnel policy, marketing mix, pricing decisions, market segmentation, marketing strategy, and financial policy.

4443 Farm and Rural Land Appraisal (3) S Prereq.: AGEC 3003 or equivalent. Not for graduate AGEC degree credit. Theory, methods, and procedures of real estate appraisal applied to rural property; terms in rural real estate values; factors influencing rural real estate values; approaches used in rural real estate valuation.

4453 Rural Resources and Community Development (3) S Prereq.: AGEC 3003 or equivalent. Characteristics of developed and undeveloped rural areas; analysis of economic and related problems and potential for development; public policy issues influenced by rural development.

4511 Seminar in Tropical Agricultural Resource Development (1) S Prereq.: AGEC 3003 or equivalent. Economics of tropical agricultural development; potential for developing world trade; potential for improving agricultural economies and standards of living in areas dependent on production of tropical agricultural products.

4533 Agricultural Situation and Policy (3) S Prereq.: AGEC 3003 or equivalent. Role of agriculture in the national economy; how agricultural policy decisions affect the general public; emphasis on economic impacts of policies on producers and consumers of agriculture and rural areas; effects of other nations' policies on American agriculture.

4700 Problems in Agricultural Economics (1-3) Prereq.: approval of department head. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Independent study under the direction of a faculty member or faculty committee.

7133 Advanced Statistical Methods in Agriculture (3) F Prereq.: AGEC 3203 or equivalent. Credit for registration. Application of advanced statistical tools to problems in agricultural economics; emphasis on the general linear model, including diagnostics, application, and interpretation.

7133 Research Methodology in Agricultural Economics (3) S-E Philosophy and scientific method in problem solving research; acquisition of reliable knowledge; application of research techniques for economic problems in agriculture.

7203 Advanced Agricultural Marketing Theory (3) F-O Prereq.: AGEC 7803. Basic and applied analytical procedures in marketing; quantitative methods; firm theory applied to marketing.

7203 Agricultural Production Economics (3) F Prereq.: AGEC 7803. Production principles applied to use of agricultural resources; analysis and interpretation of data; theory of the farm firm, including costs, uncertainty, and expectations.

7503 Natural Resource Economics (3) F-E Prereq.: emphasis on conservation, property rights, resource policy, resource valuation.

7603 Advanced Agricultural Policy (3) S-O Prereq.: AGEC 7803. Development of agricultural policy; emphasis on policy on resource productivity, accomplishments, and consequences of policy on resource productivity.

7613 International Agricultural Trade (3) S Prereq.: AGEC 7803 or equivalent. International economic trade theory and special references to trade in agricultural products.

7703 Independent Study (1-3) F-S,Su Prereq.: AGEC 7803 and graduate committee approval prior to enrollment. May be taken for a max. of 6 sem. hrs. when topics vary. Independent study of relevant subject matter areas in agricultural economics.

7710 Advanced Topics in Agricultural Economics (1-3) F,S,Su. Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary. New and specialized topics in agricultural economics.

7803 Agricultural Economic Applications (3) Prereq.: ECON 7610 and 7700. Applications of economic theory to issues in agricultural production, consumption of agricultural goods, and natural resource management.

5000 Thesis Research (1-2 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-2 per sem.) "S"/"U" grading.

AGRICULTURAL EDUCATION - AGED

4077 Development of Agriculture in America (3) F Organization and development of agriculture in America from colonial times to the present.

4819 Special Topics in Agricultural Education (1-3) V May be taken for a max. of 6 hrs. credit when topics vary. Individual and group study of selected topics under the direction of a faculty member.

7016 Foundations of Agricultural Education (3) S Events and organizations which contributed to the development of agricultural education.

7112 Program Development in Agricultural Education (3) F-E Development of curriculum; organization and use of committees; organization of facilities; utilization of the FFA in instruction.

7123 Pedagogical Advances in Agricultural Education (3) Y Development in education; their impact on agricultural education.

7128 Teacher Education (3) A-O Development and functions of the comprehensive agricultural teacher education program.

7414 Androgyny in Agricultural Education (3) S Principal approaches and正在发展中的农业教育项目。

7716 Organization, Administration, and Supervision of Agricultural Education (3) S-O Theory, principles, and practices of organization and supervision of educational teaching.

7812 Technological Advances in Agricultural Education (3) Y Scientific developments in agriculture; their impact on programs in agricultural education.

7816 Advanced Agricultural Education Seminar (1) F,S,Su May be taken for a max. of 6 hrs. of credit. A minimum of 3 sem. hrs. required at master's level; minimum of 2 additional hrs. required at doctoral level. Current professional educational problems in vocational agriculture.

8000 Thesis Research (1-2 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-2 per sem.) "S"/"U" grading.

AGRICULTURE - AGRO

1805 Soils and the Environment (3) F,S Also offered as ENVS 1051. Complexity and diversity of the earth's land surface; soils and soil processes, reclaimation of mismanaged soils, and use of recyclable waste materials as soil amendments.

2851 Soil Science (4) Prereq.: CHEM 1002 or 1212 or equivalent. Credit for 4 hrs. less 2 hrs. Lab. Principles of soil science; properties of soils related to plant growth and environment.

3601 Principles of Crop Production (3) F Prereq.: PHIO 1002 or equivalent. Crop production techniques related to each major crop group.

3811 Fall Crop Production Laboratory (1) F Prereq.: credit or registration in AGRO 3000. 2 hrs. lab. Field and laboratory experiences designed to provide an understanding of the growth and practices involved in the production of soybeans, cotton, and sugarcane.

3812 Spring Crop Production Laboratory (1) S Prereq.: AGRO 3000. 2 hrs. lab. Field and laboratory experiences designed to provide an understanding of the growth and practices involved in the production of rice, corn, and sorghum.

3840 Soil Conservation (2) F Prereq.: AGRO 2051. Causes and effects of soil erosion and sedimentation; their effects on the quality of the environment; methods of reducing soil erosion; land management principles.

3900 Agronomic Internship (3) F,S,Su Prereq.: overall gpa of 2.50 and written consent of instructor. May be taken for a max. of 6 sem. hrs. of credit. Work experience in crop or animal related areas, consisting in acceptable written reports and a seminar presentation.

4005 Forage Crops and Pasture Management (4) S-J S hrs. lecture; 2 hrs. lab. Forage crops and their adaptation, production, establishment, utilization, and management in pastures.

4052 Soil Fertility and Soil Management (4) S Prereq.: AGRO 2051; 3 hrs. lecture; 2 hrs. lab. Factors affecting soil fertility, soil testing, and soil management.

4055 Chemical Properties of Soil (4) F Prereq.: AGRO 2051 and CHEM 2552. 3 hrs. lecture; 3 hrs. lab. Chemical and mineralogical properties of soils; their effect on non-point source pollution from agriculture; effects of non-staple elements in soil.

4056 Microbial Ecology and Nutrient Cycling in Soils (4) S Prereq.: AGRO 2051 and MBIO 2051. 3 hrs. lecture; 3 hrs. lab. Also offered as MBIO 4156. Microorganisms in terrestrial and aquatic environments and biogeochemical processes influencing C, N, and P cycling; role of microorganisms in biogeochemical nitrogen fixation, plant nutrient availability, formation of soil humus, and decomposition of organic and inorganic materials; impact of microbial processes on environmental quality.

4058 Soil Morphology and Classification (4) F 2 hrs. lecture; 1 hr. lab. Morphology, morphology, processes related to classification and soil taxonomy; relationships of soil process and classification to environmental quality.
317 Architecture and Illumination (3) Prereq.: ARCH 2127. Principles and practices of architectural acoustics and lighting systems; design of building electrical transmisión systems.


320 Hands on Materials (3) V Prereq.: ARCH 2150. 6 hrs. studio. Design and physical manipulation, construction, and modification components made primarily (but not necessarily exclusively) of steel.

321 Architectural Contract Documents—I (Drawings) (3) Prereq.: ARCH 2154. 6 hrs. studio supported by lecture. Development of clear, concise construction documents; advanced production systems and interrelationships of drawings; composite drafting techniques and reproduction systems; reading and comprehension of architectural working drawings; cross referencing and coordination of environmental control systems in construction documents; designing design specification and environmental factors.

322 Architectural Contract Documents—II (Specifications) (3) Prereq.: ARCH 2154. 6 hrs. studio. Organization and preparation of specifications required to form the basis of a construction contract between the owner and a building contractor.

4090 Restoration Studies (3) 3 hrs. lecture; 2 hrs. studio. Theory and methodology of architectural restoration; tools and techniques of restoration.

4131 Urban Design and Planning (3) S Prereq.: ARCH 3153 or equivalent. Fundamentals of urban design and planning.

4143 History of Modern Architecture—II (3) F Prereq.: ARCH 2141 and 2142; or equivalent. Development of the modern movement in architecture from the late 18th century to the present.

4144 History of Modern Architecture—II (3) S Prereq.: ARCH 4143 or equivalent. Continued development of modern architecture from the late 18th century to the present.

4145 Louisiana and Gulf Coastal Architecture (3) History and development of Louisiana and gulf coastal architecture from the 17th century to the present.

4162 Project Management—II (3) Subject matter and vocabulary; technical problems of finance, real estate, and law relative to development projects.

4163 Project Management—II (3) Prereq.: ARCH 4162. Application of time and resource analysis techniques to the solution of problems in architecture, construction, and urban and regional planning; management of construction projects; computer applications.

4214 Architectural Synthesis (4) F Prereq.: completion of all required fourth-year course work or consent of school director. 8 hrs. studio. Individually prescribed advanced architectural study.

4218 Architectural Synthesis (8) F Prereq.: completion of all required fourth-year course work or consent of school director. 16 hrs. studio. Individually prescribed advanced architectural study.

4221 Selected Topics in Architecture (3) V May be taken for a max. of 9 hrs. of credit with school approval. Studies in various aspects of art and architectural components.

4314 Architectural Synthesis (4) S Prereq.: completion of all required fourth year course work or consent of school director. 8 hrs. studio. Individually prescribed advanced architectural study.

4318 Architectural Synthesis (B) F Prereq.: completion of all required fourth year course work or consent of school director. 8 hrs. studio. Individually prescribed advanced architectural study.

4353 Principles and Practices of Land Development (3) Prereq.: ARCH 4162 or IE 3201 or equivalent. Environmental, economic, physical, and financial aspects of land development; population growth; income and employment projections; regression and correlation of land values; land ownership, titles, and contracts; direct and indirect infrastructure; budget and marketing structure; pro forma cash flow and rate of return analyses.

44141 Aesthetics of Architecture (3) Prereq.: consent of instructor. Development of aesthetic theory through architectural literature.

4700 Research Methods (3) Major research methods in architectural history; hypothesis formulation and testing, data gathering and analysis.

7040 Structural Concepts and Forms (3) Relationship between aesthetic and structural properties of prototype building forms and basic types of total system behavior.

7500 Project Planning/Management (3) Relationship of the construction process and project planning to building projects of various scales and complexities.

7700 Community Design Studies (3) Definition and application of community design processes; relationships between community elements and the design process; case study approach.


7800 Seminar in Architecture (3) May be taken for a max. of 9 hrs. of credit when topics vary. Selected topics in architecture.

7900 Architectural Studies/Research (3) Prereq.: written consent of School of Architecture Graduate Committee. Selected readings and/or research under the supervision of graduate faculty.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

ART + ART
Registration for all multiple-credit courses taken for more than three credits in a given semester will require the prior permission of the instructor. Multiple credit courses are designated with an asterisk (*) following the course number.

GENERAL COURSES

1001 Introduction to Fine Arts (3) Fundamental problems and methods of art, including: aesthetics, art history, art criticism, modern art and the creative process.

1011 Art Structure (3) 6 hrs. studio. Disciplines in art, with practice in the various media.

1012 Three-Dimensional Design (3) 6 hrs. studio. Fundamentals of three-dimensional design; studio experiences in various materials.

2000 Computer Art—I (3) Prereq.: ART 1011 or equivalent. 2 hrs. lecture; 2 hrs. studio. Primarily for students majoring in art. Introduction to computer art.

2055 Computer Art—Ii (3) Prereq.: ART 2050 or equivalent. 2 hrs. lecture; 2 hrs. studio. Primarily for students majoring in art. Continuing course of ART 2050.

4200 Advanced Computer Art I (3) Prereq.: ART 2055 or equivalent and knowledge of a high-level programming language, 2 hrs. lecture; 2 hrs. studio. Primarily for students majoring in art. Advanced work in computer art.

4505 Advanced Computer Art II (3) Prereq.: ART 4050 or equivalent. 2 hrs. lecture; 2 hrs. studio. Primarily for students majoring in art. Continuing of ART 4050.

7041 Graduate Seminar: Three-Dimensional Art (1) May be taken for a max. of 6 hrs. of credit. Seminar with the three-dimensional art faculty for criticism and discussion.

7042 Graduate Seminar: Visiting Artist (1) May be taken for a max. of 3 hrs. of credit. Pass/fail grading. Seminar with visiting artists and discussions.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

PRINTMAKING

1361 Introduction to Intaglio (3) 6 hrs. studio. Basic intaglio techniques; work in black and white.

1371 Introduction to Lithography (3) 6 hrs. studio. Planographic printing from stones in black and white.

2362 Intermediate Intaglio (3,6,9) Prereq.: ART 1361. 6, 12, or 18 hrs. studio. May be taken for a max. of 9 sem. hrs. of credit. Advanced intaglio techniques.

2372 Intermediate Lithography (3,6,9) Prereq.: ART 1371. 6, 12, or 18 hrs. studio. May be taken for a max. of 9 sem. hrs. of credit. Planographic printing from stones and plates; use of black, low and high white. 

3461 Advanced Intaglio (3,6,9,12) Prereq.: consent of instructor based on review of student's portfolio. 6, 12, 18, or 24 hrs. studio. May be taken for a max. of 12 sem. hrs. of credit. Advanced intaglio techniques.

3466 Special Studies in Printmaking (3,6,9,12) Prereq.: consent of instructor based on review of student's portfolio. 6, 12, 18, or 24 hrs. studio. May be taken for a max. of 12 sem. hrs. of credit. Planographic printing from stones and plates; experimental printing.

7300 Graduate Printmaking (3,6,9,12) 6, 12, 18, or 24 hrs. studio. May be taken for a max. of 36 sem. hrs. of credit.

ART HISTORY

1440 Historical Survey of the Arts (3) Prehistoric, Near-Eastern, Greek, Roman, and medieval art.

1441 Historical Survey of the Arts (3) Renaissance to modern art.

2401 Art of the Ancient Near East and Egypt (3) Development of architecture and visual culture in the Near East and Egypt over three millennia; influences of one culture on another and subsequent contributions to Western art.

2411 Oriental Art (3) Asian art; the arts of China, India, and Japan in relation to religious and philosophical beliefs which affected their production.

2469 Italian Renaissance (3) Italian painting, sculpture, and architecture from 1250-1600; emphasis on Giotto, Masaccio, Donatello, Michelangelo, and Leonardo da Vinci.

2470 Survey of 20th Century Art (3) Modern art.

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

4404 The Art of Rome (3) Development of architecture, sculpture, and painting from Rome's early beginnings (600-200 B.C.) to the end of the 4th century.

4405 Early Christian and Byzantine Art (3) Painting, sculpture, and architecture of the Christian era through 12th-century Byzantium.

4406 Romanesque Art (3) Architecture, sculpture, manuscripts, and painting from the 9th through the 12th centuries in France, Germany, and England.

4409 Early Greek Art (3) Greek art to the time of the Persian Wars.

4410 Later Greek Art (3) Greek art from the time of the Histories to the age of Augustus.

4412 Gothic Art (3) Architecture, sculpture, and painting of Northern Europe from 1150 to 1450.

4413 Italian and Netherlandish Painting (3) Art of the Low Countries and Germany in the 15th and 16th centuries; emphasis on Limburgs, van Eyck, van der Weyden, Bosch, Düren, Gutenfeld, Cranach, Altdorfer, and Bruegel.
2544 Letter Forms (3) Prereq.: ART 1551, 6 hrs. studio. Drawn letter form studies; traditional and contemporary variations.

2552 Color Design (3) Color as a functional design element in painting and visual communication.

2554 Introduction to Graphic Design (3) 6 hrs. studio. Agency-studio procedures and techniques (thumbnail sketches, layout, and comprehensives); design problems, with emphasis on letter forms commonly used in advertising/graphic design.

2555 Color in Lighting (3) 6 hrs. studio. Color effects of light on transparent, translucent, and opaque materials; color light mixing systems; display effects available through colored lighting.

2644 Basic Graphic Abstraction (3) Prereq.: ART 1551 and 4557. 6 hrs. studio. Simplication of pictorial images as graphic elements.

3524 Production Techniques (3) Prereq.: ART 2544. 6 hrs. studio. Basic studio and agency techniques related to experimentation problems in the graphic design profession; typsetting methods, basic printing processes, and paste-up techniques.

3544 Typography (3) Prereq.: ART 2544. 6 hrs. studio. Developing and understanding typographic skills through functional and aesthetic use of type.

3554 Intermediate Graphic Design (3) Prereq.: ART 2554, 6 hrs. studio. Exploration of media and their relation to graphic design; copypresentation and specifications.

3564 Illustration for the Graphic Designer (3) Prereq.: ART 3554, 6 hrs. studio. Techniques of illustration; problem-solving and exercises.

4514 Experimental Design (3) Prereq.: consent of instructor based on review of student's portfolio. 6 hrs. studio. Advanced experimental work in a predetermined area of specialization.

4534 Photo-Design Application (3) Prereq.: ART 3554, 6 hrs. studio. Investigation of photography as an illustration technique through a series of experimental problems; its application to layout and product illustration.

4541 Special Studies in Graphic Design (3) Prereq.: consent of instructor based on review of student's portfolio. 6 hrs. studio. Advanced work in a predetermined area of specialization.

4544 Advanced Production Techniques (3) Prereq.: ART 3524, 6 hrs. studio. Advanced techniques and practical experiences in graphic design.

4551 Design (3) 6 hrs. studio. Problems in design related to the professional design field; methods of reproduction, exhibition techniques, and industrial and product design.

4552 Product Design (3) Prereq.: consent of instructor. 6 hrs. studio. Technology, needs, and market related to the mass-produced article; materials research; human engineering; prototype construction; presentation methods; field trips.

4555 Advanced Graphic Design (3) Prereq.: ART 3554, 6 hrs. studio. Principles of visual communication through graphic design; problems in design theory and application.

4556 Advanced Design (5) Prereq.: 3 sem. hrs. in advanced design course work and consent of instructor based on review of student's portfolio evaluation. 10 hrs. studio. Advanced studio work in a predetermined area of design specialization.

4557 Advanced Project in Graphic Design (5) Prereq.: 3 sem. hrs. in advanced design course work and consent of instructor based on student's portfolio evaluation. Advanced studio work in a predetermined area of design specialization.

4564 Senior Graphic Design (3) Prereq.: ART 4555, 6 hrs. studio. Design projects investigating problems of visual communication; individual and group projects with professional-level presentations.

4574 Graphic Design Synthesis (3) Prereq.: consent of instructor based on review of student's portfolio. 6 hrs. studio. Project or internship approved by graphic design faculty committee.

7551, 7552 Graduate Research in History of Art (3,3) Each course may be taken for a max. of 6 hrs. of credit with consent of instructor, and 9 hrs max.

7490 Independent Study in Art History (1-3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit when topic varies.

7490 Art Theory and Criticism (3) Critics; building of art collections from ancient to modern times.

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 topic varies. Advanced topics in art history.

744, 7442 Graduate Research Seminar in History of Art (3,3) Each course may be taken for a max. of 6 hrs. of credit with consent of instructor, and 9 hrs max.

7490 Independent Study in Art History (1-3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit when topic varies.

GRAPHIC DESIGN

1551 Basic Design (3) 6 hrs. studio. Design as a basic problem-solving creative activity; project dealing with mechanical and communicative utility.

1661 Introduction to Ceramics I (3) 6 hrs. studio. Problems in pottery, glazing, and kiln firing.

1662 Introduction to Ceramics II (3) Prereq.: ART 1661. 6 hrs. studio. Problems in ceramic forming techniques, mixing of clays and glazes, and kiln firing.

2614* Intermediate Ceramics (3,6) Prereq.: ART 1662. 6 or 12 hrs. studio. May be taken for a max. of 9 sem. hrs. of credit. Studio problems in ceramics; formulation of clay bodies and glazes; theories of kiln operation and maintenance.

4641* Special Studies in Ceramics (3,6,9) Prereq.: 6 sem. hrs. of credit in ART 4651 and permission of instructor. May be repeated for a max. of 12 sem. hrs. of credit. 6, 12, 18 hrs. studio. Advanced studio work in predetermined area of specialization.

4661* Advanced Ceramics (3,9,4) Prereq.: ART 2661 or approval of portfolio by ceramics faculty. 6, 12, or 18 hrs. studio. May be taken for a max. of 24 sem. hrs. of credit. Studio problems in ceramics.

4691 Senior Project (3) Prereq.: 12 sem. hrs. of credit in ART 4651. 6, 12, 18, or 24 hrs. studio. May be taken for a max. of 36 sem. hrs. of credit.

JEWELRY/METALSMITHING

2655 Basic Jewelry/Metalsmithing (3) 6 hrs. studio. Piercing, construction, cold connection, soldering, forming, and stone setting; studio problems in bronze, copper, and sterling silver.

2656 Jewelry/Metalsmithing: Casting (3) Prereq.: ART 2655 or equivalent. 6 hrs. studio. May be taken for a max. of 6 hrs. of credit. Production of patterns and foundry procedures; casting studio work in bronze, sterling silver, and gold.

4561* Special Studies in Jewelry/Metalsmithing (3) Prereq.: consent of instructor. 6 hrs. studio for each 3 sem. hrs. of credit. May be taken for a max. of 6 sem. hrs. of credit. Studio work in a predetermined area of specialization; emphasis on a single technique or material.

4655* Advanced Jewelry/Metalsmithing (3) Prereq.: ART 2655 or equivalent. 6 hrs. studio for each 3 sem. hrs. of credit. May be taken for a max. of 6 sem. hrs. of credit. Advanced studio problems in forging, forming, reproducing, production processes, and construction techniques; emphasis on historical and contemporary jewelry/metalsmithing.

SCULPTURE

1761 Sculpture—(3) 6 hrs. studio. Development of three-dimensional forms; various theories, methods, and materials.

1762 Sculpture—II (3) 6 hrs. studio. Studies in sculpture using appropriate materials and processes.

2761* Intermediate Sculpture (3,6,9) Prereq.: consent of instructor based on review of student's portfolio. 6, 12, or 18 hrs. studio. May be taken for a max. of 9 sem. hrs. of credit. Studio problems in carving and nonfigurative sculpture, using various materials and methods.

4741* Special Studies in Sculpture (3,6,9) Prereq.: consent of instructor based on review of student's portfolio. 6, 12, or 18 hrs. studio. May be taken for a max. of 9 sem. hrs. of credit. Studio problems in carving and nonfigurative sculpture, using various materials and methods.

4760* Advanced Sculpture (3,9,12) Prereq.: consent of instructor based on review of student's portfolio. 6, 12, 18, or 24 hrs. studio. May be taken for a max. of 15 sem. hrs. of credit. Studio problems with personal choice of concept, materials, and methods.

4762 Senior Project (3) 6 hrs. studio. Proposal and execution of independent sculpture project under direction of major.

7790 Graduate Sculpture (3,6,9,12) 6, 12, 18, or 24 hrs. studio. May be taken for a max. of 36 sem. hrs. of credit.

PAINTING AND DRAWING

1847 Drawing and Composition (3) 6 hrs. studio. Basic principles of observation; emphasis on graphic analysis and delineation; structural and pictorial methods.

1848 Drawing and Composition (3) 6 hrs. studio. Studies from the live model; introduction of graphic representation, structure, and form.

1849 Advanced Studies in Painting to III (3) 6 hrs. studio. Advanced studio problems in painting. Basic studio practice and theory in painting: traditional and modern materials and terminology; value and color experiences involving simple forms in space.

2870 Intermedia: Image, Concept and Composition (3) Prereq.: ART 1848. 6 hrs. studio. Imaginative composition utilizing the figure, still-life, and landscape forms.
ASTRONOMY • ASTR

1101 The Solar System (3) Prereq.: MATH 0902 or equivalent or an ACT mathematics score of at least 21. Fundamental principles of the solar system.

1102 Stellar Astronomy (3) Prereq.: MATH 0902 or equivalent or an ACT mathematics score of at least 21. Fundamental principles of stellar astronomy.

1104 Astronomy Laboratory (1) 2 hrs., lab. Accompanies ASTR 1101. Visual observations of positions of celestial bodies with applications to star charts and globes; visual and photographic observations with 116 inch refractor and 4-inch reflector; principles of time determination and position determination.

1109 Astronomy Laboratory (1) 2 hrs., lab. Accompanies ASTR 1102. Visual and photographic observations of sun, star, and nebulae with 116 inch refractor and 4-inch reflector; analysis of light from terrestrial and celestial sources; interpretation of astronomical data.

2801 Current Topics in Astronomy and Astrophysics (3) S Prereq.: ASTR 1101, 1102. Primarily for non-science students. Topics of current interest in astronomy; recent topics include extraterrestrial intelligence, black holes, exploration of the solar system.

4221, 4222 Introductory Astrophysics (3,3) V Prereq.: PHYS 1200 or 2102 or consent of instructor. ASTR 4221 is prerequisite for ASTR 4222. Sun, stars, and stellar systems; results and problems of modern astrophysical research. 4221 Modern Observational Techniques (3) V Prereq.: ASTR 1101, 1102 and MATH 1522. 1 hr. lecture; 6 hrs. lab. Modern astronomical observations: the telescope, astronomical photography, spectroscopy and photoelectric observations and reductions.

4750 Special Topics in Observational Astronomy (V) Prereq.: ASTR 1102. 3 sem. credit. Topics of current interest in modern astrophysics; emphasis on practical problem solving.

6101 Astronomy for Teachers (4) S Prereq.: for teachers and students in the College of Education. Cannot be taken for degree credit by physics majors. General astronomy including the solar system, stellar astronomy, and stellar systems. 7741, 7742 Stellar Astrophysics (3,3) F,S ASTR 7741 is prerequisite for 7742. Also offered as PHYS 7741, 7742. Application of physical principles to study of stars; spectroscopy, stellar atmospheres, stellar structure, and stellar evolution.

7751, 7752 Galactic Astrophysics (3,3) F,S ASTR 7751 is prerequisite for 7752. Also offered as PHYS 7751, 7752. Application of physical principles to study of galaxies; interesting regions of interstellar structure and stellar motion, galaxies, and cosmology.

7777 Seminar in Astronomy and Astrophysics (1-6) V May be taken for a max. of 6 sem. hrs. of credit. Also offered as PHYS 7777.

7783 Topics in Astronomy and Astrophysics (V) V May be taken for a max. of 6 hrs. of credit. Also offered as PHYS 7783.

BASIC SCIENCES • BASC

6001 Topics in Physical Science for Elementary School Teachers (2) S only May be taken for a max. of 12 hrs. of credit when topics vary.

6002 Topics in Biological Science for Elementary School Teachers (8) S, 4 hrs. prerequisite: MATH 1063. May be taken for a max. of 12 hrs. of credit when topics vary.

7000 Methods of Instruction in College Life Science Laboratories (1) 2 hrs. credit. Individual practice of life science laboratory education at the college level.

BIOCHEMISTRY • BCH

Laboratory Expenses: Students must make laboratory work deposits of $25. Information and forms for deposits will be provided at the first meeting of the laboratory. Students unable to show a receipt for their deposit by the end of the second class period will not be permitted to continue in the course.

Prerequisites: All prerequisites in biochemistry courses should be rigidly observed. Corequisites: A student may not continue in a course if the corequisite course is dropped prior to the last day of the midsemester examination period.


2014 Elementary Biochemistry Laboratory (1) F,S Prereq.: one semester of chemistry laboratory, CHEM 2000, and credit or registration in BCH 2083, 3 hrs. lab. Not for degree credit for students in the College of Basic Sciences. Deposit required.

2280 Introduction to Biochemical Research (1) V Prereq.: 8 sem. hrs. of chemistry, Pass-fail grading. Current research problems actively pursued by biochemistry faculty.

2390 Research Internship (1-3) S,F,Su May be taken for a max. of 6 hrs. of credit; permission to register may be obtained from the department head. Individual reading, conference, and laboratory work on biochemical problems.

4060 Physical Chemistry (3) CHEM 2261; PHYS 2002, and MATH 1550. Theoretical chemistry, emphasis on solutions, equilibria, and topics of interest to students in agricultural and biological sciences.

4087 Basic Biochemistry (3) F,S Prereq.: CHEM 2252. Credit will be given for only one of the following: BCH 4087 or 4093. Cellular macromolecules; production and functions of enzymes; interpretation of metabolic pathways and their control; molecular biology.

4093, 4094 General Biochemistry I (3) F, I, T, S Prereq.: CHEM 221G. Credit will not be given for both this course and BCH 4087. Principles of biochemistry; biochemistry of the genetic code; protein chemistry; enzymology; primary, secondary, and tertiary metabolites; energetics; cycles of intermediary metabolism; biosynthesis and biodegradation; structure of amino acids, carbohydrates, lipids, and nucleic acids.

4385 Biochemistry Laboratory (3) F,S Prereq.: credit or registration in BCH 4087 or 4093, 1 hr. lecture; 5 hrs. lab. Techniques including chemistry of amino acids and proteins; turnover, immunology, kinetics of enzyme activity; protein biosynthesis; nucleic acid chemistry; properties and restriction mapping of plasmids and recombinant DNA; spectroscopy, chromatography, chemical purification, centrifugation, and mass spectroscopy.

4390 Information Retrieval in the Sciences (1) S,F,Su or senior graduating student or consent of instructor. Modern methods of information retrieval from abstracts, scientific research literature, published computerized index programs, and key-word citation systems; proper techniques in data processing.

4555 Physical Chemistry of Macromolecules (3) V See CHEM 4505.

4569 Biophysics of Macromolecules (3) V Prereq.: BCH 4087 or 4093 and BCH 4001 or credit or registration in CHEM 3492. Complements material in BCH 4555. Theory and application of physical techniques to the study of biopolymer macromolecules: mass spectrometry, absorption and fluorescence, circular dichroism, IR, NMR, X-ray diffraction); helix-coil theory; theories of ligand binding.

7010 Plant Molecular Biology (3) F Prereq.: PBIOL 3060, BCH 4091, 4094 or equivalent. See PMB 7010 and PUB 7010.

7163 Advanced Technology of Molecular Biology I (3) S Prereq.: credit or registration in BCH 7210. BCH 7210, 1 hr. lecture. Students may register in BCH 7163, 7164, or 7165. Methods in recombinant DNA procedures, including isolation of DNA from prokaryotic or eukaryotic sources; DNA cloning, restriction mapping, and sequence determination.

7164 Advanced Technology of Molecular Biology II (3) V Prereq.: credit or equivalent in BCH or MBIO 7163. J hrs. lecture, 6 hrs. lab. Same as MBIO 7164. Special projects in experimental molecular biology.
eral supervision by a faculty member; direct supervision by a business professional. Pass-fail grading based on a written evaluation by the professional supervisor, a written report by the student, and the faculty member's evaluation.

7270 Seminar in New Developments in Business Administration (3)

7900 Human Factors in Business and Industry; Current Problems (3) May be taken for a max. of 6 hrs. of credit when topics vary. Human factors related to business problems.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Predissertation Research (1-9) May be repeated for credit.

8900 Dissertation Research (1-12 per sem.) "S"/"U" grading.

BUSINESS COMMUNICATION • BCOM

5200 Executive Communication (3) Developing and applying communication strategies; analysis of business situations and development of appropriate strategies; written, oral, and interpersonal applications; impact of technologically mediated communication.

BUSINESS EDUCATION • BUED

1001 Keyboarding (1) 2 hrs. lab. For those with no previous instruction in typewriting. Development of touch system of typing.

1003 Keyboarding Applications (2) Prereq.: BUED 1001 or equivalent. 1 hr. lecture; 2 hrs. lab. Improving speed and accuracy in the basic formatting of business documents; letters, memos, and reports.

2001 Document Production (3) Prereq.: BUED 1003 or equivalent. 2 hrs. lecture; 2 hrs. lab. Introduction to word-processing concepts and applications; formatting advanced and complex business documents.

2071 Business Communication (3) Prereq.: ENGL 1002. Communication theory and its application to business; basic forms of business communication.

2100 Beginning Shorthand (3) 2 hrs. lecture; 3 hrs. lab. Building dictation speed; shorthand principles.

2101 Intermediate Shorthand (3) 2 hrs. lecture; 3 hrs. lab. Building dictation speed; shorthand principles.

2620 Practicum in Business and Office Education (2) One-hour weekly seminar with instructor to discuss topics relative to student's job. Actual office experience of at least 10 hrs. per week providing on-the-job training in a clerical, secretarial, or bookkeeping position.

2621 Practicum in Distributive Education (2) One-hour weekly seminar with instructor to discuss topics relative to student's job. Actual job experience of at least 10 hrs. per week in a selling position in an approved retail establishment.

3000 Word Processing (3) Prereq.: BUED 2001 or equivalent. 2 hrs. lecture; 2 hrs. lab. Word processing concepts and skills, systems, procedures, equipment, and careers.

3100 Advanced Shorthand (3) 2 hrs. lecture; 3 hrs. lab. Continuation of BUED 2101. Emphasis on development of speed in dictation and transcription.

3200 Records Management (3) Principles of records creation, retention, transfer, and disposal; organization and management of stored records; coding, microfilming, and retrieval of information; manual, mechanical, and computer means of storing and retrieving information.

3400 Office Management (3) Facilitating office work through management of environment, organization, communication, personnel, systems, control, and management factors.

3500 Administrative Assistant Procedures (3) Prereq.: BUED 2001 or equivalent. Responsibilities of administrative support personnel: skills needed for supervision, decision making, and human relations; planning, organizing, and disseminating information.

4150 Teaching Cooperative Education (3) V Organization and administration of cooperative education programs in public secondary education; historical foundations; relevant federal legislation.

4252 Teaching Information Processing (3) Prereq.: BUED 2000 and 2001; EXT 2000. 2 hrs. lecture; 2 hrs. lab. Teaching basic concepts of information processing; use of microcomputers to process information and produce documents.

4859 Special Topics in Business Education (1-3) V May be repeated for credit with a change of course title. 3 hrs. to 6 hrs. of credit needed to typify advances and technological advances in business education; individual or group study under the direction of a faculty member.

7056 Foundations of Business Education (3) V Historical foundations; relevant state and federal legislation; organization and administration of business education in public secondary education.

7255 Improvement of Instruction in Keyboarding, Word Processing, Shorthand, and Clerical Practices (3) V Techniques and strategies related to the teaching of clerical personnel.

7256 Improvement of Instruction in General Business, Accounting, and Bookkeeping (3) V Techniques and strategies related to the teaching of accounting and general business.

CHEMICAL ENGINEERING • CHE

2171 Chemical Engineering Fundamentals: Material and Energy Balances (3) FS Prereq.: MATH 1550 and CHEM 1202. Emphasis on basic principles and concepts used to make chemical engineering calculations; techniques used in these calculations applied to typical industrial problems.

2176 Mathematical Modeling of Chemical Engineering Systems (3) FS Prereq.: CHEM 2065 and CSC 1163 or equivalent. Basic concepts and techniques in analysis of engineering processes; mathematical description of physical systems and application of modern computer to solution of resulting equations.

3172 Chemical Engineering Thermodynamics (3) F Prereq.: CHE 2171 and credit or registration in CHEM 3490. An introduction to chemical engineering applications of thermodynamics; emphasis on flow processes and real gas thermodynamics.

3173 Heterogeneous Equilibrium (3) S Prereq.: CHE 3172. Theory of vapor-liquid, liquid-liquid, and solid-liquid equilibrium, including the effects of chemical reactions; application of thermodynamic theory to the correlation of equilibrium data and the prediction of equilibrium compositions.

3249, 3250 Engineering Practice (1-3, 1-3) Su only Prereq.: consent of instructor. Pass-fail grading. A minimum of 6 weeks of full-time employment by an industry participant in the summer program. Same as ENGR 3894, 3895. Selected engineering problems in an industrial environment.

3271, 3272 Senior Projects (1-2, 1-2) Prereq.: consent of department. Pass-fail grading. Experimental and theoretical investigations including library research.

4180 Support Services: Momentum Transfer (3) F Prereq.: CHE 2171, MATH 2055, and credit or registration in CE 2450. Fundamentals of momentum transfer; applications to the fluid problems of engineering.


4184 Engineering Measurements Laboratory (3) S Prereq.: CHE 4101 and credit or registration in CHE 4102. 2 hrs. lecture; 3 hrs. laboratory work to accompany CHE 4101 and 4102.

4151 Unit Operations Design (4) F Prereq.: CHE 3173 and 4102. 3 hrs. lecture; 3 hrs. lab. Unit operations analyzed as applications of chemical engineering fundamentals and transport sciences; use of these principles in design calculations.

4162 Unit Operations Laboratory (2) FS Prereq.: CHE 4104 and credit or registration in CHE 4151, 4156, 6 hrs. lab. Obtaining and interpreting data needed to solve typical problems in design or operation of chemical engineering equipment.

4170 Process Economics and Optimization (3) F Prereq.: credit or registration in CHE 4151. Application of optimization principles to the economic design of chemical engineering unit operations.

4177 Process Design (3) S Prereq.: CHE 4151, 4171, and 4190. 2 hrs. lecture; 3 hrs. lab. Chemical plant design from initial concept through definitive design; includes flowsheeting, plant location, operations, safety, and waste disposal.

4173 Computer-Aided Process Design (2) S Prereq.: credit or registration in CHE 4172. Solution of material and energy balances for large-scale process flow sheets without incorporation of detailed unit operations models.

4190 Chemical Reaction Engineering (3) F Prereq.: CHE 3173, 3177, and credit or registration in CHE 4151. Advanced chemical reaction design; selection of best design alternatives; achievement of optimum reactor operation.

4198 Process Dynamics (3) F Prereq.: credit or registration in CHE 4151, 4156; or permission of instructor. Analysis and control of process dynamics and automatic control; mathematical modeling of process dynamics, feedback control, and feed forward control.

4204 Technology of Petroleum Refining (3) Prereq.: CHE 4151. Catalytic and thermal processes used in petroleum refining; application of scientific and engineering principles in processes such as catalytic cracking, reforming, coking, and isomerization; emphasis on applied catalysis and its impact on engineering design.

4205 Technology of Petrochemical Industry (3) Prereq.: CHE 4151. Processes used in the manufacture of petroleum-based chemicals; application of scientific and engineering principles involved in the production of hydrogen, alcohols, olefins, aromatics, aldehydes, ketones, acids, rubber, and other polymers; emphasis on catalysis by transition-metal complexes.

4253 Introduction to Industrial Pollution Control (3) Prereq.: CHE 4102 or equivalent introductory course in transport science. Quantitative application of chemical engineering principles to removal of objectionable components from effluents, with emphasis on industrial processing effluents; currently available techniques for controlling air and water pollution; lumped and detailed conceptual models of pollution control through basic process alterations developed by specific examples.

4260 Biochemical Engineering (3) Prereq.: credit or registration in CHE 4150 or equivalent. Application of chemical engineering fundamentals to microbiological and biochemical systems; problems peculiar to industrial operations involving microorganisms, growth conditions and requirements, metabolites, product separations, enzyme catalysis, sterilization, and aseptic operations.

4263 Environmental Chemodynamics (3) Prereq.: CHE 4152 or equivalent introductory course in transport science. Environmental chemodynamics: interphase equilibrium, reactions, transport processes and related models for anaerobic, sub-surface (ground-water), landfills, and associated boundary regions.

4270 Processing of Advanced Materials (3) Prereq.: CHE 4102 or equivalent transport course. Treatment of coupled chemical reaction and mass, energy, and momentum transport in the manufacturing and processing of semiconductors and advanced ceramic materials; engineering models for chemical and physical vapor deposition methods and condensed phase processes.

4285 Principles of High Polymers (3) Prereq.: CHE 3172 and CHEM 4591. Solution and solid-state properties of high performance thermoplastics; polymeric materials and their effect on macromolecular physical properties of the final plastics.

4296 Development of Mathematical Models (3) Prereq.: CHE 3176 and 4101; or equivalent. Mathematical descriptions of systems encountered in chemical engineering developed from basic principles; lumped parameter systems, distributed parameter systems, formulation of ordinary differential equations, continuous and discrete analogs, and matrix formulations; models developed for systems ranging from simple elements to plants.

4410 Special Topics in Chemical Engineering Design (3) One or more phases of current chemical engineering design.

4428 Special Topics in Chemical Engineering Science (3) One or more phases of current chemical engineering science.

7110 Mathematical Methods in Chemical Engineering (3) V Linear algebra, vector analysis, linearization, analytical and approximate techniques for the solution of linear and nonlinear differential equation models in chemical engineering.

7120 Chemical Engineering Thermodynamics (3) V Thermodynamic principles, first and second laws of thermodynamics, entropy, Maxwell relations, and relationship of physical properties to intermolecular forces; physical equilibrium with emphasis on partial free energy, fugacity, Raoult's law, K-values, equations of state, and activity coefficients; chemical potentials and free energies; fundamentals of statistical mechanics.

7130 Fundamentals of Transport Phenomena (3) S Foundations of heat, mass, and momentum transfer in continuous, multiphase, turbulent flows; buoyancy-induced flows; heat and mass transfer by diffusion, convection, and turbulence.
be given for both this course and CHEM 2003. Breakage deposit. Experiments in modern methods of analysis.

2003 Honors: Analytical Chemistry Laboratory (2) Prereq.: CHEM 1201. 6 hrs. lab. Credit will not be given for both this course and CHEM 2003. Primarily for chemistry majors. Breakage deposit. Experiments in modern methods of analysis.

2069 Organic Chemistry Laboratory (2) Prereq.: CHEM 1202. Credit will not be given for both this course and CHEM 2261. Aromatic and aliphatic compounds; biological aspects of organic chemistry.

2601 Analytical Chemistry (2) Prereq.: CHEM 1202 or 1422. Credit will not be given for both this course and CHEM 2003. Representative classes of organic compounds; emphasis on reactions of both synthetic and natural products, reaction mechanisms, stereochemistry, reaction mechanisms, and related topics in synthetic and natural products.

2653 Problems in Organic Structure Elucidation (3) Prereq.: CHM 2003 or 2262. Focus on interpretation of multiple types of NMR spectra, mass spectra or other spectra relevant to structure elucidation; extensive utilization of actual spectra in problem solving sessions.
Acting particles including ideal gases, real gases, crystals, other solids, liquids, solutions, and chemical equilibria, advanced topics and areas of current research.

7291 Quantum Chemistry (3) Prereq.: CHEM 5441 and PHYS 2101. Not open to civil engineering students. Basic principles of quantum mechanics applied to molecular spectra, chemical bonding, and other chemical properties of molecules, rotational, vibrational, and electronic transitions, and other molecular properties.

7292 Special Topics in Chemical Physics (2-3) May be taken 4 times for credit. Specialized areas of physical chemistry.

7790 Special Topics in Analytical Chemistry (2-3) May be taken 4 times for credit. Advanced topics in modern and theoretical techniques of analytical chemistry.

7797 Special Topics in Inorganic Chemistry (2-3) May be taken 4 times for credit. Advanced treatment of areas of current interest in modern inorganic chemistry.

7798 Special Topics in Macromolecular Chemistry (2-3) May be taken 4 times for credit. Advanced treatment of specialized subjects of importance to current macromolecular research.

7800 Seminar (1) May be taken 6 times for credit. Pass-fail grading. All graduate students are expected to participate in report and discussion groups in field of chemistry of their choice.

8800 Thesis Research (1-12 per sem.) Students who receive 6 hrs. of credit for this course cannot obtain more than 9 hrs. of credit for CHEM 8900. "S"/"U" grading.

9900 Dissertation Research (1-12 per sem.) Prereq.: 6 hrs. of credit in CHEM 8000 or 8900. "S"/"U" grading.

CIVIL ENGINEERING - CE

In the Department of Civil Engineering, the second digit of the course number denotes the subject area of the course, as follows:
0—construction, excluding 8000, 9000; 1—environmental; 2—water resources; 3—geotechnical; 4—structures; 5—surveying; 6—transportation; 7—general.

2081 Structural Technology I (3) Prereq.: MATH 1441 and WRT 1101. Not open to civil engineering majors. Basic principles of statics and stability of materials.

2200 Fluid Mechanics (3) Prereq.: CE 2450. Statics and dynamics of continuous liquids and gases; control volume laws, difference of fluid, mass, momentum, and energy; dimensional analysis and similarity; applications to pipe flows.

2250 Hydraulic Laboratory (1) Prereq.: CE 2200 and 3200. Lab. Measurement and calibration of hydraulic machinery; pump and turbine efficiency; flow in pipelines; viscosity; discharge coefficients.

2450 Statics (3) Prereq.: MATH 1552 and PHYS 2101. Vectors and statics of resistant and equilibrium of force systems, centroids and centers of gravity, fluid statics, vibrations.

2500 Elementary Surveying (2) Prereq.: MATH 1015, 1022, or 1023. Primarily for those desiring a terminal course in elementary surveying. Theory, use, and application of tape, level, and transit.

3210 Elementary Surveying Laboratory (1) Prereq.: credit or registration in CE 2500. 3 hrs. lab. Laboratory to accompany CE 2500.

2710 Introduction to Civil Engineering (1) Prereq.: credit or registration in CE 2500. Designed for civil engineering majors. Professional and technical aspects of civil engineering education and practice.

2720 Computational Methods in Civil Engineering (3) Prereq.: MATH 2653. Matrix analysis and numerical methods in MATH 2655. Numerical techniques for solving civil engineering problems; applications of statistical methods, numerical methods, and computational techniques; introduction to computer-aided design and integration and differentiation in civil engineering systems.

3982 Structural Technology II (3) Prereq.: CE 2081. Not open to civil engineering majors. Design of steel and timber structures. Specialized computer programs and connections.

3983 Reinforced Concrete Design (3) Prereq.: CONS 3083. Not open to civil engineering majors. Principles and practices of concrete construction; flexure and shear in beams; reinforcement, one-way and two-way slabs; columns and footings.

3100 Water Distribution and Wastewater Collection (2) Prereq.: CE 3210. Principles and practices used in analysis and design of water supply systems and storm and wastewater collection systems.

3110 Water and Wastewater Treatment (3) Prereq.: CE 2200. Physical, chemical, and biological characteristics of water: currents and systems; purification; design of water treatment facilities; operation and management of drinking water treatment.

3200 Hydraulics (3) Prereq.: CE 2200 and 2720. Fundamentals of fluid mechanics applied to problems in the field of water: steady and unsteady flow in conduits, flow in open channels, measurement of flowing water, and turbine machinery; emphasis on computer methods.

3350 Geotechnical Engineering I (3) Prereq.: GEOL 1001, CE 2200, 3400, and credit or registration in CE 3350. Properties and behavior of soils as engineering materials: origin of soils, structure, strength, and deformation of soil mass; elementary theoretical treatment of consolidation, stability, earth pressure, and bearing capacity.

3359 Geotechnical Engineering Laboratory I (1) Prereq.: credit or registration in CE 3350. 3 hrs. lab. Fundamental properties of soils; testing methods to determine those properties; includes gradation, specific gravity, Atterberg limits, uncompanded compression, triaxial shear, direct shear, vane shear, and one-dimensional consolidations.

3400 Mechanics of Materials (3) Prereq.: CE 2450 and credit or registration in 3200. Stresses and strains; beam, trusses, and torsion; strain, bending, deflections of beams, columns, statically indeterminate problems, combined stress.

3410 Mechanics of Materials Laboratory (1) Prereq.: credit or registration in 3400. 2 hrs. lab. Statics and dynamics of structures; mechanics of materials and structural mechanics.

3413 Structural Analysis I (3) Prereq.: CE 3400. Analysis of statically determinate structures including beams, frames, trusses, and arches for the effects of dead, live, moving, and wind loads.

3560 Plane Surveying and Measurements (3) Prereq.: Eligibility for MATH 2057 and CE 2720. 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.

3640 Principles of Highway and Traffic Engineering (3) Prereq.: CE 3500 or equivalent. Basic traffic characteristics, traffic capacity, factors affecting flow of design; highway; road location, traffic operations, and signalized intersection design.

3790 Environmental Materials Laboratory (1) Prereq.: credit or registration in CE 3082 or 3400 or equivalent. 3 hrs. lab. Design and properties of concrete and bituminous materials.

3740 Independent Studies in Civil Engineering (3) Prereq.: senior standing, English proficiency, and ENGL 1002 (unless ROTC is elected); grade of at least 3.0 (overall and in area credits); and consent of department chair. Project chosen in consultation with department chair. Formal proposal and final presentation required. Comprehensive design and development of a component of a system, system, or software package.
4185 Quantitative Water Management (3) Prereq.: CE 3110. Quantitative methods of water management problems based upon hydraulic, mass balance, stoichiometric, kinetic and equilibrium phenomena.

4192 Solid Waste Management (3) Prereq.: consent of instructor. General presentation, including generation, classification, collection, storage, and disposal of solid waste; recycling and reuse; costs, marketing, and legal/regulatory aspects.

4193 Water Quality Analysis for Natural Systems (4) Prereq.: CHIM 1310, 3 hrs. lecture; 3 hrs. lab. Application and interpretation of standard sanitary chemical and microbiological methods to water quality problems in the areas of waste-water, wastewater treatment, and pollution of natural waters.

4194 Design of Wastewater Management Facilities (3) Prereq.: CE 3100 and 3110, 2 hrs. lecture; 3 hrs. lab. Design of wastewater treatment facilities, processes selection and evaluation using computer-assisted procedures, preparation of design drawings, reports, and cost estimates.

4195 Hazardous Waste Management (3) Prereq.: CE 4175. Identification and classification of wastes; regulations; treatment, storage, and disposal techniques; facilities parameters.

4200 Hydrology (3) Prereq.: CE 2200 or MATH 1552. Water movement from arrival on land surface until it reaches the sea overland; concept of frequency, maximum probable runoff of rainfall, mass curves, and other statistical methods of water movement.

4205 Ground Water (3) Prereq.: CE 2200 or MATH 1552. Occurrence of ground water; properties and classification of water-bearing formations; origin, discharge, and methods of determining rate of safe ground water movement; Darcy's Law, Thetis Equation, analysis of aquifer tests, and "safe yield"; legal doctrines, side effects of aquifer withdrawal, and the effect of ground water on surface streams.

4206 Design of Hydraulic Systems (3) Prereq.: CE 3200 and 4200 or equivalent. Hydraulic design of water resources projects; maximization of benefits; analysis techniques, and design practice.

4207 Geotechnical Engineering I (Shallow Foundations) (3) Prereq.: CE 3300 and 3350. Fundamentals of geotechnics applied to design and analysis of soil and rock structures; analysis of the soil-structure interaction; design of shallow foundations, retaining structures, and slopes; selected topics on soil improvement and vibration; emphasis on computer utilization.

4210 Geotechnical Engineering III (Deep Foundations) (3) Prereq.: CE 3300, 3350, and 4300. Fundamentals of geotechnics applied to design and analysis of deep soil structures; single pile and pile groups under axial load, cantilever and pier; effects of lateral loads; computer utilization.

4213 Coastal Engineering (3) Prereq.: CE 3300 or equivalent. Engineering problems of the coastal zone; coastal processes, shore protection, and passive and active control of environmental forces due to waves, currents, and winds; offshore soil geotechnical properties, vertical and lateral pile capacity; design principles for submarine pipelines and offshore platforms; engineering case studies.

4400 Principles of Steel Design (3) Prereq.: CE 3415. Analysis and design of elements of steel structures; elastic and plastic design, critical comparison of specifications with theory.

4401 Principles of Reinforced Concrete (3) Prereq.: CE 3415. Working stress and ultimate strength theories as applied to concrete beams (reinforced and prestressed), columns, slabs, and footings; experimental data and current design specifications.

4402 Principles of Prestressed Concrete (3) Prereq.: CE 4410. Analysis and design of prestressed concrete structural elements; full and partial prestressing; service ability and strength requirements; code criteria for bridges, buildings, and other structures.

4405 Principles of Wood Mechanics and Timber Design (3) Prereq.: CE 3415 or equivalent. Basic principles of mechanics, elasticity, strength, and failure as applied to wood; design methods and specifications governing the design of sawn lumber, plywood, and glulam timber structures and structural components.

4430 Statics and Dynamics (3) Prereq.: CE 4400 and credit or registration in CE 4435 and 4440. Fundamental principles applied to planning, analysis, and design of structures in steel, concrete, and wood; introduction to computer design packages for solving structural design and engineering problems using mainframe and microcomputer software.

4435 Indeterminate Structural Analysis (3) Prereq.: CE 3415. Analysis of statically indeterminate structures; methods of consistent deformations, elastic energy, virtual work, slope deflection, moment distribution, and matrix formulations.


4450 Finite Element Methods (3) Prereq.: CE 3400; and either MATH 2100 or equivalent. Method of finite element methods with applications to a wide class of physical problems; matrix representation of stress, strain, and material constitutive relations; principle of virtual work, discrete finite element models of continuous systems, construction of basic finite element algorithms, and solutions of physical problems using existing finite element computer programs.

4506 Geodetic and Photogrammetric Surveying (3) Prereq.: CE 3500 or equivalent. 2 hrs. lecture; 3 hrs. lab. Geodetic surveying, computer applications and photointerpretation; calculation and field procedures used in ground control surveys and photogrammetry.

4525 Advanced Surveying (3) Prereq.: CE 3500 or equivalent. 2 hrs. lecture; 3 hrs. lab. Electronic surveying, simultaneous conveyances, subdivision surveys, flood plain management, state plane coordinates, solar azimuths, horizontal and vertical curves, and earthwork.

4550 Boundary Surveying (3) Prereq.: CE 3500 or equivalent. 2 hrs. lecture; 3 hrs. lab. Designed to prepare engineers to complete Land Surveyor Registration Requirements in Louisiana. Coverage of boundaries; emphasis on U.S. Land Survey System and Louisiana surveying laws and grids.

4560 Engineering Applications of Remote Sensing (3) Prereq.: CE 3500 or equivalent. Photographic and digital image processes related to interpretion, principles, methods, and techniques; engineering applications of remote sensing satellite images, transportation, geology, geomorphology, and water resources.

4600 Geometric Design of Highways and Airports (3) Prereq.: CE 3600 or equivalent. 2 hrs. lecture; 1 hrs. lab. Principles of design and practice for rural and urban highway facilities and airport installations; design criteria and controls, capacity analysis, cross-section selection, design of horizontal and vertical alignment, intersections, interchanges and computer applications to design problems.

4620 Transportation Engineering (3) Prereq.: CE 3600 or equivalent. History, economics, and traffic characteristics of transportation systems; planning, design, construction, maintenance, and operation of air, highway, pipeline, rail, and water transportation facilities—vehicles, guideways, and terminals.

4651 Concrete Materials and Mixtures (3) FE Prereq.: CE 3700 or equivalent. Composition and properties of concrete, including types and basic constituents of cements; structure and hydration reactions of cement pastes; selection and grading of aggregate admixtures; properties of fresh concrete; production, compacting, placing and curing of concrete mixtures; strength; durability; and quality control.

4670 Fundamentals of Pavement Design (3) F Prereq.: CE 3600 or equivalent. Design of asphaltic concrete procedures; subgrade, base, and surfacing characteristics; loads; stresses in pavement systems; material characterization; pavement response models; pavement performance models; structural design systems; effects of natural forces; and construction practices.

4790 Civil Engineering Design (3) Prereq.: credit in IE 3710, CE 3100, 3300, 3600, 4410, and credit in at least one of the following courses: CE 4200, 4300, 4400, 4600, or 4670; 2 hrs. lecture; 3 hrs. lab. Design of civil engineering facilities, feasibility studies for subdivisions, airports, shopping centers, and similar projects; and application of computer and computer code simulation and optimization management of surface and groundwater systems.

4790A Principles of Management (3) Prereq.: CE 4200. Principles of management applied to hydrologic processes; methods of solution and model building; application to water resource problems.

4790B Advanced Geotechnical Engineering I (Stress Distribution, Seepage, Compressibility) (3) Prereq.: CE 3300 and 3350. Advanced theories of soil mechanics including stress distribution, seepage through soils, consolidation, and settlement analysis; their applications in foundation engineering.


4790C Advanced Geotechnical Engineering II (Shear Strength, Bearing Capacity, Slope Stability) (3) Prereq.: CE 4450. Numerical analysis of stresses and strains in a slope due to friction or cohesion, and bearing capacity; slope stability, and earth pressure distribution.

4795 Principles of Soil Behavior (3) Prereq.: CE 3300, 3350, 4450. Analysis and design of soils and their response under different engineering conditions; evaluation of the effects of environmental factors on conduction phenomena, volume change behavior, deformation, strength stress-strain-time behavior in soils; soil compression, migration of groundwater; water body systems in identification of influencing variables.

7230 Advanced Design and Analysis of Foundations (3) Soils as an engineering material, geotechnics applied to advanced soil design; design and analysis of various
7470 Theory of Elastic and Plastic Stability (3) Prereq.: ECON 4570 or equivalent. The role of air transportation in the economy; comprehensive economic analysis of airline systems, basic operation models, and neoclassical models; market system and models; pricing theory; regulated and unregulated domestic and international markets.

7469 Urban Transportation Planning (3) Prereq.: CE 3500 or equivalent. Concepts, fundamentals, procedures, and computer applications for urban transportation planning; systems analytic approaches to transportation planning; demand and supply; computer applications and policy issues.

7461 Urban Transportation Planning Models (4) S-E Prereq.: CE 6740, ECON 4570, ECON 7001, or equivalent. 1 hr. lecture; 2 hrs. lab. Theories of travel demand modeling; conventional four-step modeling procedures; network development for high-occupancy-vehicle systems; development of trip generation, distribution, and mode-choice models; highway and transit assignment procedures; and under-development of curvatures.

7650 Bituminous Materials and Mixtures (3) S-O Prereq.: CE 3700 or equivalent. 2 hrs. lecture; 3 hrs. lab. Properties of asphalt and tar used in bituminous materials; material and physical properties and design of bituminous mixtures; theory and practice of asphalt concrete mix design for pavements and bases including specification and construction methods for hot-mixes and surface treatments.

7652 Pavement Foundations (3) S-E Prereq.: CE 3300 or equivalent. Methods of improving soft soil; stabilization with lime, cement, and other admixtures; construction operations; costs and field control related to soil stabilization.

7655 Pavement Materials Characterization (4) F-O Prereq.: CE 4571, or equivalent. Methods and use of laboratory and field test methods for determining engineering properties of pavement materials; interpretation of test data in the context of standard fundamental engineering properties in design and analysis of pavement response to environmental and vehicular loads.


7673 Pavement Maintenance and Rehabilitation (3) S-E Prereq.: CE 3700 or equivalent. Concepts of pavement maintenance and rehabilitation; pavement evaluation techniques; maintenance versus rehabilitation versus replacement alternatives.

7740, 7719 Special Topics in Civil Engineering (3) Prereq.: Permission of department. Credit may be taken for a maximum of 6 hrs. of credit. Specialized civil engineering topics.

7720 Theoretical and Matrix Methods in Civil Engineering (3) Prereq. Application of numerical and matrix methods to structures, soils mechanics, transportation, water resources, and other civil engineering areas; matrix analysis of discrete and continuous systems; eigen values, eigen vectors, and canonical forms; use of finite differences; high-speed computational techniques.

7740 Master's Report (Comprehensive report with oral defense on subject approved by the major professor.

7750 Seminar (1) Graduate students are expected to enroll every semester. Only one semester hour of credit will count toward graduation.

8000 Thesis Research (1-2 per sem.) S/ U grading.

9000 Dissertation Research (1-2 per sem.) S/ U grading.

CLASSICAL STUDIES - CLST

2800 Women in Antiquity (3) Knowledge of Greek or Latin not required. The role of women in Greek and Roman society; readings from historical, legal, medical, and religious documents.

2900 Greek and Roman Mythology (3) Taught in English; knowledge of the Greek and Latin languages not required. Study of myths not appropriate for foreign language. Survey of the principal myths of the Greeks and Romans.

2901 Greek and Latin Word Study (3) No previous knowledge of Greek or Latin required; credit not applicable toward a major in foreign languages. Credit will not be given for both this course and FNRS 1001-1003. A survey of the 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. Credit not applicable toward a major in foreign languages. Credit will not be given for both this course and FNRS 1001-1003. A survey of the literature, philosophy, art, and culture of ancient Rome from its beginnings to the death of Marcus Aurelius.

3015 The Archaeology of Ancient Greece (3) Offered Fall Term only. Survey of the archaeology of ancient Greek civilization of ancient Greece; includes Neolithic Age, Bronze Age (Mycenae-Minoan), Classical Age, and the Age of Alexander.
3840 Greek and Roman Comedy in English Translation (3) Knowledge of Greek language required. Masters of stage comedy from the ancient world, with special attention to Aristophanes, Menander, Plautus, and Terence; origins and growth of comedy as an art, form, problems in staging, social nature of comedy in the ancient world.

COMMUNICATION DISORDERS • COMD

1051 Spoken American English (3) Prereq.: consent of instructor or international student counselor. Weekly individual work in the Speech Laboratory. Undergraduates only. Theoretical and practical treatment of pronunciation of American English for students of other languages; phonetics, phonology, morphology, syntax, and semantics; related topics such as writing systems and dialects.

1051 Introduction to Manual Communication (4) hrs. lecture; 2 hrs. lab. Basic linguistic structure, educational and cultural values, and translation and message in manual communication systems; American Sign Language, as well as English-based systems.

1081 Introduction to Communication Disorders (3) Required introductory course providing an overview of speech pathologists and audiologists. Observation in Speech and Hearing Clinic required. Processes involved in speech production; definition, description, and incidence of speech and hearing disorders; overview of the profession, including agencies, related professionals, job opportunities, publications, professional organizations, and certification.

4450 Phonetics (3) Prereq.: COMD 2050. 3 hrs. lecture; 1 hr. lab. Also offered as LING 4150. Principles of the phonetics; articulatory phonetics; description and classification of sounds; description at different levels of detail; production and perception.

4510 Acoustics of Speech and Hearing (3) Prereq.: COMD 2081 or equivalent. Also offered as LING 4153. Production, transmission, and perception of speech acoustics in communication; acoustic phonetics and psycho-acoustics.

4910 Introduction to Audiology (3) Prereq.: COMD 4153. Interaction of hearing and speech, effects of hearing loss on speech and language development, types of hearing loss and evaluation processes.

4520 Anatomy and Physiology of Speech and Hearing (3) Prereq.: BIOL 1201, 1208; ZOOL 1202; or ZOOL 2100. Functional anatomy of structures associated with speech production, and reception.

4688 Speech and Language Development (4) 2 hrs. lecture; 1 hr. lab. Language acquisition and development, behavior, and cognitive development, verbal learning, and structural and functional aspects of speech; theories of language development in the "normal" child.

4581 Basic Articulation Disorders (3) Prereq.: COMD 4150 or equivalent. Introduction to articulatory physiology, development, etiology, evaluation and treatment of disorders of the speech mechanism.

4582 Basic Language Disorders of Children (3) Prereq.: COMD 4380 or equivalent and consent of instructor. Differential diagnosis and remediation of major language disorders of children.

4583 Basic Fluency Disorders (3) Prereq.: COMD 4381 or equivalent. For clinical practicum take COMD 4683, 4684, or 4686. Description, classification and diagnosis; emphasis on symptomatology, testing, rehabilitation and prevention.

4584 Basic Voice Disorders (3) Introduction to vocal physiology, dynamic characteristics and measurement of hemodynamic, frequency, and differential diagnosis and management of voice disorders of functional and organic etiology.

4590 Auditory Rehabilitation in Children (3) Prereq.: COMD 1153, 1170. Management and evaluation, including modes of communication, auditory and speech reading training, amplification issues, early identification and intervention, and educational placement.

4611 Clinical Preprofessional Observation Laboratory (1) S 2 hrs. lab. For majors in communication sciences and disorders. Study of clinic rules and procedures, codes of ethics; observation of various types of therapy and evaluation techniques.

4682 Introduction to Clinical Practicum (2) FS For majors in communication sciences and disorders. Techniques for treatment, therapy, counseling, and behavior management.

4683, 4684, 4685 Clinical Practice—Therapeutic Techniques (1-4 each) Prereq.: COMD 4381. May be taken for a max. of 8 sem. hrs. of credit each. On- and off-campus practicum in specific disorders (articulation, language, fluency, voice, hearing, etc.).

4694 Clinical Practicum in a Medical Environment (1-4) Prereq.: consent of instructor. Clinical experience in a medical environment. Individual supervision.

750 Independent Research in Speech Science or Linguistics (1-3) May be taken for a max. of 3 hrs. of credit.

7151 Speech Science (3) Motor and articulatory phonetics, including palatoanatomy, acoustic phonetics, and aspects of speech perception.

7152 Instrumentation and Methods for Speech and Hearing (4) Prereq.: COMD 4153 or equivalent. 3 hrs. lecture; 2 hrs. lab. Instrumentation techniques for assessment of research in speech and hearing, both theory and application are emphasized.

7153 Research Design in Communication Science and Disorders (2-3) Prereq.: EXST 105 or consent of instructor. Empirical research design techniques in speech and hearing; emphasis on measurement validity and reliability.

7209 Speech Science (3) Prereq.: COMD 4250. Auditory transmission and processing from the outer ear to the cortical area; psychophysical phenomena germane to human audition.

7219 Hearing Aids: Electroacoustics and Fitting (3) Prereq.: COMD 4290. Electroacoustic analysis of hearing aids, earmold acoustics, selection and evaluation procedures, special devices, and problems in communication.

7280 Neuroanatomical Basis of Speech and Hearing (3) Prereq.: ZOOL 2100 and COMD 4250 or equivalent. Study of neuroanatomy and physiology of the central nervous system as it relates to sensori-motor and cognitive processes underlying speech and hearing.


7381 Language and Learning Disorders (3) Prereq.: COMD 4382. Language disorders and the communicative aspect of language; current research and treatment models for handicapped individuals in speech and language learning; emphasis on school-aged child.

7382 Voice Disorders (3) Prereq.: COMD 4384. Incidence, etiology, concomitant problems; assessment and management of vocal disturbances.

7383 Cleft Palate/Orofacial Disorders (3) Prereq.: COMD 4250, 4385. Orofacial anatomy, physiology, and etiology; etiology and classification in speech and hearing; surgical, dental, speech, hearing, and psychosocial concomitants and management.

7384 Early Communicative Intervention (3) Prereq.: COMD 4381. For clinical practicum take COMD 7684 or 7685. Cognitive, social, and environmental conditions associated with "high risk" for communicative disorders; intervention approaches (counseling, direct stimulation of child-caregiver interactions) and service delivery models (home-based, center-based).

7385 Neuropathologies of Speech (3) Prereq.: COMD 4381, 7684, and 7685. Physiological and anatomical bases of dyspraxia, apraxia, and related speech disorders due to neuropathy in the adult population; emphasis on language, speech, and associated disorders.

7386 Introduction to Augmentative/Alternative Communication (3) Current issues, terminology, and technological development. Study of augmentative and alternative systems and devices, including various sign and symbol systems; augmentative communication assessment; intervention guidelines.

7387 Aphasia in Adults (3) Prereq.: COMD 7280 or equivalent and consent of instructor. Neurological bases of aphasia and related disorders; appropriate therapeutic methodologies.

7388 Communication Disorders II (3) Prereq.: COMD 4383 or equivalent. Etiology and nature of speech fluency disorders.

7389 Communicative Rehabilitation of Severely/Multily Handicapped Individuals. A study of severe and multiply handicapping conditions; alternate communication systems; assessment and intervention processes; pragmatics of speech communication and individualization involving individuals who use nonsoap modalities.

7390 Industrial Audiology and Hearing Conservation (3) Prereq.: COMD 7490. Audiological practices in industry for industrial hygienists, managers, professional, technical, business, and legal issues.

7391 Educational and Pediatric Audiology (3) Prereq.: COMD 7490. Identification and management of the young child with central nervous system disorders; genetic hearing loss and other high risk types of impairment related to hearing.

7392 Pathology of the Auditory System (3) Prereq.: COMD 4250, 7191, 7490. Medical aspects of hearing loss including conductive, sensory, neural, and central auditory dysfunction; diseases, abnormalities, and methods of medical intervention.

7400 Measurement and Diagnosis of Communication Disorders (3) Psychological and behavioral measurement of communicative functioning and treatment planning for communicative disorders.

7400 Diagnostic Audiology I (3) Prereq.: COMD 7191. Behavioral tests and middle ear measurements in relation to test purpose, scientific basis, assessment strategies, procedures, and implications.

7491 Diagnostic Audiology II (3) Prereq.: COMD 7490 or consent of instructor. Auditory evoked potentials and electromyography examination in relation to purpose, scientific basis, assessment strategies, procedures, and interpretation across-three-check principles.

7500 Auditory Rehabilitation of Adults (3) Prereq.: COMD 7192. Special needs of the adult hearing-impaired individual: communicative, social, and vocational; hearing aid use and components of the rehabilitation process.

7683, 7684, 7685 Graduate Clinical Practice—Therapeutic Interventions (3 each) Prereq.: consent of instructor. Practice 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 in the American Speech, Language, and Hearing Association. Only 6 sem. hrs. of academic credit may be counted toward the degree, although all practicum hours count for professional certification. 2-6 hrs. clinic, on- and off-campus graduate practicum in specific areas (articulation, language, fluency, voice, aural rehabilitation, early intervention, educational audiology, oral-facial anomalies, neurological disorders).

7741 Quantitative Measurement of Speech (3) Prereq.: completion of 12 hrs. of graduate work in communication disorders. Study of objective measures and speech function; emphasis on use of types of electronic instrumentation.

7750 Special Topics in Linguistics (3) May be taken two times for credit for the master's degree and four times for the doctorate when topics vary. Also offered as LING 7750. Topics to be announced.

7752 Seminar in Linguistics (3) Also offered as LING 7752. May be taken for a max. of 5 hrs. for the master's degree and 12 hrs. for the doctoral degree when topics vary. Problems in analysis of language; emphasis on phonology and semantics.

7754 Psycholinguistics: Linguistic Perspectives (3) Prereq.: ENGL 4010 or equivalent. Also offered as PSYC 7754 and LING 7754. Theories of constituent structure and their implications; discourse/semantic principles and their application; speech errors and language universals.

7755 English for Speakers of Other Languages: Methods and Materials (3) Also offered as LING 7755. Problems in teaching English to speakers of other languages; assessment and production strategies for spoken language; discourse analysis, theoretical foundations, second language acquisition research, development of a teaching syllabus; work with international students.

7756 Independent Research: Phonetics and Linguistics (1-3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit. Open to graduate students who wish to pursue research on special problems exclusive of thesis or dissertation. Also offered as LING 7756.
1248 Introduction to Pascal Programming (3) Prereq.: MATH 1020/1021 or sufficiently high score on the mathematics placement examination to qualify for MATH 1022 or 1431. Credit will not be given for both this course and CSC 257 or CSC 521. This course is required for computer science majors. Computer programming using the Pascal language.

1250 Introduction to Computer Science I (3) Prereq.: credit in registration in MATH 1530 or credit in either MATH 1431 or 1435. Basic concepts of how computers and systems work. This course and CSC 1248 are prerequisites to both this course and CSC 1248. Fundamentals of programming, program design, and algorithms using a high-level block-oriented structured language.

1251 Introduction to Computer Science II (3) Prereq.: CSC 1250 and MATH 1550 or registration in MATH 1435. Basic concepts of data types (strings, arrays, records, sets, files), different structures (stacks, queues, trees), searching and sorting algorithms.

1253 Introduction to Computer Science with C-I (3) Prereq.: credit or registration in MATH 1550 or credit in MATH 1431. Credit will not be given for both this course and CSC 1250 and 2290. Fundamentals of programming, program design, and algorithms using a high-level block-oriented structured language.

1254 Introduction to Computer Science with C-II (3) Prereq.: CSC 1253, MATH 1550 or registration in MATH 1435. Credit will not be given for both this course and CSC 1251 and 2290. Basic concepts of data types (strings, arrays, records, sets, files); data structures (linked lists, stacks, queues, trees), searching and sorting algorithms.

1255 Introduction to Discrete Structures (3) Prereq.: MATH 1255 and CSC 1251. Set theory, counting methods, and algebraic structures. These structures are applied to various areas of computer science.

1256 Computer Organization (4) Prereq.: CSC 2252. Credit will be given for only one of the following: CSC 2260, 2262, or IE 2060. Basic principles of digital programming in symbolic languages; application of electronic computers to typical scientific problems.

1257 Introduction to the Use of Computers (3) Prereq.: CSC 1252. Credit will be given for only one of the following: CSC 2260, 2262, or IE 2060. Basic principles of digital programming in symbolic languages; application of electronic computers to typical scientific problems.

1262 Numerical Methods and FORTRAN (3) Prereq.: CSC 1252. Credit will be given for only one of the following: CSC 2260, 2262, or IE 2060. Computer-oriented methods for solving problems in science and engineering; elements of FORTRAN programming language; numerical solutions to systems of simultaneous equations, nonlinear functions, approximation methods (interpolation, solving), differentiation and integration, ordinary differential equations, interpolation, and curve fitting.

1269 Introduction to Digital Data Processing Systems (3) Prereq.: credit in a course in computing. Primarily for students in computer science and related disciplines. COBOL programming; its use in business data processing systems.

1280 Computer Organization (4) Prereq.: CSC 2252. 3 hrs. lecture; 2 hrs. lab. Basic digital circuits; Boolean algebra and combinational logic, digital representation and transfer, and digital arithmetic; digital storage and access, control functions, input-output facilities, system organization and reliability; simulation techniques; features needed for multiprogramming processing, and real-time systems; other advanced topics and alternate organizations.

2300 C Programming (3) Prereq.: CSC 1251. Programming in C language; syntax, system interface, and modular programming using C.

3102 Advanced Data Structures and Algorithm Analysis (3) Prereq.: CSC 2252. Credit will be given for all elements in CSC 2252 or EE 2720. Description and utilization of formal ADT representations, especially those on lists, sets, and graphs, including current research areas (3) Non-recursive algorithms, including graph and sorting algorithms; algorithm design techniques.

3390 Object-Oriented Programming and C++ (3) Prereq.: credit in either CSC 1251 or CSC 2525. Preparation to the object oriented programming paradigm, including encapsulation, inheritance, and polymorphism; implementation of these concepts using C++.

3999 Independent Undergraduate Research (1-3) Prereq.: consent of department. May be taken for a max. of 4 hrs. of credit. Individual readings, conferences, and project development in computer science.

4101 Programming Languages (3) Prereq.: CSC 3102. Credit will be given for CSC 3102 and CSC 7001. Principles of programming language design; specification of syntax and semantics; underlying implementation of high-level language concepts; survey of current languages for strings, lists, and arrays; imperative versus applicative programming; logic programming; modern programming languages.

4103 Operating Systems (3) Prereq.: CSC 3102. Design techniques, process management, processor scheduling, deadlocks, memory management, secondary memory management, operating system administration.

4304 Systems Programming (3) Prereq.: CSC 4103. Batch process systems programs, their components, operating characteristics, user services and limitations; implementation techniques for parallel processing of input-output and interrupt handling; overall structure of multiprogramming systems on multiprocessor hardware configurations; addressing techniques, core management, file system design and management, system accounting, and other user-related services; traffic control, interprocess communication, design of system modules, and interfaces; system updating, documentation, and operation.

4330 Software Systems Development (3) Prereq.: CSC 3102. Software requirements analysis; design representation; planning methodologies; verification and validation, maintenance, and software planning.

4351 Compiler Construction (3) Prereq.: CSC 3102 or equivalent. Credit will not be given for both this course and CSC 7001. Program language structures, translation, loading, execution, and storage allocation; compilation of simple expressions and statements; organization of compiler including compiler logic and the word-time symbol table, lexical scan, syntax scan, object code degradation, error diagnostics, object code optimization techniques, and overall design of compiler writing languages and bootstrapping.

4356 Interactive Computer Graphics (see ME 4573).


4362 Advanced Numerical Methods (3) Prereq.: CSC 2262 or equivalent. Advanced treatment of numerical computation in practice; methodology for enhancing the effectiveness, accuracy, and efficiency of traditional numerical techniques; emphasis on extrapolation.

4402 Introduction to Database Management Systems (3) Prereq.: CSC 3102. Network, hierarchical, and relational, and other database models; data definition, manipulation languages, and conversion among these models; relational database design theory, efficient query evaluation, evaluation and implementation of optimization techniques.

4444 Artificial Intelligence (3) Prereq.: CSC 3102. Theorem proving and inferring techniques, production systems, knowledge representation, approximate reasoning, nonmonotonic logic, and expert systems; knowledge acquisition, scene analysis, planning, game playing, and learning.

4602 Fundamental Computer Science for Teachers (3) Prereq.: EDAF 4507 (or prior programming experience) and credit in an education methods course numbered 3000 or above. Also offered as EDAF 4512. Advanced programming techniques; emphasis on structured programming, software and hardware organization, data structures, graphics, and other topics to prepare students to teach computer science in secondary schools.

4900 Introduction to Theory of Computation (3) Prereq.: CSC 2252. Introduction to finite automata, regular expressions and languages; push-down automata and context-free languages; and theory of computation language theoretical topics; emphasis on technique.

4999 Selected Topics in Computer Science (3) Prereq.: consent of department. May be taken for a max. of 9 hrs. of credit. Topics to vary.

6100 Advanced Elements of Computer Science for Teachers (3) Prereq.: computer science programming course or knowledge of a programming language required. Advanced programming techniques using a high-level, structured language; data structures and computer systems software.

7001 Computing Principles I (3) Prereq.: CSC 3102 or equivalent. Credit will not be given for both this course and CSC 4101 or 4351. Comparing programming language concepts, semantics, data types, control structures, functional languages, compilers, and compiler construction.
702 Computer Science (3) Prereq.: CSC 7001 or equivalent. Fundamentals of operating systems, including evaluation methods; functional organization and architecture of computers, including arithmetic/logic and control units, microprogramming, processor architecture, real-time systems, microprocessors, multiprocessors, distributed processing, and digital logic; comparative study, including Unix, CP/M, DOS, VAX, etc.

7050 Computer Architecture (3) Prereq.: CSC 7002 or equivalent. Background in electronics not required. Functional architecture of modern digital computer systems; detailed design of the input/output and memory management implementation with monoprocessor and multiprocessor structures; design and analysis of instruction sets and control structures.

7101 Programming Language Structures (3) Prereq.: CSC 4103. Advanced study of data specification, storage management, and control in programming languages; includes coverage of formal specification languages; languages for computing systems; languages that support program verification techniques; and in-depth study of applicable languages.

7163 Advanced Operating Systems (3) Prereq.: CSC 4102. Concurrent programming; shared memory; communication, and operation-oriented models; concurrent, distributed, and network programming; distributed operating systems; authorization and deadlock detection in distributed systems.


7152 Software Engineering (3) Prereq.: CSC 4330 or equivalent. Formal specification techniques, design techniques, abstraction, information hiding, modularity, software testing, automated testing tools, maintainability factors, and cost estimation.

7220 Theory of Computation I (3) Prereq.: CSC 4890. Algorithms, computability, decidability, enumerability, formal language and automata theory, and Church’s Thesis; Turing machines, primitive recursive functions, u-recursive functions; undecidable predicates.

7281 Theory of Computation II (3) Prereq.: CSC 7200. Theory of computational complexity; complexity classes, NP, P, PSPACE, and NL; 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.

7225 Advanced Software Engineering (3) Prereq.: CSC 7155. Formal testing, validation and verification techniques; in-depth study of formal specification languages and techniques.

7300 Algorithm Design and Analysis (3) Characteristics of an algorithm's performance; algorithms for the design, implementation, and complexity of algorithms; algorithm case studies.

7332 Machine Learning (3) F Prereq.: CSC 4444. Fundamental principles of machine learning; mathematical foundations; basic mathematical tools; learning theory; inductive learning; explanation-based learning; computational approach to Boolean function learning; learning formal languages and recursive structures; network learning and genetic algorithms; applications of machine learning.

7351 Advanced Compiler Design Theory (3) Prereq.: CSC 4351 or 7001. Automatic generation of LL(1), LR (1), LALR, SLR, and LL(2) parsing tables; compiler generation, error recovery, optimization of branching, local code optimization using directed acyclic graphs, loop optimizations, 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; dynamic graph drawing.

7373 Algorithms for Parallel and Distributed Computing (3) Prereq.: CSC 7305 or equivalent. Parallel algorithms for searching, sorting, matrix processing, network optimization, and other problems; implementation and efficiency measures of the algorithms on different machines, with VLIW, systolic arrays.

7374 Computational Models for Mobile Robots (3) Prereq.: CSC 7300. Computational tools for design, analysis, and implementation of algorithms for robotic applications; existence and bounds of algorithms, computer representations and real-time modeling for robotic vision; image understanding, path planning, autonomous navigation and sensor-fusion problems for mobile robots.

7275 Robot Vision (3) Prereq.: CSC 3102 or equivalent, and CSC 7300. Computational aspects of vision, utilization of techniques from computational geometry, combinatorics, probability theory, and artificial intelligence; visual recognition.

7380 Computational Geometry (3) Prereq.: CSC 7300 or equivalent. Data structures and algorithm design techniques for geometric problems; geometric searching; convex hulls; Voronoi diagrams; triangulations of points; and applications of computational geometry.

7381 Computational Aspects of VLSI CAD (3) Prereq.: CSC 7300 or equivalent. Overview of VLSI design and fabrication process; abstract model of VLSI; combinatorial optimization algorithms; circuit partitioning, placement and floor planning; global routing; detailed routing; and circuit computation.

7402 Data Base Management Systems (3) Prereq.: CSC 4402. Implementation of database systems (physical model and its mapping to conceptual model); data structures and their influence on performance, concurrency control, distributed databases; advanced database systems.

7405 Automaton of Bibliographic Control Systems (3) See LIS 7505.

7406 Information Science (3) See LIS 7605.

7407 Abstracting and Indexing (3) See LIS 7606.

7410 Online Information Retrieval (3) See LIS 7607.

7420 Parallel and VLSCI Computation (3) F Prereq.: CSC 3102. Theoretical aspects of the design and analysis of parallel computer algorithms; physical implementation of VLSI chips.

7444 Advanced Artificial Intelligence (3) Prereq.: CSC 4444. Temporal and nonmonotonic logic; truth maintenance system; problem solving techniques; deductive databases; automated learning, planning, and tutoring; story understanding; structure of domain dependent expert systems.

7481 Information Retrieval Systems (3) Prereq.: CSC 3102 or equivalent. Also offered as LIS 7610. Topics include commercially available retrieval systems, text content analysis, query processing models and current research problems.

7500 System Modeling and Computer Simulation (3) Prereq.: CSC 2263 or equivalent. Construction and use of mathematical and computer models; parameter estimation; compartmental models; simulation techniques; applications of simulations; examples and case studies from physical, social, and life sciences, engineering, business, and information sciences.

7560 Computational Methods (3) Prereq.: CSC 4362 or equivalent. Synthesis, implementation, and analysis of numerical algorithms; algorithm concept introduced in context of abstract schema.

7600 High Performance Computing I (3) V Prereq.: CSC 4362 or consent of instructor. Fundamental computational techniques required for scientific computing; important algorithms for parallel computing; high performance computing.

7610 High Performance Computing II (3) V Prereq.: CSC 7600 or equivalent. Finite difference schemes for molecular dynamics; classical deterministic simulations; combinatorial optimization; algorithms for quantum molecular dynamics; scientific applications in high performance computing.

7620 High Performance Computing III (3) V Prereq.: CSC 6000 or equivalent. Basic stochastic simulation techniques for massively parallel computers; simulated annealing and routing algorithms.

7700 Special Topics in Computer Science I (3) May be taken for a max. of 12 hrs. of credit when topics vary. Specialized areas; projects; independent study.

7800 Computer Science Research Seminar (3) V Prereq.: consent of instructor. May be taken for a max. of 2 hrs. of credit when topics vary. Pass-fail grading. Student presentations and discussions on research in the computer science.

7999 Selected Readings in Computer Science I (3-5) Prereq.: consent of department chair. May be taken for a max. of 6.0 hrs. of credit.

9008 Dissertation Research (1-12 per sem.) "S"/"U" grading.

1016 Introduction to Computer Graphics and Numerical Methods (3) 6 hrs. lab. Graphical concepts and techniques relating to computer graphics and nomenclature.

1111 Plan and Cost Analysis for Residential Construction (3) Prereq.: CONS 1101. 6 hrs. lab. Interpretation of working drawings and specifications; cost estimation; bidding; materials; methods, and equipment for residential construction.

1400 Computer Applications in Construction (3) Utilization of computer software for estimating, planning and scheduling, financial analysis, and construction processes.

2121 Materials, Methods, and Equipment I (3) Prereq.: credit or registration in CONS 1111 or consent of instructor for nonconstruction majors. Job planning, work methods, materials, and equipment required in building and heavy construction.

2131 Materials, Methods, and Equipment II (Heavy and Industrial Construction) (3) Prereq.: CONS 2121. Continuation of CONS 2121. Emphasis on both heavy and industrial equipment.

3001 Systems for Construction Management (3) Prereq.: CONS 1400 and 2121. Systems approach to solving complex construction problems; latest mathematical and nonmathematical methods; models developed for construction application.

3083 Structures for Construction (3) Prereq.: CE 3082. Wood design; design of masonry; design of concrete construction.

3110 Soils for Construction (4) Prereq.: CE 3082. 3 hrs. lecture; 3 hrs. lab. Engineering properties of soils and their behavior in heavy earth structures; field testing of soils and techniques for estimation of mechanical properties; soil exploration, testing, treatment, and stabilization; use of organic soils and shells in construction; drainage and settlement problems.

3301 Mechanical Equipment of Buildings (3) Prereq.: PHYS 2001. Type, design, installation, and performance of mechanical equipment used in buildings, including plumbing and air conditioning.

3392 Electrical Installations (3) Prereq.: PHYS 2002. Wiring systems for residential, commercial, and industrial buildings; illumination.

3541 Quantity Surveying, Estimating, and Bidding I (4) Prereq.: CONS 2121. 2 hrs. lecture; 4 hrs. lab. Principles, theory, and systems of estimating and forecasting construction costs; quantity surveys, work classification; pricing and analysis; preparation of total bid package for prospective clients.

3562 Quantity Surveying, Estimating, and Bidding II (4) Prereq.: CONS 2121. 2 hrs. lecture; 4 hrs. lab. Continuation of CONS 3561. Emphasis on industrial construction.

3591 Seminar in Construction (3) Prereq.: senior standing; 12 hrs. of work; and structure for a max. of 6 hrs. credit when topics vary. Research and reports on advanced topics, current issues, or recent developments in the construction industry.

3593 Construction Administration (3) Prereq.: credit or registration in CONS 3561. Principles and theory of ownership, organization, contracts, insurance, bonding, and labor relations pertaining to the construction industry.

3594 Construction Management (3) Prereq.: credit or registration in CONS 3593. Definition, concept, theory, and objectives of construction management; principles of project funding and cash flow; methodologies of construction management; value management, field organization, and case studies.

3595 Selected Topics in Construction (3) Prereq.: 60 hours of work. Lectures on technical and/or specialized areas in construction.

CURRICULUM AND INSTRUCTION - EDCI

1000 Introduction to the Study of Education (3) Credit will not be given for both this course and EDAP 2000. Field experience in multicultural settings in secondary schools. Historical foundations, organization, and administration of American public education.

1001 Introduction to College Study (3) Intended for entering freshmen. College-level readings and techniques for organizing text and lecture information for effective study; critical thinking and reading; time management; preparation for C410.

2025 Foundations and Principles of Teaching in Elementary School (3) 2 hrs. lecture; 2 hrs. field experience
is elementary schools. Open only to students enrolled in programs leading to teacher certification.

3208 Teaching, Schooling, and Society (3 Prereq.: admission to teacher education program or nursery school and kindergarten teaching program, 2 hrs. lecture; 2 hrs. field experience in elementary school; 2 hrs. internship which joins teaching as it operates in elementary school context; a reflective approach to pedagogy; discussions of teaching in the historical and political context of society, educational problems and solutions; the reading process, approaches, skills, and materials.

3216 Reading in the Content Areas (3 Prereq.: EDCC 3115 or equivalent. Courses designed to help teachers to teach reading in all content areas, 3 hrs. lecture; 2 hrs. field experience in multicultural settings. Structures of the social studies disciplines for teaching in the lower/upper elementary school; strategies, techniques, basic rationales, and materials.

3217 Curriculum Disciplines: Social Studies (3 Prereq.: EDCC 2025 or 2030 and concurrent enrollment in EDCC 3125 and 3126. 2 hrs. lecture; 2 hrs. field experience in multicultural settings. Structures of the social studies disciplines for teaching in the lower/upper elementary school; strategies, techniques, basic rationales, and materials.

3215 Teaching Reading in the Junior and Senior High School (3 Prereq.: EDCC 2020 or 2025 or 2030 or 2040 or 2045 or equivalent. Approaches for teaching reading in other education programs and approaches to teaching.

3214 Reading in the Content Areas (3 Prereq.: EDCC 3115 or equivalent. Courses designed to help teachers to teach reading in all content areas, 3 hrs. lecture; 2 hrs. field experience in multicultural settings. Additional training in reading instruction beyond that offered in the basic reading course, 3 hrs. lecture; 2 hrs. field experience in multicultural settings.

3210 Reading, Writing, and Oral Communication in the Elementary School (6 Prereq.: EDCC 2025 or 2030 and concurrent enrollment in EDCC 3125 and 3126. 2 hrs. lecture; 2 hrs. field experience in multicultural settings. Structures of the social studies disciplines for teaching in the lower/upper elementary school; strategies, techniques, basic rationales, and materials.

3223 Adolescent Literature (3 See ENGL 3223.

3400 Educational Principles, Policies, and Practices for Special Populations (3 Prereq.: cohort membership or consent of instructor. 3 hrs. lecture; 2 hrs. field experience in multicultural settings. Current issues in identification, assessment, and instruction in the mainstream classroom for diverse student populations, such as children with disabilities.

3625 Student Teaching in the Elementary Grades (12 Prereq.: see “Requirements for Student Teaching.” 2 hrs. lecture; 30 hrs. lab. Pass-fail grading.

3630 Student Teaching in the Elementary and Secondary Grades (12 Prereq.: see “Requirements for Student Teaching.” 2 hrs. lecture; 60 hrs. lab. Pass-fail grading.

3635 Student Teaching in the Secondary Grades (12 Prereq.: see “Requirements for Student Teaching.” 2 hrs. lecture; 100 hrs. lab. Pass-fail grading.

3641 Student Teaching in Communicative Disorders in the Elementary and Secondary Schools (12 Prereq.: see “Requirements for Student Teaching.” 1 hr. lecture; 50 hrs. lab. Pass-fail grading.

3701 Assessment of Exceptional Children (3 Prereq.: enrollment in EDCC 3125. 1 hr. seminar; 6 hrs. lab. Educa­tion for exceptional children; administration of a battery of tests.

3702 Methods for Designing and Assessing Materials for the Mildly/Moderately Handicapped Student (Prereq.: EDCC 2700 and 2701. 1 hr. lecture/field experience. Formal and informal techniques for effective utilization of materials; evaluation and selection of published materials; design of teacher-made materials.

3703 Methods of Teaching Academic Subjects to the Mildly/Moderately Handicapped (3 Prereq.: EDCC 2700 and 2701. 3 hrs. lecture/field experience. Application of theories, methods, and materials.

3704 Curriculum for the Severely/Profoundly Impaired (3 Prereq.: EDCC 2700 and 2701. Procedures, methods, and materials for teaching severely/profoundly impaired individuals.

3705 Principles and Practices in Kindergarten Education (3 Prereq.: PSYC 2076. 3 hrs. required for registration. Same as HUC 4057. Philosophy, teacher education, in pre-service candidates for kindergarten as an entry point into elementary school.

3706 Methods of Teaching Nursery School and Kindergarten (3 Prereq.: HUCE 2050 or equivalent. 2 hrs. lecture; 2 hrs. lab; 250 gpa required for registration. Same as HUCE 4057. Philosophy, teacher education, in pre-service candidates for kindergarten as an entry point into elementary school.

3707 Prior application, EDCHUHE 4057, or credit or registration in EDCHUHE 4057 for undergraduates; credit or release in EDCHUHE 4057. 1 hr. seminar; 12 hrs. lab; 250 or better gpa required for registration. Same as HUCE 4058. Super­visor observation and evaluation of students in kindergarten programs for varied cultural groups and socio-economic levels.

4113 Language Acquisition and Development of Communication Skills in the Young Child (3 Prereq.: EDCC 3112 or equivalent. Analysis of stages of native language acquisition and development of communication skills in children from birth to six years.

4241 Special Studies in Art Education (3 Research in areas directly related to the teaching of art.

4269, 4270 Art Education Workshop (3.5 Art as an integral part of the school curriculum and classroom procedures, materials, and techniques.

4273, 4274 Art Education in the Elementary and Secondary Schools (3.5 For students concentrating in art education. Development of a functional art program for elementary and secondary schools; philosophy of art education; curriculum construction, teaching methods, planning, and evaluation of the art program. Implications for educational policy and practice.

4451 Principles and Practices in Early Childhood Education (3 Prereq.: cohort membership or consent of instructor. Analysis of critical issues of early childhood education and of research concerning effective teaching, learning, cognition and related approaches to curriculum, instruction, and evaluation; current theoretical and research perspectives; implications for educational policy and practice.

4455 Principles and Practices in K-12 Education (3 Prereq.: cohort membership or consent of instructor.
Analysis of criticisms of K-12 education and of current proposals for reform; conflicting conceptions of teaching, learning, and related approaches to curriculum, instruction, and evaluation; current theoretical and research approaches; implications for educational policy and practice.

4460 Planning, Managing, and Evaluating School Instruction (3) Prereq.: cohort membership or consent of instructor. May be taken for a max. of 6 sem. hrs. when topics vary. Critical issues and pedagogical practices related to the reflective teacher of English, social studies, science, or mathematics.

4470 Reflective Practice in Foreign Language Education: K-12 (3) Prereq.: cohort membership or consent of instructor. Class observation is required. Current theories in foreign language learning; lesson plans for different approaches and methodologies; analysis of textbooks and materials for elementary foreign language instruction.

4606 Materials and Methods for Teaching Computing Science (3) Prereq.: 3 sem. hrs. in computer science or equivalent. 3 hrs. lecture plus field experience. Materials and methods for instruction in computer science.

4635 Internship in Curriculum and Instruction (3-12) Prereq.: permission of the College of Education Office of Clinical Experiences. Pass-fail grading. Specific teaching or practical experience in a public school setting; periodic evening seminars.

701 Problems of Exceptional Children (3) Exceptionality and instructional adaptation; changes required by recent federal and state legislation; information related to the integration of educational services and services offered by other community, state, and national agencies.

7484 Contingency Management with Exceptional Children (3) Prereq.: EDCI 2700 or 2701 or equivalent. Skills for behavior management of children in public school programs; theoretical and historical foundations; practical application of techniques.

7405 Learning and Behavior Principles Applied to Exceptional Children (3) Prereq.: EDCI 4704. 2 hrs. lecture; 2 hrs. lab. Application of advanced principles and practical solutions to problems of mild/moderate and severe/profound exceptionality.

7210 Nonbehavioral Management of Children with Mild/Moderate Exceptionality (3) Prereq.: EDCI 2700 and 2701. Application of theoretically sound nonbehavioral management techniques.

7401 Special Education in the Regular Classroom (3) Strategies and resources for teaching students of cultural diversity in the classroom; development of units and activities of culture.

5800 Special Topics in Education 1-3 Prereq.: consent of instructor. May be taken for a max. of 9 sem. hrs. of credit. New methods, trends, and techniques.

7001 Special Education in the Regular Classroom (3) Not for degree credit for special education students. Methods and techniques for teaching the handicapped student in a regular classroom.

7105 Teaching Reading in the Elementary School (3) Current instructional procedures and research in reading instruction in the elementary school; approaches and ideas for teaching reading to culturally different students.

7106 Teaching Reading to Students with Diverse Cultural Backgrounds (3) Prereq.: EDCI 7105 or 7135 or consent of instructor. Characteristics of learners from different cultural and ethnic backgrounds; materials and approaches which support reading instruction for these students.

7107 Topics in Reading Education (3) Prereq.: EDCI 7105 or 7135 or equivalent. May be taken for a max. of 6 sem. hrs. in different topics; credit varies. Issues and practices in elementary through adult reading education.

7108 Studies in the Teaching of Elementary School Science (3) Prereq.: EDCI 3125 or equivalent. Theoretical foundations, instructional skills, and materials for teaching elementary school science.

7109 Studies in the Teaching of Elementary School Mathematics (3) Techniques and materials for teaching elementary school mathematics; relationship between learning theories and acquisition of mathematical skills and concepts.

7110 Studies in the Teaching of Elementary School Social Studies (3) Methods and materials for teaching elementary-level social studies.


7125 Teaching Reading to the Adult Learner (3) Theory, research, and practical application.

7130 Techniques and Resources for Reading Instruction (3) Prereq.: EDCI 7105 or 7133 or equivalent. Methods and materials in all areas of reading; demonstration and student production; application of materials and methods for effective reading instruction.

7131 Developing Learning Skills Through Content Reading (3) Relationships between learning skills and content. Principle of process; materials and research related to teaching.

7135 Techniques for Teaching Reading in the Middle and Secondary School (3) Teaching reading appropriate for the upper grades, including reading techniques for improving the school reading program.

7140 Studies in the Teaching of Social Studies in Secondary Schools (3) Theory and research with practical application; skills particularly needed to teach social studies in the secondary school.


7142 Studies in the Teaching of English in Secondary Schools (3)

7143 The Teaching of Literature in Secondary Schools (3)

7147 Studies in the Teaching of Secondary School Science (3) Prereq.: EDCI 3147 or equivalent; and science teaching experience. Instructional materials, evaluation practices, and science teaching skills for grades 7-12.

7149 Studies in the Teaching of Foreign Languages (3) Prereq.: completion of an undergraduate foreign language methods course and/or teaching experience; or consent of instructor. Principles and current research related to the teaching of foreign languages.

7170, 7171 Advanced Vocal Pedagogy (2,2) Also offered as MUS 7170, 7171. MUS 7170 compares the various approaches to vocal pedagogy; MUS 7171 presents problems in vocal pedagogies and their solutions; individual research and actual teaching situations.

7172 Stringed-Instrument Pedagogy (2) Also offered as MUS 7172.

7173 Woodwind-Instrument Pedagogy (2) Also offered as MUS 7173.

7174 Brass-Instrument Pedagogy (2) Also offered as MUS 7174.

7175 Percussion-Instrument Pedagogy (2) Also offered as MUS 7175.

7285 Critical Analysis of Current Research in Reading (3) Prereq.: 12 hours of graduate reading courses or equivalent. Evaluation of current and needed research; application of research findings in the instructional program.

7210 Characteristics of Mildly/Moderately Handicapped Children (3) Prereq.: EDCI 2700, 4701 or equivalent. Developmental, social, and emotional characteristics; historical and current issues of special education.

7211 Teaching Academic Subjects To Mildly/Moderately Handicapped Children (3) Prereq.: EDCI 2700, 4701 or equivalent; and EDCI 7210. Prerequisites to academic subjects for mildly/mildly handicapped children; theories and methods for teaching academic subjects.

7212 Methods of Teaching Students with Learning and Behavior Problems (3) Prereq.: EDCI 2700, 4701 or equivalent. Teaching of students with learning disabilities; emphasis on curriculum utilization and adaptations for mildly/mildly handicapped students of all levels; research-based teaching strategies emphasizing learning styles and techniques.

7213 Practicum in Special Education: Mild/Moderately Impaired Children (3-6) F,S,SU Prereq.: EDCI 7210, 7211, 7212, 7213, 7218. 1-3 hrs. lab. Pass-fail grading. Supervised experience in special educational settings.

7247 Teaching in the Science Laboratory (3) Prereq.: EDCI 3147 or equivalent; consent of instructor. Development of content and methodology of teaching in the science laboratory.

7270 Foundations of Art Education (3) Prereq.: graduate standing and consent of instructor. Contemporary activities and trends in art education; critical review of textbooks, journals, and other information sources.

7271, 7272 Development and Administration of an Art Education Curriculum (3,3)

7307 Topics in Curriculum and Instruction (3) May be taken for a max. of 6 hrs. of credit when topics vary.

7308 Topics in Science Education (3) Prereq.: EDCI 3147 or 7108; or equivalent. May be taken for a max. of 6 hrs. of credit when topics vary.

7309 Topics in Mathematics Education (3) Prereq.: EDCI 3147 or equivalent. May be taken for a max. of 6 hrs. of credit when topics vary.

7310 Topics in Social Education (3) Prereq.: EDCI 7110 or 7140; or equivalent. May be taken for a max. of 6 hrs. of credit when topics vary.

7311 Topics in Language Arts Education (3) Prereq.: EDCI 7111 or 7141; or equivalent. May be taken for a max. of 6 hrs. of credit when topics vary. Selected topic in language arts instruction; an introduction to a methodological problem in teaching English language arts.

7312 Diagnostic and Prescriptive Teaching in Mathematics (3) Prereq.: EDCI 3109 or EDCI 7141. Techniques for assessing students' skill levels and understanding in K-12 mathematics and for tailoring instruction to individual needs.

7313 Teaching Literature in the Elementary School (3) Prereq.: EDAF 3551 or equivalent. Role of literature in elementary education; relevant teaching issues and strategies in the integration of literature into the elementary curriculum.

7314 Teaching Written Composition in the Elementary School (3) Prereq.: EDCI 3551 or equivalent. Techniques and practice 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.

7317 Development and Administration of a Secondary Curriculum (3) Prereq.: EDCI 4450 or 4455. Principles of education applied to vital aspects of teaching practice in all content areas; role of the teacher in providing for individual needs and characteristics; multicultural and global education; uses of technology; assessment and evaluation.

7455 Foundations of Secondary or K-12 Educational Theory, Policy, and Practice (3) Prereq.: cohort membership and completion of EDCI 7460, 7461, or consent of instructor. Social contexts, history, and philosophy of current and perennials issues in education; addressing 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 (5) Prereq.: cohort membership or consent of instructor. 1 hr. lecture; 8 hrs. lab. Pass-fail grading. First of two practica in local schools.

7461 Spring Practicum in Secondary or K-12 Schools (5) Prereq.: cohort membership or consent of instructor. 1 hr. lecture; 8 hrs. lab. Pass-fail grading. Second of two practica in local schools.

7465 Seminar: The Teacher-Researcher in Secondary Schools (3) Prereq.: cohort membership or consent of instructor. May be taken for a max. of 6 sem. hrs. when topics vary. Study of teacher-researcher's literature; its application in research. Two credits may be applied toward the graduation requirement in the subject area (English, mathematics, science, or social studies).

7466 Teaching for Communication: K-12 (3) Prereq.: cohort membership or consent of instructor. Class observation is required. Methods and techniques conducive to
3720 Intermediate Microeconomic Theory (3) Prereq.: ECON 2010 and 2020; or 2030. Price determination, resource allocation, and pricing in a market economy.

3900 Selected Topics in Economics (3) Prereq.: ECON 2020 and 2030; or 2010. May be taken for a max. of 6 hrs. of credit when topics vary.

3999 Independent Study: Economic Problems (1-3) May be taken for credit for a max. of 6 sem. hrs. For under-graduate students with a grade-point average of 3.00 or above. Independent economic research and study under the direction of a faculty member.

4010 The United States—Its Economic Growth (3) Prereq.: ECON 2010 and 2020; or 2030; or equivalent. Credit will not be given for both this course and ECON 1010. The American economy; modern problems dealing with money and credit, basic international trade, and American position in world affairs.


4025 The Russian Economy in the 20th Century (3) Prereq.: HIST 4126. Operation, growth, and performance of the Russian economy under the tsarist and Soviet regimes; perestroika (restructuring) under Gorbachev; current economic trends.

4030 Development Economics (3) Prereq.: ECON 2010 and 2020; or 2030. Political, social, and technological factors affecting economic growth and development.

4040 Economic Development Policy (3) Prereq.: ECON 2010 and 2020; or 2030. Role of U.S. and other advanced industrialized countries in the economic development of Third World countries.

4050 Economic Development of Europe (3) Prereq.: ECON 2010 and 2020; or 2030; or equivalent. Major elements in the economic development of resources, transportation, marketing, finance, labor, and economic policy.

4075 American Economic History to 1869 (3) See HIST 405S.

4076 American Economic History, 1860 to the Present (3) See HIST 405T.

4110 Public Finance (3) Prereq.: ECON 2010 and 2020; or 2030. Economic theory applied to the private market and to the public sector; public goods, efficiency, voting, externality, principles of taxation, benefit-cost analysis, and policy analyses of current issues.

4120 Federal, State, and Local Taxation (3) Prereq.: ECON 2010 and 2020; or 2030. Principles of taxation and of Federal, state, and local taxes; emphasis on recent trends in taxation at each level of government and on significance of these trends for individuals and the nation.

4130 Urban and Regional Economics (3) Prereq.: ECON 2010 and 2020; or 2030. Economic analysis of the location and growth of urban centers; emphasis on public policy issues; land-use patterns, measurement and change in regional economic activity, and urban problems such as pollution, urban planning, etc.

4210 Labor Economics (3) Prereq.: ECON 2010 and 2020; or 2030. Causes of economic problems of American wage earners; attempts of wage earners and society to solve these problems through organization and legislation.

4220 Wage and Employment Analysis (3) Prereq.: ECON 2010 and 2020; or 2030. Labor market; labor supply and demand, human capital, racial and sex discrimination, effects of minimum wage laws, causes of various wage and employment differentials.

4320 The Economics of Population and Environment (3) Prereq.: ECON 2010 and 2020; or 2030. Population growth, economic growth, depletion, and pollution in developed and underdeveloped countries; principles of demography and resource management, cost-benefit analysis and literature on externalities; problems of reconciling economic and environmental goals.

4325 Applied Resource Economics (3) Prereq.: ECON 2010 and 2020; or 2030. Analysis of environmental and resource problems; cost-benefit and other empirical techniques used to evaluate policy decisions.

4400 Industrial Organization and Public Policy (3) Prereq.: ECON 2010 and 2020; or 2030. Application of principles of industrial structures, conduct, concentration, monopoly, mergers, innovation, and economics of advertising.

4421 Health Care Economics (3) Prereq.: ECON 2010 and 2020; or 2030. Economics of health care, with particular emphasis on hospitals, physicians, and other health care providers, as well as government programs.

4440 The Economics of Government Regulations (3) Prereq.: ECON 2010 and 2020; or 2030. Economic bases, costs, and benefits of government regulation of economic activity.

4520 International Economics (3) Prereq.: ECON 2010 and 2020; or 2030. Theory and policy of international economic relations and influences of government regulation of economic activity.

4550 Business Cycles and Forecasting (3) Prereq.: ECON 2035 or 3500. Nature and causes of business cycles; practical application of methods used to forecast business trends.

4550 International Finance (3) Prereq.: ECON 2035 or equivalent. International trade theory and practice; foreign exchange rates, instruments, and markets; alternative international currency systems and proposals for reform; the economics of currency and financial instrument futures markets.

4560 Central Banking and Monetary Policy (3) Prereq.: ECON 2035 or 3500. History, economic functions, operating techniques, and policies of central banks; the role of monetary policy in promoting economic stability and growth; the Federal Reserve System and current problems of monetary policy and control.

4610 Introduction to Mathematical Economics (3) Prereq.: ECON 2010 and 2020; or 2030. Introduction to the use of calculus in economics.

4630 Introduction to Econometrics (3) Prereq.: ECON 2010 and 2020; or 2030; MATH 1431 or equivalent; and QBA 2040 or equivalent. Not open to students who have had calculus. Mathematical techniques used for economic analysis and interpretation of quantitative data.

4635 Workshop in Econometrics (3) Prereq.: ECON 2010 and 2020; or 2030; MATH 1431 or equivalent; and QBA 2040 or equivalent. Not open to students with credit in ECON 4630. Program consists of basic background knowledge in econometrics. Techniques of econometrics; estimating the basic linear model and hypothesis testing; empirical illustrations by reference to contemporary economic questions.

4710 Aggregate Economic Analysis (3) Prereq.: ECON 2035 or equivalent. Factors determining aggregate level of national income, employment, and prices; financial markets, interest rates, and the use of monetary and fiscal policy.

4720 The Evolution of Economic Thought (3) Cultural and historical factors influencing different types of economic thought from the ancient world to the present.

5600 Microeconomic Theory for Policy Analysis (3) Also offered as PADM 5605.

5700 Macroeconomic Analysis and Issues (3) Open only to students in the M.B.A. program. Focuses on the magnitude of such variables as aggregate volume of national output and employment, size of national income, and general price level; emphasis on contemporary macroeconomic problems.

5700 Workshop on Economic Education (3) Su only For students with at least a 2.00 GPA in previous work in economics. Basic economic principles and their application to the nation's current economic problems.

5710 Advanced Topics in Economic Education (1-3) May be taken for a max. of 6 hrs. credit. For teachers who wish to investigate more advanced economic concepts and issues.

7070 Theory of Economic Growth (3) Theories of economic growth and their development.

7139 Public Finance Theory (3) Foundations of welfare economics for evaluating efficiency and equity of taxation and public spending policies; incidence and optimality of taxation.

7135 Advanced Topics in Public Finance (3) May be taken for a total of 6 hrs. credit. Prerequisite varies. Special issues in taxation, public expenditures, and political economy.

7240 Seminar in Labor Economics (3) Theoretical and empirical study of wage determination in the labor market; labor force participation rates; discrimination; labor markets, human capital, the inflation-unemployment trade-off.

7310 Seminar in Environmental and Resource Economics (3) Neoclassical and bio-economic tradition of resource utilization; emphasis on biophysical underpinnings of economics drawing from thermodynamics, ecological systems, and demography; ethical issues of stewardship in
**Electrical Engineering**

7720 Price Theory II (3) Prereq.: ECON 7610 or equivalent. Theories of utility, demand, cost, production, factor pricing, and welfare using an advanced mathematical approach.

7725 Advanced Microeconomic Theory (3) Prereq.: ECON 7610 and 7720; or consent of instructor. Advanced principles of price, market, and general distribution, division market structure.

7740 History of Economic Thought: The Classical Period (3) Development of economics as an autonomous science. An examination of the approaches to economic phenomena; special attention to Adam Smith.

7750 History of Economic Thought: Modern Period (3) Development of economics as a formal science. An examination of classical followers of Smith, Marx, 19th century positivism and socialism, the marginal revolution.

7760 Managerial Economics (3) Practical applications of microeconomic theory; management techniques, cost estimation, and analysis of market structures.

7799 Seminar in Advanced Economic Problems (3) May be taken for a max. of 6 hrs. of credit.

8000 Thesis Research (1-12 per sem.) "S" or "U" grading.

8900 Dissertation Research (1-12 per sem.) "S" or "U" grading.

**ELECTRICAL ENGINEERING • EE**

2120 Circuits I (3) Prereq.: credit or registration in MATH 2000 and PHYS 2210. Frequency-domain analysis of electrical networks.


2230 Electronics I (3) Prereq.: EE 2120 and PHYS 2102. Basic theory of semiconductor devices and circuits.

2321 Electronics Laboratory I (2) Prereq.: concurrent registration in EE 2230, 1 hr. lecture; 2 hrs. lab.

2720 Digital Logic I (2) Prereq.: MATH 1550. Basic concepts of Boolean algebra and their applications in switching networks; switching functions; switching expressions and the universal sequence; analysis and synthesis of combinational logic networks; design examples such as half and full adders, multiplexers, decoders, and digital memories.

2950 Comprehensive Electrical Engineering (3) Prereq.: credit or registration in PHS 2102 or equivalent. For non-electrical engineering majors. Elementary circuits, devices, and systems in electrical engineering.

3660, 3681 Special Projects (2,2) Prereq.: consent of instructor. Individual work with instructor on special project selected by instructor and student.

3670 Engineering Practice (3) Prereq.: permission of department and a minimum grade of Pass-fail grading. Students will be supervised by engineers in one or more practical areas.

3720 Digital Logic II (2) Prereq.: MATH 2150. Basic concepts of Boolean algebra and their applications in switching networks; switching functions; switching expressions and the universal sequence; analysis and synthesis of combinational logic networks; design examples such as half and full adders, multiplexers, decoders, and digital memories.

2950 Comprehensive Electrical Engineering (3) Prereq.: credit or registration in PHS 2102 or equivalent. For non-electrical engineering majors. Elementary circuits, devices, and systems in electrical engineering.

3720 Digital Logic II (2) Prereq.: MATH 2150. Basic concepts of Boolean algebra and their applications in switching networks; switching functions; switching expressions and the universal sequence; analysis and synthesis of combinational logic networks; design examples such as half and full adders, multiplexers, decoders, and digital memories.

2950 Comprehensive Electrical Engineering (3) Prereq.: credit or registration in PHS 2102 or equivalent. For non-electrical engineering majors. Elementary circuits, devices, and systems in electrical engineering.

3720 Digital Logic II (2) Prereq.: MATH 2150. Basic concepts of Boolean algebra and their applications in switching networks; switching functions; switching expressions and the universal sequence; analysis and synthesis of combinational logic networks; design examples such as half and full adders, multiplexers, decoders, and digital memories.

2950 Comprehensive Electrical Engineering (3) Prereq.: credit or registration in PHS 2102 or equivalent. For non-electrical engineering majors. Elementary circuits, devices, and systems in electrical engineering.

3720 Digital Logic II (2) Prereq.: MATH 2150. Basic concepts of Boolean algebra and their applications in switching networks; switching functions; switching expressions and the universal sequence; analysis and synthesis of combinational logic networks; design examples such as half and full adders, multiplexers, decoders, and digital memories.

2950 Comprehensive Electrical Engineering (3) Prereq.: credit or registration in PHS 2102 or equivalent. For non-electrical engineering majors. Elementary circuits, devices, and systems in electrical engineering.

3720 Digital Logic II (2) Prereq.: MATH 2150. Basic concepts of Boolean algebra and their applications in switching networks; switching functions; switching expressions and the universal sequence; analysis and synthesis of combinational logic networks; design examples such as half and full adders, multiplexers, decoders, and digital memories.

2950 Comprehensive Electrical Engineering (3) Prereq.: credit or registration in PHS 2102 or equivalent. For non-electrical engineering majors. Elementary circuits, devices, and systems in electrical engineering.

3720 Digital Logic II (2) Prereq.: MATH 2150. Basic concepts of Boolean algebra and their applications in switching networks; switching functions; switching expressions and the universal sequence; analysis and synthesis of combinational logic networks; design examples such as half and full adders, multiplexers, decoders, and digital memories.

2950 Comprehensive Electrical Engineering (3) Prereq.: credit or registration in PHS 2102 or equivalent. For non-electrical engineering majors. Elementary circuits, devices, and systems in electrical engineering.

3720 Digital Logic II (2) Prereq.: MATH 2150. Basic concepts of Boolean algebra and their applications in switching networks; switching functions; switching expressions and the universal sequence; analysis and synthesis of combinational logic networks; design examples such as half and full adders, multiplexers, decoders, and digital memories.

2950 Comprehensive Electrical Engineering (3) Prereq.: credit or registration in PHS 2102 or equivalent. For non-electrical engineering majors. Elementary circuits, devices, and systems in electrical engineering.

3720 Digital Logic II (2) Prereq.: MATH 2150. Basic concepts of Boolean algebra and their applications in switching networks; switching functions; switching expressions and the universal sequence; analysis and synthesis of combinational logic networks; design examples such as half and full adders, multiplexers, decoders, and digital memories.
4270 Optical Electronics (3) Prereq.: EE 3320 or equivalent. 2 hrs. lecture; 2 hrs. lab. Interaction of optical radiation with various media; theory of laser oscillations and specific laser systems; techniques of detection and optical measurement; fiber optic applications.

4320 Microwave Engineering (4) Prereq.: EE 3320 or equivalent. 4 hrs. lecture; 3 hrs. lab. Waveguides, cavities, signal sources, microwave devices.

4330 Antenna Theory and Design (4) Prereq.: EE 3320 or equivalent. 3 hrs. lecture; 3 hrs. lab. Antennas and antenna arrays; measurement of impedances and far-zone radiation patterns.

4340 Fiber Optic and Microwave Propagation (3) Prereq.: EE 3120 and 3320 or equivalent. Wave propagation at microwave and optical frequencies in metallic waveguides and optical fibers.

4420 Electric Machine Analysis (3) Prereq.: EE 3410 or equivalent. Generalized theory of electric machinery; transient and steady-state analysis of symmetrical/unsymmetrical electric machines.

4430 Power System Analysis (3) Prereq.: EE 3410 or equivalent. Power system analysis using computer methods; power flows, short-circuit, and relay protection.

4450 Distribution System Design (3) Prereq.: EE 3410 or equivalent. ABET category: 2 hrs. design; 1 hr. engineering science. Power distribution systems; emphasis on design and application.

4460 Power Electronics (3) Prereq.: EE 3220 and 3410. 2 hrs. lecture; 2 hrs. lab. ABET category: 2 hrs. design; 1 hr. engineering science. Design of power semiconductor converters including controlled rectifiers, inverters, AC voltage controllers, and DC-DC converters.

4480 Nonlinear System Power Analysis (3) Prereq.: EE 3110 or equivalent. Analysis of nonlinear systems; harmonic generation; compensation, and filtering.

4560 Introduction to Modern Control (3) Prereq.: EE 3350. State variable methods for analysis and design of control systems: state variable, stability, and stabilization; observers, control design.

4580 Topics in Control System Design (3) Prereq.: EE 3350. ABET category: 2 hrs. design; 1 hr. engineering science. Compensation of single loop and multiloop systems; state estimation; stability; application to industrial controllers; design using computer simulation packages.

4585 Discrete Control (3) Prereq.: EE 3350. Sampling and reconstruction of signals; analysis of sampled data and discrete time systems; computer-aided analysis and design of discrete time controllers.

4620 Communications (3) Prereq.: EE 3120. Transmission of signals through networks; analog and digital circuits; communication analysis; transmission of data through computer networks; design and analysis of computer networks.

4640 Random Processes I (3) Prereq.: EE 3140 or graduate standing. Random variables, functions of random vectors, expectation, random processes, auto-correlation functions, power spectral density, filtering.

4700 Special Topics in Computer Engineering (3) May be taken for a max. of 6 hrs. of credit when topics vary. Students in curricula other than computer engineering should consult the instructor. ABET category: 3 hrs. engineering science. Selected topics of current interest.

4701 Special Topics in Computer Engineering (3) May be taken for a max. of 6 hrs. of credit when topics vary. Students in curricula other than computer engineering should consult the instructor. ABET category: 1 hr. design; 2 hrs. engineering science. Selected topics of current interest.

4702 Special Topics in Computer Engineering (3) May be taken for a max. of 6 hrs. of credit when topics vary. Students in curricula other than computer engineering should consult the instructor. ABET category: 1 hr. design; 1 hr. engineering science. Selected topics of current interest.

4710 Communications in Computing (3) Prereq.: EE 3720 and 3840. ABET category: 3 hrs. engineering science. Communication principles and codes; network topology and architecture; protocol layers; current and advanced applications.

4720 Structure and Design of Digital Computers (3) Prereq.: EE 3750 and 3751. Design of digital computers; hardware concepts of digital systems including logical functions of hardware components, machine organization, register-transfer level of digital systems, control strategies, and design methodology.

4740 Discrete Structures for Computer Engineering (3) Prereq.: EE 3140 or equivalent. Mathematical logic and proof methods; graph theory; complexity of algorithms; computational complexity of algorithms; digital signal processing, vision, speech, and robotics; VLSI implementations.

4745 Neural Computing (3) Prereq.: EE 3120 and CSC 1250. ABET category: 2 hrs. design; 1 hr. engineering science. Neural networks and automata; network architecture; learning algorithms; neural networks; digital signal processing, vision, speech, and robotics; VLSI implementations.

4750 Microprocessor Interfacing Techniques (4) Prereq.: EE 3750 and 3751. ABET category: 2 hrs. design; 1 hr. engineering science. Real time computing systems; systems components, architectural interface structures, interrupting, interfacing, and multiprocessing.

4770 Introduction to Computer Vision (3) Prereq.: EE 3750 or equivalent. ABET category: 2 hrs. design; 1 hr. engineering science. Computer processing of images, including image acquisition, image capture, and computer systems for processing images; preprocessing techniques; image segmentation; emphasis on design of image processing software.

4785 Introduction to Expert Systems (3) Prereq.: EE 3750 or equivalent. Introduction to expert systems, including rule-based systems; search strategies; representation and logic programming.

4790 Structure of Computers and Computations I (3) Prereq.: CSC 3102 and EE 4730. Hardware and software complexity analyses; storage of both computers and computations.

7000 Advanced Topics in Electrical Engineering (3) May be taken for a max. of 9 hrs. of credit when topics vary.

7091, 7092 Electrical Engineering Research (3) Prereq.: completion of 12 sem. hrs. in the graduate program. Pass-fail grading. Individual study.

7110 Network Analysis and Synthesis (3) Prereq.: EE 3140 or equivalent. Network analysis and synthesis; network graph theory, state variable representation of networks; computer-aided analysis and design.

7120 Linear Active Network Analysis and Synthesis (3) Prereq.: EE 3120 or equivalent. Active network analysis and design, multipath networks, pathological elements, inductors/finite frequency behavior, microwave systems.

7150 Theory and Application of Digital Signal Processing (3) Digital filter design, spectrum analysis, digital hardware implementations, and applications.

7210 Semiconductor Device Modeling (3) Systematic modeling of active and passive solid-state devices; modeling theory to relate device physics to circuit performance; selected circuit applications.

7220 Semiconductor Devices I: Bipolar (3) Prereq.: EE 3322 or equivalent. Semiconductor material properties, equilibrium and nonequilibrium processes, physical principles of p-n junctions, and quasi-neutral material; modeling of diodes and bipolar transistors.

7222 Semiconductor Devices II: Field Effect (3) Prereq.: EE 3322 or equivalent. Surface effects; metal-insulator-semiconductor structure; modeling of MOS capacitors and insulated gate bipolar transistors.

7230 Physics of Device Electronics (3) Semiconductor physics and necessary assumptions for tractable device analysis; elementary statistical physics, transport phenomena in solids, band theory of solids, and semiconductor junctions.

7252 Physics of Small-Geometry Devices (3) Prereq.: EE 7240 or equivalent. Advanced theory and practice to epitope semiconductor devices, hot electron effects, size effects and heterostructure boundaries, heterostructure devices, quanum transport devices, ballistic transport devices, and surfaces and interfaces in heterostructures.

7240 Integrated Circuit Engineering (3) Fabrication processes and device design for monolithic integrated circuits; relation to circuit performance; thin- and thick-film circuits.

7242 VLSI Systems (3) Prereq.: consent of instructor. Design and implementation of very large scale integrated systems; structured design methodology using MOS technology.

7244 Advanced Lithography and Metrology (3) Prereq.: EE 7240 or consent of instructor. Physical principles used in state of the art microlithographic processes. X-rays, e-beams, resists, measurement and inspection techniques.

7260 Semiconductor Power Devices (3) Prereq.: EE 3322 or equivalent. Operation and characteristics of semiconductor power conversion devices with emphasis on physical mechanisms involved; fabrication of energy conversion devices.

7269 Semiconductor Materials (3) Theory and application of crystal growth from melt and chemical vapor deposition; preparation and purification of elemental and compound semiconductors; structural properties and their effect on electrical and physical parameters; amorphous semiconductors.

7270 Magnetic Materials and Devices (3) Prereq.: EE 3320 or equivalent. Theory of magnets and magnetic memory, current developments and applications of magnetic devices.

7310 Electromagnetic Theory and Techniques (3) Electromagnetic theory applied to propagation, waveguides, and microwave systems.

7350 Boundary Value Problems in Engineering (3) Prereq.: knowledge of variables, functions, and integral transforms. Method for solving certain classical partial differential equations, including properties of special functions and their applications to engineering problems.

7410 Parallel Power System Analysis (3) Development of positive, negative, and zero sequence parameters of power system components, and their application in a variety of power system fault conditions.

7420 Power System Dynamics (3) Modern approach to power system transient and dynamic stability studies; detailed synchronous machine models; their linearizations, eigenvalue systems, and multimachine system stability analysis.

7430 Power System Reliability (3) Reliability analysis of power systems, including generation, transmission, and distribution; reliability analysis of power systems, including generation, transmission, and distribution; reliability analysis of power systems, including generation, transmission, and distribution.

7440 Power Transmission and Control (3) Prereq.: EE 4460 or equivalent. Analysis of HVDC transmission systems; high power switches and limitations; converter circuits, modeling control, and stability analysis of the transmission; misoperation of converters; protection, harmonics, and filters.

7450 Power System Protection (3) Identification of conditions requiring protection; special problems associated with protection of various system components; protection device utilization.

7460 Static Power Converters (3) Prereq.: EE 4460 or equivalent. Design of power converters and AC drives, including voltage controllers, PWM inverters, cycloconverter and switched-mode power supplies.

7470 Power Generation and Control (3) Prereq.: EE 4430 or equivalent. Economic dispatch for thermal and hydroelectric power generation systems; control of power generation.


7510 Advanced Control Systems (3) Prereq.: EE 3350 or equivalent. State variable and functional analytical methods for study of discrete and continuous time systems; canonical form, controllability, observability, and system identification; design of state variable feedback controls and state observers; optimal regulator problems.

7520 Optimal Control Theory (3) Prereq.: EE 3350 or equivalent. Dynamic optimization applied to control systems; minimum principle, Hamilton-Jacobi-Bellman theory, dynamic programming, optimal control, linear systems, optimal estimation problem, optimal control problem, and separation principle of optimal stochastic control theory; Kalman filters, diffusion models, nonlinear filters, optimal control discrete-time and continuous-time stochastic systems.
7766 Reliable Design of Digital Systems (3 Prereq.: EE 4570 or equivalent). Test generation for combinational and sequential circuits, self-checking circuits, fault tolerant design, design for test ability, and topics in LSI testing.  
7765 Distributed Computing System Reliability (3 Prereq.: EE 3140 or equivalent). Reliability measures, standards, evaluation, and trends; fault tolerant systems; and statistical dependent failure analysis; distributed and parallel system reliability and availability, graceful degrada- 
dion, performability, software reliability.  
7788 Software Design Principles (3 Prereq.: CSC 3102 or equivalent. Engineering approach to computer software development; structured and modular programming concepts; software design and management; program testing; and correctness proofs; diagnostic tools; software measures; other topics from software engineering.  
7785 Program Parallelization (3 F Prereq.: EE 4730 or equivalent. Analysis and optimization of parallel processing for a variety of architectures; impact on architectural design.  
7798 Structure of Computers and Computations II (3 Prereq.: EE 4730 or equivalent. Theory of computing, and 
time complexity of computations; formal models of com- 
puters and computations.  
7795 Models and Methods for Parallel Computation (3 F Prereq.: EE 4790 or consent of instructor. Abstract models of parallel computation; algorithms, complexity, and simulations.  
8000 Thesis Research (1-12 per sem.) "S"/"U" grading.  
9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.  

ENGINEERING - ENGR  
1050 Introduction to Engineering (2 Prereq.: MATH 1022. History, survey of disciplines, principles of design, 
and environmental aspects of engineering; introduction to unit systems; societal ethics in engineering; mechanical 
and electrical systems.  
1051 Introduction to Engineering Design (1 Prereq.: ENGR 1050. Introduction to concept of engineering design; 
statistical applications in engineering economics; group and individual design projects.  
3049, 3560 Engineering Practice (1-3, 1-3) Su only. Prereq.: for Engineering Practice 3049, 3560. Minimum 
of 6 weeks of full-time employment by an industry partici- pating in the summer program. Same as BAE 3240, 3250, 
CHE 3249, 3250, and ME 3240, 3250. Selected engineering 
problems in an industrial environment.  
9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.  

ENGLISH - ENGL  
Students who are not exempt will be required to pass one, two, or three freshman composition courses. Placement level depends on ACT or SAT scores, and other factors.  
1002 English Composition (3 Prereq.: ENGL 1000 or placement by department. An honors course, ENGL 
1003, is also available. Introduction to writing, persuasive, 
evaluative, and other forms of communication; critical per- 
spectives; section emphasis may vary, consult departmental handbook.  
1003 HONORS: English Composition (3 Same as ENGL 
1002, with special honors emphasis for qualified students.  
1004 English Composition (3 Prereq.: ENGL 1004 or placement by department. Same as ENGL 
1000/1001, with emphasis on usage and idiom problems specific to international students. Required during the first year of residency of international students 
(graduates, undergraduates, and transfer students) who 
demonstrate on the placement examination need for work 
in English, but not at the same level of ENGL 1004. 
Graduate students graded pass-no credit.  
1005 English Composition (3 Prereq.: ENGL 1004 or placement by department. For international students. 
Same as ENGL 1001, with continued work on problems specific 
to international students. Graduate students graded pass-no 
credit.  
1051 Spoken English for International Graduate Assistants (3 Prereq.: oral interview and permission of pro- 
gram coordinator. For current and potential international graduate assistants only. Pass/no credit grading. May be 
taken for a max. of 9 hrs. of credit. Developing spoken English skills (pronunciation, stress, intonation, 
rhythm); improving overall comprehensibility through 
task orientation, drills, and conversation.  
2001 Advanced English Composition (3 Credit will not be 
given for both ENGL 2001 and ENGL 3101. Theory and 
practice of exposition, expository, and prescriptive techniques.  
2002 Business Writing (3 Credit will not be given for 
both ENGL 2002 and 3102. Preparing business documents 
such as reports, articles, and letters.  
2005 Introduction to Writing Short Stories (3 Prereq.: 
courses in English composition. Writing short stories for 
workshop criticism; practice in techniques of using point of view, 
dialogue, setting, and characterization.  
2006 Introduction to Writing Poetry (3 Writing poems for workshop criticism; practice in both open and closed 
forms; emphasis on contemporary techniques and prosody.  
2008 Introduction to Writing Drama (3 Writing plays for 
workshop criticism; practice in techniques of exposi- 
tion, characterization, and dramatization.  
2009 Introduction to Writing Screenplays (3 Writing 
screenplays for workshop criticism; techniques of exposi- 
tion, characterization, and dramatization.  
2100 Descriptive English Grammar (3 Analysis of the 
sentence from the perspective of transformational grammar; 
various approaches to the study of language.  
2102 English Usage (3 Grammar, pronunciation, and 
and vocabulary; language change and contemporary variation; 
role of dictionaries; relationship of aesthetic prejudices and social attitudes to matters of usage.  
2101 HONORS: A Survey of English Literature from 
the Beginnings to 1798 (3 Equivalent to ENGL 2020, 
with special honors emphasis for qualified students. 
2102 HONORS: A Survey of English Literature from 
1798 to the Present (3 Equivalent to ENGL 2022, with 
special honors emphasis for qualified students.  
2204 Critical Strategies (3 Skills for reading and writing about literature from a variety of critical perspectives; 
approaches such as reader response, psychoanalysis, myth, 
new historicism, and feminism applied to a range of liter- 
ary texts.  
2205 Fiction (3 Skills for reading and writing about fiction; 
tation to generic conventions and critical per- 
spectives; section emphasis may vary, consult departmental 
handbook.  
2206 HONORS: Introduction to Fiction (3 Equivalent to 
ENGL 2025, with special honors emphasis for qualified 
students.  
2209 Poetry (3 Skills for reading and writing about poetry; attention to generic conventions and critical per- 
spectives; section emphasis may vary, consult departmental 
handbook.  
2208 HONORS: Introduction to Drama and Poetry (3 
Equivalent to ENGL 207, with special honors emphasis for 
qualified students.  
2209 Drama (3 Skills for reading, watching, and writing about 
theatre, attention to generic conventions and critical per- 
spectives; section emphasis may vary, consult departmental 
handbook.  
2205 Science Fiction Studies (3 Science fiction literature, 
particularly that of the 20th century.  

Byron, Keats: prose fiction and criticism by Mary Shelley, Scott, and Pater.

763 Victorian Prose (3) Social, political, religious, and philosophical works of major essayists and other prose writers.

767 Victorian Poetry (3) Study of the major poets of the period, including Tennyson, Browning, Arnold, and Hopkins.

770, 771, 772 American Literature I, II, III (3,3,3) Study of American literature from the 17th and 18th centuries; (770) the 19th century; and (772) the 20th century.

795, 796 The American Novel I, II (3,3) (795) Survey of American fiction from the beginnings to 1900; and (796) from 1900 to the present.

785 Modern Fiction (3) Development of the modern novel in English, with attention also to Continental fiction.

787 Modern Poetry (3) Major figures of modern British and American poetry.

796 Forms of Prose Fiction (3) Prereq.: admission to M.F.A. program. Prosaic techniques in conventional and experimental short stories, novellas, and novels; elements of plot, characterization, theme, setting, and tone; formal analysis of literary texts related to specific problems of writing.

797 Prose and Poetic Forms (3) Prereq.: admission to M.F.A. program. Representative forms of prose from early sagas to contemporary free verse; relationship to principles of versification; some concurrent practices in writing poetry in specific forms.

799 Forms of Film Writing (3) Prereq.: ENGL 7009. Examining screenplays and teleplays; studying techniques of exposition, characterization, and dramatization.

723 The Autobiography (Classical and modern selections.

194 Feminist Literary Theory (3) Introduction to major issues and methodologies.

197 Chaucer (3) May be taken for a max. of 6 hrs. of credit when topics vary. Poetry and prose in Middle English.

197 Milton (3) Readings and critical analysis of the poetry and prose of John Milton.

173 Literature of the American South (3) Southern writing from colonial times to the present.

174 Afro-American Literature (3) Writings of black Americans, from the colonial/slavery experience through the contemporary period.

180, 781 Modern Literary Critical Theory I, II (3,3) (780) Introduction to major modern approaches to analysis of a literary text; and (781) to major schools of critical thought or the contents of literature.

740 Folklore (3) A field research project is required. Major folklore genres and approaches to their study; relationships between folklore and other disciplines, such as literary study and anthropology.

743 Studies in Folklore (3) May be taken for a max. of 6 hrs. of credit when topics vary. Examination of particular folklore genres or methodologies in the study of folklore.

7724 Studies in Feminist Theory and Criticism (3) May be taken for a max. of 6 hrs. of credit when topics vary. Analysis of a particular aspect of feminist theory, such as feminist psychology, feminist film theory, gender and popular culture.

7739 Studies in Film (3) May be taken for a max. of 6 hrs. of credit when topics vary. Intensive examination of a topic in the history or theory of film, or in the relation of film to literature.

790, 791 Language (3,3) Each course may be taken for a max. of 6 hrs. of credit when topics vary.

792 Old English (3)

793 Middle English (3)

795 Analysis and Evaluation of Expository Writing (3) Study of the writing process and product; problems of composition instruction.

797 Technical Writing Methodology (3) Prereq.: a course in composition research or technical writing. Theoretical approaches and empirical research in scientific and technical communication.

799 Research Methods in Composition (3) Prereq.: ENGL 7915 or 7916.

820 R & S Seminar 1-3 May be taken twice for credit when topics vary.

7923 Practical Criticism (3) Literary analysis for teachers of literature; methods of interpretation and evaluation of poetical and prose materials.

7924 Bibliography and Methods of Research (3) Survey of the development of the western rhetorical tradition as it affects writing discourse; philosophical and practical aspects of theories of discourse; their changing understanding of writing and the composition process.

7924 Studies in Middle English (3) May be taken for a max. of 6 hrs. of credit when topics vary.

792 Beowulf (3)

7940 Studies in Nondramatic 16th Century Literature (3) May be taken for a max. of 6 hrs. of credit when topics vary.

7941 Studies in Nondramatic 17th Century Literature (3) May be taken for a max. of 6 hrs. of credit when topics vary.

7943 Studies in Shakespeare (3) May be taken for a max. of 6 hrs. of credit when topics vary.

7948 Studies in Pre-Shakespearean Drama (3) May be taken for a max. of 6 hrs. of credit when topics vary.

7949 Studies in Jacobean Drama (3) May be taken for a max. of 6 hrs. of credit when topics vary.

7950 Studies in the Nondramatic Literature of the Neoclassical Period (3) May be taken for a max. of 6 hrs. of credit when topics vary.

7960 Studies in the Romantic Period (3) May be taken for a max. of 6 hrs. of credit when topics vary.

7962 Studies in the Victorian Period (3) May be taken for a max. of 6 hrs. of credit when topics vary.

7974 Special Studies in American Literature (3) May be taken for a max. of 6 hrs. of credit when topics vary.

7975 Studies in African-American Literature (3) May be taken for a max. of 6 hrs. of credit when topics vary.

7980 Studies in Modern Literature of the British Isles (3) Special topics related to the period from 1890 to 1945.

7982 Studies in Contemporary Literature (3) May be taken for a max. of 6 hrs. of credit when topics vary. Studies in literature after 1945.

7983 Seminar in Modern Criticism (3) May be taken for a max. of 6 hrs. of credit when topics vary.

7985 Seminar in Modern Fiction (3) May be taken for a max. of 6 hrs. of credit when topics vary.

7986 Studies in the Short Story (3) May be taken for a max. of 6 hrs. of credit when topics vary. History, theory, and development.

7987 Seminar in Modern Poetry (3) May be taken for a max. of 6 hrs. of credit when topics vary.

7988 Seminar in Modern Drama (3) May be taken for a max. of 6 hrs. of credit when topics vary.

7989 Studies in Prose Genres (3) May be taken for a max. of 6 hrs. of credit when topics vary. Nonfiction prose; the essay, history, travel biography, or scientific writing.

8000 Thesis Research (1-12 per sem.) "S" or "U" grading.

8900 Independent Study 1-3 May be taken for a max. of 3 sem. hrs. in a master's program and 9 sem. hrs. in a doctoral program. Directed individual readings guided by the graduate faculty.

9000 Dissertation Research (1-12 per sem.) "S" or "U" grading.

ENTOMOLOGY - ENTM

2001 Insects in the Environment (3) Prereq.: BIOL 1201, 1208; and either PBIO 1202 or ZOOL 1202; or BIOL 1001, 1002, 1003, 1004; or equivalent. 2 hrs. lecture; 2 hrs. lab. Insect recognition, classification, and life cycles; factors affecting insect diversity and abundance; interactions between insects and the natural environment.

2050 Introduction to Pest Management (4) See PLHL 2010.

2050 Household and Structural Pests (3) Prereq.: ENTM 2001. 2 hrs. lecture; 2 hrs. lab. Recognition, and management of pests found in structures.

2003 Medical/Veterinary Entomology (4) E. F. Prereq.: ENTM 2001 or equivalent. 2 hrs. lecture; 3 hrs. lab. Relationship of insects and other arthropods to human and animal health.

2005 Insect Taxonomy (4) F. E. Prereq.: ENTM 2001; 2 hrs. lecture; 6 hrs. lab. Principles and methodology of managing insect pests; emphasis on federal and insect pest management; interdisciplinary perspective.

2011 Biology and Management of the Honey Bee (3) Prereq.: PBIO 1210 or equivalent and either PBIO 1202 or ZOOL 1202; or BIOL 1001, 1002, 1003, 1004 or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Behavior, genetics, pollination, pathology, and practical management of honey bees for agricultural and scientific purposes.


2014 Insect Morphology (3) F. O. Prereq.: ENTM 2001 or equivalent. 2 hrs. lecture; 3 hrs. lab.

2016 Introduction to Insect Physiology (3) F. O. Prereq.: ENTM 2001 or equivalent. 2 hrs. lecture; 2 hrs. lab. Principles and methodology of managing insect pests; emphasis on federal and insect pest management; interdisciplinary perspective.

401 Biology and Management of the Honey Bee (3) Prereq.: PBIO 1210 or equivalent and either PBIO 1202 or ZOOL 1202; or BIOL 1001, 1002, 1003, 1004 or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Behavior, genetics, pollination, pathology, and practical management of honey bees for agricultural and scientific purposes.


403 Medical/Veterinary Entomology (4) F. E. Prereq.: ENTM 2001 or equivalent. 2 hrs. lecture; 3 hrs. lab. Principles and methodology of managing insect pests; emphasis on federal and insect pest management; interdisciplinary perspective.

401 Fundamentals of Horticultural Entomology (3) Prereq.: ENTM 2001. 2 hrs. lecture; 2 hrs. lab. Principles and methodology of managing insect pests; emphasis on federal and insect pest management; interdisciplinary perspective.

401 Fundamentals of Horticultural Entomology (3) Prereq.: ENTM 2001. 2 hrs. lecture; 2 hrs. lab. Principles and methodology of managing insect pests; emphasis on federal and insect pest management; interdisciplinary perspective.

401 Fundamentals of Horticultural Entomology (3) Prereq.: ENTM 2001. 2 hrs. lecture; 2 hrs. lab. Principles and methodology of managing insect pests; emphasis on federal and insect pest management; interdisciplinary perspective.
7900 Thesis Research (1-12 per sem.) "S"/"U" grading.
7909 Research Problems (1-4 per sem.) Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. credit.
7909 Dissertation Research (1-12 per sem.) "S"/"U" grading.

ENVIRONMENTAL STUDIES • ENVS

1000 Environment and Technology: Perspective on Environmental Problems (3) Environmental quality problems involving water, air, and land; analysis of the interrelationships and interplay of ecological stresses; society's response to such problems.
1851 Soils and the Environment (3) Prereq. See AGRO 1051.
2144 Environmental Issues in Economics and Water Resources (3) Economic principles and control mechanisms governing man's interaction with the biosphere; engineering principles and technologies which transform the environment into commodities and unwanted waste; use cycles of water from its source through processing, reprocessing, use, reclamion, and disposal.
4018 Applied Ecology (2) Prereq.: minimum of 10 sem. hrs. of biological and/or physical science. The biosphere, air, land, and aquatic environments; development of alternative techniques for correcting environmental pollution; environmental planning and control.
4181 Environmental Chemistry (2) See CHEM 4150.
4141 Radioecology (3) F See NS 4141.
4149 Design of Environmental Management Systems (3) Environmental systems planning at local, national, and international levels; identification of system requirements and available resources; definition of constraints, establishment of evaluation criteria; evaluation of alternative concepts and plans for subsystems; implementation using qualitative tradeoffs, mathematical models, and computer simulations.
4311 Energy and the Environment (3) Methods of stationary power generation; pollution related to fuel production, transportation, and use; energy use and pollution problems related to transportation; energy resources, regulatory aspects, and control methods related to stationary and moving sources of air pollution.
4599 Health Effects of Environmental Pollutants (3) Prereq.: minimum of 6 sem. hrs. of chemistry and 6 sem. hrs. of either biology or zoology. Effects of environmental pollutants on human health and quality of life.
7019 Mathematical Modeling in Energy and Environmental Management (3) S Prereq.: OCS 4410 or equivalent. Advanced studies in the development of models of energy and environmental systems.
7649 Environmental Planning and Management (3) Prereq.: ENV 7003 or ENV 7005; ENV 7045. Management-oriented approach to making decisions related to conservation and use, determination, implementation, evaluation; theoretical bases and analytical techniques.
7100 Environmental Toxicology (3) Prereq.: VPT 4001. Technical, ecological, and economic considerations relating to air, water, and soil contamination; classification and detection of environmental toxicants; their biological effects on current and future trends in agriculture and the chemical, and power industries.
7110 Toxicology of Aquatic Environments (3) Prereq.: ENV 7005. Physiology, biochemistry, and toxicology of industrial materials related to environmental risk assessment in coastal areas; physical, chemical, and biological factors affecting the aquatic environment, role of toxicants in marine and freshwater coastal areas.
7200 Comparative Metabolism of Environmental Pollutants (3) Prereq.: BCH 4904 or consent of instructor. Same as VPT 4904. Specialization of metabolism from various invertebrates, vertebrates, and plant species involved in metabolic activation and detoxification of xenobiotic substances; use of three methods of pollution impact.
7220 Biochemistry and Toxicology of Metals (3) Prereq.: BCH 4903, 4904; CHEM 2262. Also offered as BCH 7220. Integration of metals and metal complexes with biochemical processes; adaptations of the coordination sphere of metal complexes to function in metabolism; metalloenzymes and metalloproteins; properties and mobilities of metals that impact specialized biochemical function, as well as toxicity, mutagenicity, carcinogenicity.
7500 Special Problems in Environmental Sciences (1-4) ENV 4002 Research and methodological review of current topics.
7955 Environmental Seminar (1) F Report and discussions of student/faculty activities in environmental sciences.
8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

EPIDEMIOLOGY AND COMMUNITY HEALTH • ECH

7001 Seminar: Veterinary Medical Sciences (1) S,F May be taken for a max. of 8 hrs. of credit. Topics of current interest in various disciplines of veterinary medicine.
7002 Veterinary Medical Research Techniques (1-4) May be taken for a max. of 6 sem. hrs. of credit. Specialized research techniques related to a specific discipline of veterinary medicine.
7003 Special Topics in Veterinary Medicine (1-4) Prereq.: consent of instructor. May be taken for a max. of 8 hrs. of credit. Topics of current interest in veterinary medicine.
7203, 7302 Principles and Methods of Epidemiology and Disease Control I, II (4, 4) 7201 offered F; 7302 offered S. Prereq.: consent of instructor. Ecologic and epidemiologic concepts used in studying diseases in populations; epidemiologic methods, with laboratory exercises; the application of ecologic and epidemiologic principles applied to disease control; planning, administration, and evaluation of disease-control programs.
7203 Applied Veterinary Preventive Medicine (2-5) Prereq.: ECH 7301, 7302, and consent of instructor. Principles of epidemiology and disease control applied to planning, administration, and evaluation of veterinary preventive medicine.
7204 Clinical Epidemiology in Companion Animal Practice (2-3) Prereq.: consent of instructor. Epidemiologic principles and disease control methods applied to companion animal practice; problem-oriented case studies on relation of patient and client to community.
7206 Veterinary Medicine and Community Health (2-5) Prereq.: consent of instructor. Legal basis for veterinary preventive medical practice; economic, aesthetic, cultural, and human health factors associated with maintenance of animals; use of community resources to improve animal health.
7207 Project Management (2) V Prereq.: EXST 7003 or equivalent. Management of research projects including objectives in field research and investigations, financial and personnel management, communication of intentions and results, internal control, liaison with other agencies, community acceptance, operational research, and organizational methodologies.
7302 Veterinary Economics (2) Prereq.: AGEC 4013 or 6088, or consent of instructor. Statistical techniques, analysis of farm and national livestock disease programs, analysis of existing and past programs, and forecasting of projected animal health schemes.
7303 Control and Prevention of Poultry Diseases in Tropical Countries (3-5) V Prereq.: consent of instructor. Environmental control, applied nutrition, and management in the occurrence of disease in commercial poultry under tropical conditions; review of significant conditions with special reference to the epidemiology, diagnosis, and prevention of infectious avian diseases.
7310 Zoonotic Infectious and Parasitic Diseases (3) Prereq.: MBIO 4122 and ZOOL 4105 or equivalent. Also offered as MATH 7421. Epidemiology, ecology, and control of major infectious and parasitic zoonoses.
7311 Population Dynamics and Ecology of Parasitic and Vector-Borne Diseases (3) S-O Prereq.: course in parasitology or equivalent. See VMP 7419.
8000 Thesis Research (1-12 per sem.) "S"/"U" grading.
9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

EXPERIMENTAL STATISTICS • EXST

2000 Introduction to Microcomputers (3) F,S, Su 2 hrs. lecture; 2 hrs. lab. A user-oriented introduction to microcomputers and applications software; hardware - DOS, word processing, spreadsheets, data management, graphics, communications, integrated software, desktop publishing.
2005 Introduction to Scientific Sampling (3) Prereq.: MATH 1020/1021 or equivalent. 2 hrs. lecture; 2 hrs. lab. Concept of sampling; requirements for a valid sample; simple random sampling; stratified sampling, systematic sampling, cluster sampling.
2201 Introduction to Statistical Analysis (4) F Prereq.: MATH 1020/1021 or equivalent. 3 hrs. lecture; 2 hrs. lab. Descriptive and inferential statistical methods including confidence interval estimation and hypothesis testing for one and two population means and proportions; one-way analysis of variance; simple linear regression and correlation; analysis of categorical data.
3001 Exploratory Statistical Data Analysis (4) V Prereq.: MATH 1020/1021 or equivalent. 3 hrs. lecture; 2 hrs. lab. Survey of applied statistics; descriptive statistics, statistical inference, analysis of variance, and linear correlation and regression.
3002 Principles and Theory of Statistics (4) F Prereq.: EXST 4001 or equivalent and MATH 1020/1021 or equivalent. 3 hrs. lecture; 2 hrs. lab. Probability distributions, statistical software applications.
4001 Statistical Methods (4) F Prereq.: MATH 1020/1021 or equivalent. 4 hrs. lecture; 2 hrs. lab. Survey of applied statistics; descriptive statistics, statistical inference, analysis of variance, and linear correlation and regression.
4085 Seminar in Statistics (1) V Prereq.: consent of instructor. May be repeated for credit when topics vary. Topics covered in other experimental statistics courses.
7003 Statistical Inference I (F 4) Prereq.: MATH 1020/1021 or equivalent. Credit will be given for only one of the following: EXST 7003, 7004, 7005, 3 hrs. lecture; 2 hrs. lab. Basic concepts of statistical models and sampling; descriptive and inferential methods; normal, t, chi-square, and F distributions; tests of hypothesis and estimation; analysis of variance, correlation, regression analysis, and categorical data; emphasis on social and behavioral sciences research problems; computer software applications.
7004 Statistical Inference II (4) Prereq.: MATH 1020/1021 or equivalent. Credit will be given for only one of the following: EXST 7003, 7004, 7005, 3 hrs. lecture; 2 hrs. lab. Basic concepts of statistical models and use of sampling variability: normal, t, chi-square, and F distributions; test of hypothesis, analysis of variance, regression, and correlation; analysis of results of laboratory and field studies; research problems; computer software applications.
7005 Statistical Techniques I (4) Prereq.: MATH 1020/1021 or equivalent. Credit will be given for only one of the following: EXST 7003, 7004, 7005, 3 hrs. lecture; 2 hrs. lab. Basic concepts of statistical models and sampling; descriptive statistics, 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.
7011 Nonparametric Statistics (3) Prereq.: EXST 7003 or 7004 or 7005 or equivalent. Nonparametric one- and two-sample location and scale tests, including binomial, chi-square, Kolmogorov-Smirnov, Mann-Whitney U, Wilcoxon; analyses of variance, including Cochran's Q, Kruskal-Wallis, Friedman, coefficient of correlation, including Kendall's tau, Speaman's rho, and point biserial.
7012 Fundamental Sampling Techniques (3) Prereq.: EXST 7003 or 7004 or 7005 or equivalent. Sample and subsampling; sample design and selection; sampling; cluster, multistage, and multiphase sampling procedures; systematic sampling; nonresponse and nonsampling errors; links between statistical and political science.
7013 Statistical Inference II (4) Prereq.: EXST 7003 or equivalent. Credit will be given for only one of the following: EXST 7013, 7014, 7015. 3 hrs. lecture; 2 hrs. lab. Analysis of variance and experimental design; completely
randomized and complete block designs; Latin square designs; small and large plots of treatment; multiple comparisons; covariance analysis; multiple and curvilinear regression techniques; emphasis on social and behavioral sciences research needs.

7014 Experimental Statistics II (4) Prereq.: EXST 7004 or equivalent. 3 hrs. lecture; 2 hrs. lab. Credit will be given for only one of the following: EXST 7013, 7014, 7015. Multiple choice problems, analysis of variance, covariance, individual degrees of freedom, factorial arrangement of treatments, and multiple regression; emphasis on experimental designs, analysis of variance and covariance, selected designs, parameter estimation, multiple regression and correlation, tests of specific hypotheses, 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. 3 hrs. Credit will be given for only one of the following: EXST 7013, 7014, 7015. Analysis of variance and covariance, partitioning of variance; covariance among relatives; theory of inbreeding; estimation and testing of genetic parameters; best linear prediction of genetic merit; mixed model analysis; selection theory.

7023 Advanced Topics in Statistical Genetics (3) V Prereq.: EXST 4002 or equivalent and 7022. Topics not covered in Statistical Genetics I include: marker, trait, and QTL mapping; advanced analytical methods, such as best linear unbiased prediction of genetic merit; likelihood-based methods for genetic parameter estimation; analysis of selected population models for quantitative genetic analysis of discrete data.

7024 Biological Population Statistics I (3) V Prereq.: EXST 7005 or equivalent. Specialized sampling for estimation of plant and animal population parameters including density and abundance, survival, recruitment, space-use, and spatial pattern; methods used include quadrats, line transects, point transects, radii, distance techniques, change-in-estimators including capture-recapture and exploitation or catch-per-effort estimators, and home range models.

7025 Biological Population Statistics II (3) V Prereq.: EXST 7005 or equivalent. Extensive development and application of statistical techniques to parameter estimation in population dynamics; principles of model building and role of model building in population management.

7031 Experimental Design (3) S Prereq.: EXST 7013 or 7014 or 7015 or equivalent. Comparison of designs, models, and analyses; emphasis on factorial experiments, complete and incomplete block designs, and confounding.

7032 Survey Design (3) V Prereq.: EXST 7013 or equivalent. Comparison of experimental and quasi-experimental designs; sources of error; variance analysis and confounding in factorial experiments; emphasis on social and behavioral science research problems.

7034 Regression Analysis (3) F Prereq.: EXST 7013 or 7014 or equivalent. Knowledge of matrix algebra. Fundamentals of regression analysis, stressing an understanding of underlying principles; response surfaces, variance analysis, and non-parametric techniques.

7035 Applied Least-Squares (3) S Prereq.: EXST 7013 or 7014 or 7015 or equivalent. Applications of least squares methods; usual constraints, no constraints, and means model constraints to unbalanced cross classified and nested data; emphasis on analysis of variance and covariance for fixed effects models.

7046 Categorical Data Analysis (3) F Prereq.: EXST 7014 or equivalent. Statistical techniques used in analyzing data from discrete distributions; contingency tables, log-linear and logit models, logistic regression, and repeated measures data; emphasis on computer analysis and interpretation.

7057 Multivariate Statistics (3) F Prereq.: EXST 7013 or 7014 or 7015 or equivalent; and knowledge of matrix algebra. Comparison of multivariate techniques and analyses; emphasis on discriminant analysis, factor analysis and principal component analysis, canonical correlation, cluster analysis, and multivariate analysis of variance.

7051 Applied Bayesian Inference (3) V Prereq.: EXST 7003 or 7004 or 7005; or equivalent. Basic decision theory applied to simple classification problems and convenient priors, Bayesian statistical inference, and Bayesian analysis of multiple decision problems.

7060 Probability and Statistics (3) F Prereq.: MATH 2041 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 7050 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 7051. 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) Su Prereq.: EXST 7013, 7014, 4 hrs. Independent study. Pass/fail grading. Supervised application of statistical techniques to research problems; readings, oral presentations, and discussions; statistical consulting; problem-solving; mock-consulting sessions; participation in real-life statistical consulting sessions under faculty supervision.

7084 Practicum in Statistical Consulting II (2) Prereq.: EXST 7083. 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 (1) F/S Su 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.

7099 Independent Study (1-3) F 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.

EXTENSION EDUCATION • EXED

3010 Internship in Cooperative Extension Service (6) Prereq.: Open to selected students completing their junior year who are considering a career with the cooperative extension service. Seven-week period of study, observation, and participation in a Louisiana Cooperative Extension Service parish office, plus a two-week period of classes in extension education. Registration with special permission only.

4010 Cooperative Extension Work (3) F History, organization, relationships, and teaching processes in cooperative extension.

4011 Communications in Extension Education (3) F Synthesis and application of concepts and principles of communication in the extension educational program.

4025 Principles of Adult Education (3) V S Nature and importance of adult education; social and psychological factors of learning; learning methodologies; teaching techniques for providing adult learning experiences.

4026 Informal Education Programs for Youth (3) S Organization, leadership, and evaluation of informal youth education programs.

4039 Topics in International Development (3) May be taken for a max. of 6 hrs. credit when topics vary. Issues related to international development; emphasis on extension and nonformal education programs in third world countries.

7024 Comparative Extension Education (3) S Prereq.: EXED 7122 or equivalent. Comparative analysis of systems of extension education on a world-wide basis.

7122 Program Development (3) F Concepts relating educational planning, planned change, and social change to development of effective extension education programs.

7123 Principles and Problems in Extension Education (3) S Prereq.: EXED 7122 or equivalent. Learning and teaching concepts applied in the execution of an extension educational program.

7122 Evaluation Methods (3) F/S Su Prereq.: concepts and principles of evaluation applied to programs in extension education.

7123 Leadership and Organization (3) S Application of principles and problems in extension leadership, group, dynamics, social organization, and organizational administration to problems of organizing extension education programs.

7124 Advanced Extension Education (3) S Integration of relevant concepts, principles, and research findings in program development, leadership and organization, learning and teaching, and evaluation.

7824 Independent Study in Extension Education (3) Prereq.: May be taken for a max. of 6 hrs. credit. Independent study under the guidance of instructor.

7826 Seminar in Extension Education (1) F May be taken for a max. of 2 hrs. credit. Pass/fail grading. Students critically examine ideas on research and issues.

8000 Thesis Research (1-6) Prereq.: Approval of "U" grade.

8900 Research Problems (1-6) Prereq.: EXED 7022 and a basic graduate-level statistics course. May be taken for a max. of 6 sem. hrs. credit. Research problems in programs of teaching, leadership, organization, or evaluation of extension programs.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

FINANCE • FIN

In the Department of Finance, the second digit of the course number denotes the subject area of the course, as follows: 2—business law; 3—real estate; 4—risk and insurance; 6—finance (capital markets and financial institutions); 7—finance (financial management); 8—finance (investment analysis/portfolio theory); 9—general course.

Prerequisites for any finance course may be waived in exceptional cases with consent of the instructor and approval of the department chair.

3200 Introduction to Law (3) Not open to students in the College of Business Administration. Credit will not be given for both this course and FIN 3201 and 3202. Fundamentals of the legal system; principles of the law of contracts, commercial paper, agency, partnerships, corporations, torts, and crimes; case materials used to demonstrate legal analysis and reasoning.

3201 Business Law (3) Credit will not be given for both this course and FIN 3200. Development of Anglo-American common law, the American constitutional system, and the Louisiana civil law system; law of contracts and agency; social and ethical facets of the legal environment; case materials used to demonstrate problem analysis and solution.

3202 Commercial Transactions (3) Prereq.: FIN 3201. Credit will not be given for both this course and FIN 3200 and 3201. Legal concepts underlying transfer and sale of goods and commercial paper (checks, promissory notes, certificates of deposit, etc.); use of instruments for creating credit (mortgages, pledges, liens, etc.); application of the Louisiana Commercial Code and the Uniform Commercial Code.

3203 Commercial Transactions for Accountants (3) Prereq.: FIN 3201. Credit will not be given for both this course and FIN 3200. Specifically for accounting majors. Legal concepts underlying sale of goods; commercial paper; security interests; partnerships, corporations, and business enterprises; bankruptcy; and business of the CPA examination.

3205 Mineral Rights (3) Prereq.: FIN 3355. Law of mineral rights; emphasis on Louisiana oil and gas law; leases, royalties, interests, title search, unitization, and pooling; mineral law of other states and of hard materials.

3511 Principles of Real Estate (3) Prereq.: FIN 3501. Purchasing, owning, and operating real estate relative to interest in realty, liens, contracts, deeds, titles, leases, brokerage, management.

3522 Real Estate Valuation and Investment (3) Prereq.: FIN 3511 or equivalent. Application of single-family and income-producing real property; techniques for making investment decisions in alternative types of real estate investments; analysis of income producing income effects, financial leverage, risk-return trade-offs, and other methods of disposition.

3533 Real Estate Finance (3) Prereq.: FIN 3531 or equivalent. Real estate financing the fundamentals of underwriting income producing real property; techniques for making investment decisions in alternative types of real estate investments; analysis of income producing income effects, financial leverage, risk-return trade-offs, and other methods of disposition.

3534 Topics in Real Estate (3) Prereq.: FIN 3352 or equivalent. Real estate financing the fundamentals of underwriting income producing real property; techniques for making investment decisions in alternative types of real estate investments; analysis of income producing income effects, financial leverage, risk-return trade-offs, and other methods of disposition.

3535 Real Estate Property Law (3) Prereq.: FIN 3501. Rights and obligations that attach to various types of ownership of
innovable property both in Louisiana and Anglo-American jurisdictions.

348 Risk and Insurance (3) Prereq.: FIN 3201. Nature of insurance and its role in economic and social systems; types and terms of insurance contracts; organizations; principles of insurance accounting; risk pricing concepts.

349 Financial Markets and Institutions (3) Prereq.: ECON 2020 or 2030; QBA 2000; and concurrent registration in ACCT 2021 or 2101. Theoretical and institutional basis for analyzing developments in money and capital markets; financial institutions; risk management; regulations.


351 Multinational Managerial Finance (3) Prereq.: FIN 3715. Financial management and operations of multinational enterprises.

352 Investments (3) Prereq.: FIN 3715. Characteristics and valuation of common stocks, bonds, options, futures, and other financial instruments.

353 Advanced Business Finance (3) Prereq.: FIN 3715. Critical aspects of financial decision making introduced in FIN 3715; mergers and acquisitions, leasing, venture capital, and executive compensation.

354 Multinational Managerial Finance (3) Prereq.: FIN 3715. Financial management and operations of multinational enterprises.

355 Advanced Business Finance (3) Prereq.: FIN 3715. Critical aspects of financial decision making introduced in FIN 3715; mergers and acquisitions, leasing, venture capital, and executive compensation.

356 Security Analysis and Portfolio Management (3) Prereq.: FIN 3862 or equivalent. Analysis of security prices and portfolio diversification in an efficient market; portfolio theory and management; portfolio building and selection; portfolio performance evaluation.

357 Analysis of Corporate Financial Statements (3) Prereq.: FIN 3715 or equivalent. Evaluation of financial statements to determine the liquidity, profit, creditworthiness, and risk exposure of a firm.

358 Speculative Financial Markets (3) Prereq.: FIN 3826 or equivalent. Financial and money markets, financial futures, and options markets; valuation models for the study of speculative and non-specified strategies for hedging and speculation; applications for individual investors, institutional investors, corporate treasurers, and financial institutions.

520 Legal Environment of Business (3) Legal influences on the business environment; sources of law and their effect on business decisions; constitutional problems in employment, taxation, discrimination; administrative and antitrust law; and torts and product liability law; social, ethical, and international facets of the legal system.

7300 Seminar in Business Real Estate (3) Prereq.: See seminar listing. Real estate acquisitions and sales, real estate finance, economic and legal aspects of real estate development, and other topics related to real estate investment and development. (Seminar)

7510 Real Estate Financial Decisions (3) Prereq.: FIN 7717 or equivalent. Decisions facing real estate market participants, including financing, investment, and refinancing; techniques for evaluating real estate investments. (Seminar)

7520 Advanced Topics in Real Estate (3) Prereq.: FIN 7300 or 7310 or consent of instructor. May be taken for a max. of 6.0 hrs. of credit if topics vary.


7570 Seminar in Real Estate Development (3) For doctoral students. Emphasis on real estate development, with special topics.

7585 Advanced Topics in Financial Economics (3) Prereq.: consent of instructor. May be taken for a max. of 9 sem. hrs. of credit. Also offered as ECON 7585. Specific areas in finance and financial economics; emphasis on rigorous empirical methodologies and theory.

7632 Seminar in Commercial Banking (3) Commercial banking theory and practice, quantitative techniques applied to bank asset and liability management, banking structure and function, and financial reporting.

7633 Financial Markets (3) Prereq.: ECON 5700 and QBA 5014. Theoretical and empirical exposition of financial markets and institutions; their role in the economy; determination of prices; factors affecting market prices; and the transaction structure of security returns; emphasis on U.S. financial markets.

7650 Seminar in Financial Markets and Intermediaries (3) Prereq.: FIN 7550. For doctoral students. Markets and intermediaries as alternative institutional mechanisms for structuring financial transactions; transaction services provided by these institutions; benefits and costs of these transaction services as determinants of the structure and extent of the financial sector.

7710 Financial Management for Governments (3) Also offered as PADM 7710. Role of finance in government, impacts on financial markets; role of financial management in government; governmental use of financial management; sources of government funds; allocation of funds; debt management and management of financial assets.

7717 Financial Management (3) Prereq.: ACCT 5001. Limitations of financial theories of capital budgeting, markets, and investment; financial analysis; and evaluation of security risks and returns; recent research in accounting and finance; predictive ability of financial market behavior.

4580 Speculative Financial Markets (3) Prereq.: FIN 3826 or equivalent. Financial and money markets, financial futures markets, and options markets; valuation models for the study of speculative and non-specified strategies for hedging and speculation; applications for individual investors, institutional investors, corporate treasurers, and financial institutions.

Legend for Table 1:

- **Fisheries**
- **Biology**
- **Ecology**
- **Environmental Science**
- **Fish**
- **Mollusks**
- **Biology**
- **Aquatic Plants**
- **Aquatic Invertebrates**
- **Aquatic Ecosystems**
- **Aquaculture**
- **Aquatic Animal Behavior**
- **Aquatic Animal Genetics**
- **Aquatic Animal Physiology**
- **Aquatic Animal Toxicology**
- **Aquatic Animal Ecology**
- **Aquatic Animal Conservation**
- **Aquatic Animal Management**

1001 Natural Resource Conservation (3) F.S. Relationship of humans to the natural environment; ecology and conservation of soil, water, forest, range, wildlife, and fisheries resources.

2001 Introduction to Fisheries and Aquaculture (3) Overview of the history and scope of fisheries and aquaculture; production and harvest of economically important aquatic organisms and invertebrates; role of fisheries and aquaculture professionals in society.

4002 Fisheries Population and Community (3) F 2 hrs. lecture; 3 hrs. lab. Population analysis and community structure.

4021 Limnology (5) F 2 hrs. lecture; 3 hrs. lab. Biological, physical, and chemical aspects of aquatic habitats.

4022 Principles of Aquaculture (4) S Prereq.: 5 hrs. hrs. of introductory zoology and/or biology; or equivalent; 3 hrs. lecture; 3 hrs. lab with occasional extended field trips. Transportation fee.

4023 Marine Invertebrate Fisheries Resources (3) S Optional extended field trips. Transportation fee.

4029 Biology of Fishes (3) Prereq.: FISH 4145 or equivalent. Morphological, physiological, and behavioral aspects of fishes.
adaptations of fishes to their environments; relationships between fish biology and fisheries management.
4040 Fisheries Management (4) F 3 hrs. lecture; 3 hrs. lab. Characteristics of fisheries; dynamics of exploited stocks; socioeconomic aspects of fisheries; fisheries management and research techniques; managing wild fisheries.
4061 Selected or Assigned Fisheries Problem (1-4) F,S,Su May be taken for a max. of 6 sem. hrs. credit.
4100 Animal Cyogenetics (3) F-E Prereq.: AGRI 2072, ZOOL 2153, or equivalent. 2 hrs. lecture; 3 hrs. lab. Heredity and development related from the structure and function of chromosomes; correlation of chromosomal characteristics with patterns of genetic function, phenotypic inheritance, and domestication.
4145 Ichthyology (4) See ZOOL 4145.
4600 Topics in Marine Zoology (2-4) See ZOOL 4600.
7020 Ecology of Fishes (3) S Prereq.: ZOOL 4153 or equivalent. Ecology of fish populations; interactions of fishes and their environment; behavioral adaptations of fishes.
7025 Advanced Aquaculture (3) Su Prereq.: FISH 4022 or equivalent. 4 hrs. lecture; 6 hrs. lab with occasional extended field trips. Transportation fee. Systems and practices for maximizing production and profit of cultured aquatic species; emphasis on international aquaculture systems and techniques in design and operation of management plan for commercial aquaculture.
7026 Shellfisheries Aquaculture (4) F Prereq.: FISH 4022 and ZOOL 4154; or equivalent. 3 hrs. lecture; 3 hrs. lab. with occasional extended field trips. Transportation fee. Principles and practices of the culture of commercially important crusitaceans and mollusks; emphasis on environment; equipment, design, development, management techniques, costs and returns, and processing and marketing in the industry.
7027 Genetics and Culture of Finfish (4) Prereq.: FISH 4022 and ZOOL 2153; or equivalent. 3 hrs. lecture; 3 hrs. lab. Practical culture techniques and methods of breeding for genetic improvement of commercially important finfish.
7029 Advanced Topics in Fisheries (1-4) V May be taken for a max. of 6 sem. hrs. of credit when topics vary.
7070 Seminar I (F,S,Su) May be taken for a max. of 4 sem. hrs. of credit when topics vary. See WILD 7070.
7320 Fisheries Oceanography (3) F See OCS 7320.
7472 Diseases of Aquatic Animals (3) Prereq.: consent of instructor. Basic microbiology and/or parasitology strongly recommended. 2 hrs. lecture; 2 hrs. lab. Same as VMP 7424. Identification, pathogenesis, and control of viral, bacterial, and parasitic agents causing diseases in aquatic animals.
8000 Thesis Research (1-12 per sem.) "S"/"U"/"Y" grading.
8900 Research Problems in Fisheries (1-3) E,S,Su May be taken for a max. of 6 sem. hrs. of credit. Pass-fail grading.
9900 Dissertation Research (1-12 per sem.) "S"/"U"/"Y" grading.

**FOOD SCIENCE - FDSC**

1049 Science of Foods (2) F Concepts and principles related to selection, preparation, processing, preservation, distribution, and use of foods.
3900 Food Science Research (1-3) Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. of credit. Pass-fail grading. Student outlines and executes projects and prepares a written report; problems related to processing, quality control, safety, and nutritional evaluation of food products.
1065 General Food Science (3) N Prereq.: 40 credits for graduate credit for food science majors. Scientific and technological principles related to the physical, chemical, nutritional, and consumer properties of foods; emphasis on ingredients and safety.
1065 Food Engineering Systems (3) S-O Prereq.: FDSC 4000 or equivalent. 2 hrs. lecture; 3 hrs. lab. Application of engineering principles to various unit operations in food processing.
4404 Quality Assurance in the Food Industry (4) S-O Prereq.: See Course Title.
4405 Food Composition and Analysis (4) F Prereq.: FDSC 4000, MIBIO 2051, and either CHEM 2060 or 2062; or equivalent. 2 hrs. lecture; 6 hrs. lab. Principles of official and acceptable chemical, microbiological, and physical methods used in food analysis; application of these methods to examination of raw and processed foods.
4060 Food Chemistry (4) S-E Prereq.: BCH 4087, CHEM 2251, and either FDSC 4400; or equivalent. 3 hrs. lecture; 3 hrs. lab. Chemistry of food components; reactions occurring during processing and storage.
4070 Food Standards, Standsards, and Regulations (2) F Prereq.: consent of instructor. Federal, state, and city food and drug laws; how they regulate manufacture, distribution, and use of foods and regulated products.
4072 Food Preservation (3) F-E Prereq.: CHEM 2252 and either MIBIO 2051, and at least 3 sem. hrs. in any food science course; or consent of instructor. 3 hrs. lecture; 3 hrs. lab. Food spoilage, engineering techniques of food preservation, and food plant sanitation; methods of food preservation.
4076 Food Product Development (3) F-O Prereq.: consent of instructor. Development of new food products; marketing, package design, and other aspects of product development.
4162 Microbiology of the Dairy and Food Industries (4) See S-MBO 4162.
7000 Perspectives in Nutrition (1) F Development of nutrition as a science; current trends in nutritional research.
7010 Food Toxicology (3) S-O Prereq.: MIBIO 2051 and 4152 or equivalent; Introductory food science courses; and consent of instructor. Principles of food safety and toxicology; food-borne infections and poisonings; natural food toxins; food-borne pathogenic microorganisms; etiology of food-borne diseases; microbiological examination of foods; food additives; and food protection criteria.
7071 Common Toxicants in Processed Foods (3) S-E Effects of processing on nutrient retention in food.
7038 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) S-E Prereq.: CHEM 2252, FDSC 4400, and 4000; or equivalent. 2 hrs. lecture; 3 hrs. lab. Methods of chemical, physical, and instrumental analysis in food colors and flavors; natural and synthetic colorings.
7060 Advanced Concepts in Food Science (3) S-O Prereq.: FDSC 4500 and BCH 4087. Analysis of new and progressive concepts in food science.
7071 Seminar in Food Science (1) F May be taken for a max. of 3 hrs. of credit. Selected topics in food science and technology.
7075 Advanced Food Preservation (4) S-E Prereq.: FDSC 4405 or equivalent. 3 hrs. lecture; 3 hrs. lab including field trips to local food processors. Also offered as ANSC 7075 and HORT 7075. Preservation technologies of various raw and processed operations from raw ingredients to final product.
7074 Seminar in Nutrition (1) Prereq.: ANSC 7093, DARY 7094, FDSC 7071, HUCE 7010, PLSC 7010 or equivalent. Consent of instructor. See departmental notice for information at a professional meeting. Same as ANSC 7094, DARY 7094, HUCE 7094, PLSC 7094. May be taken for a max. of 2 sem. hrs. of credit.
8000 Thesis Research (1-12 per sem.) "S"/"U"/"Y" grading.
9900 Dissertation Research (1-12 per sem.) "S"/"U"/"Y" grading.

**FORESTRY - FOR**

1001 Conservation of Forest Resources (2) F,S Resources of forest and range land, including wood, wildlife, recreation, forage, and water; techniques of multiple-use management of forest lands.
2001 Decision Analysis (3) F 1 hr. lecture; 6 hrs. lab. Transportation fee. Principal trees of the U.S.; their identification, classification, nomenclature, and distribution.
2011 Forest Measurements (2) F 1 hr. lecture; 3 hrs. lab. Transportation fee. Use of forestry tools and instruments; techniques for measuring standing trees and wood products; estimating stand volume.
2423 Wood and Wood Products (4) F 3 hrs. lecture; 3 hrs. lab. Structure and identification of wood; basic physical properties and defects; manufacture and uses of forest products.
3001 Cultural Practices in Forestry (4) S Prereq.: FOR 3061 or equivalent. 3 hrs. lecture; 3 hrs. lab. Credit will not be given for this course and FOR 3021. Primarily for students in the Consortium for Applied Forest Systems; development of control strategies for forest systems and their resources; ecosystems and structure; forest genetics and genetic modification; forest biogeography; genetic and evolutionary aspects, autecology, canopy composition, biodiversity, silvics, population ecology, classification principles.
4021 Recreation in the Forest Environment (2) F Prereq.: senior standing. 2 hrs. lecture; 3 hrs. lab. Transportation fee. Resource-oriented recreation in the forest; demand and supply; recreational planning and development of forest lands and waters; basic recreation management policies and principles.
4830 Tropical Forestry (1) V Distribution and characteristics of forest and nonforest plant communities; management; managing the tropical forest resources of the world.
4830 Forest Fire Protection and Use (3) S Prereq.: FOR 3077. 2 hrs. lecture; 3 hrs. lab. Transportation fee. Forest fire control and wildland burns.
3834 Silviculture and Management of Hardwoods (3) S Prereq.: FOR 3002 or consent of instructor. 2 hrs. lecture; 1 hrs. lab. Transportation fee. Culture and management of hardwood forests and related resources; improvement, conservation, and use for forest products, wildlife habitats, and other amenity uses.
2001 Forestry (3) F 2 hrs. lecture; 1 hrs. lab. Transportation fee. Planning and administration of timber harvest; equipment choice, methods of planning, and operational techniques involved in movement of timber products; balancing of harvesting systems.
3035 Ecology and Management of Upland Wildlife (3) F 2 hrs. lecture; 3 hrs. lab; extended field trips. Transportation fee. Prereq.: offered as WILD 4035. Ecology and management of wildlife in upland habitats; recreational leasing of forest land; current issues related to upland wildlife.

3036 Forest Ecology (3) F Prepr.: EXST 2000 and FOR 3036 and 3077. 3 hrs. lecture; 3 hrs. lab. Principles of forest management; stand-level management planning; interactions of growth and management decisions, decision variables, and decision criteria for managing future and current even- and uneven-aged forest stands; forest planning, including traditional forest regulation concepts, harvest scheduling, and multiple-use management.

3037 Forest Economics (3) F Prepr.: FOR 3077 and either 4041, 4050, 4051 or equivalent. Economic theory applied to forest resources and their utilization; application of marginal analysis to forest production; capital supply; forest products application; and economic theory to multiple-use forest management.

3039 Renewable Natural Resources Policy (3) History of forestry and forest legislation; development and evaluation of policies in forestry, wildlife, and fisheries; current issues.

3040 Urban Forestry (3) V 2 hrs. lecture; 3 hrs. lab. Transportation fee. Conceptual role of trees in urban environments; optimization of existing forest areas; species selection and tree establishment in suitable planting spaces; street tree ordinances; tree appraisal and evaluation; street tree planting and management; and meeting the demand for students to market urban design.

3041 Wood Procurement (3) S Prepr.: FOR 3038 and 3093. 2 hrs. lecture; 3 hrs. lab. Transportation fee. Systematic harmonization of value trees for the purpose of managing timber taxation, long- and short-term contracts, and use of public records; timber owner and buyer relations in land and timber acquisition; mill studies and marketing of wood raw materials.

3044 Mechanical and Physical Properties of Wood (3) S Prepr.: FOR 3043 or equivalent. 3 hrs. lecture; 3 hrs. lab. Standard laboratory testing procedures, basic strength determination, working stresses, and timber design.

3045 Design and Control of Wood-Using Processes (3) V Prepr.: CHEM FREN 2043 or equivalent. 3 hrs. lecture; 3 hrs. lab. Basic physical properties of wood to utilization processes involving machining, gluing, and finishing.

3046 Chemical Properties of Wood (4) V Prepr.: FOR 2043: and either CHEM 2000 or 2262. 3 hrs. lecture; 3 hrs. lab. Chemistry of wood, cellulose, lignin, and extraneous materials in wood and bark; chemical utilization and modification of wood.

3047 Seasoning and Preservation (4) V Prepr.: FOR 2043 or equivalent. 3 hrs. lecture; 3 hrs. lab. Principles of lumber drying and wood preservation; economies of the treating industry.

3050 Industrial Forestry Operations (3) F Survey of major forest products corporations; upper management personnel; corporate organization; structure, philosophy, strategy, business outlook; employment, personnel trends; timber procurement, land management, environmental concerns.

3061 Selected or Assigned Forestry Problem (1-4) S,S,F,Su Prepr.: FREN 3071 or 4000 or equivalent; FREN 3071 or 4000 or equivalent; or permission of the instructor. A maximum of 5 sem. hrs. credit.

3064 Forest Tree Improvement (3) F Prepr.: FOR 3002. Genetic basis of variation in natural populations of forest trees; principles for using this variation to obtain genetically improved trees for reforestation; techniques of genetic selection, breeding, progeny testing, tree introduction, and progeny testing.

3066 Research Methodology (3) F Also offered as WILD 7001. Planning, conducting, and reporting of research in the renewable natural resources.

3067 Advanced Silviculture (3) S-S Silvics and silvicultural practices related to the commercially important Southern tree species, especially the pines; silvics and silviculture of several major commercial species outside the southern U.S.

3068 Advanced Forest Soils (3) S-R Prepr.: AGRO 2051 or equivalent. 2 hrs. lecture; 3 hrs. lab. Transportation fee. Prereq.: CHEM 2060 or 2061; or equivalent. 3 hrs. lecture; 3 hrs. lab. Whole-plant responses to environmental factors which affect survival, growth, and reproduction of forest trees and other woody plants; effects of various forest site factors on physiological processes; effects of disease, insects, and yield of trees; interpretation of response of trees to environmental stress.

7035 Advanced Topics in Forestry (1-4) V Prepr.: may be taken for a maximum of 6 sem. hrs. of credit when topics vary.

7036 Advanced Topics in Forest Biometrics and Forest Management (3) V Prepr.: EXST 7014 and FOR 4050; or permission of the instructor. Continuation of elementary forest and growth of yield of forest stands; applications of linear and goal programming, biometrics, and capital budgeting to timber and non-timber forest management.

7041 Advanced Wood Science (4) V Prepr.: FOR 2043. 3 hrs. lecture; 3 hrs. lab. Topics in wood science, including review of selected literature; anatomical, physical, and chemical properties of wood, with emphasis on wood products.

7071 Graduate Seminar in Forestry (1) F May be taken for a maximum of 6 sem. hrs. of credit when topics vary.

8000 Thesis Research (1-12 per sem.) S “S”/U” grading.

8900 Research Problems in Forestry (1-3) F,S,Su May be repeated for credit. Pass-fail grading.

9000 Dissertation Research (1-12 per sem.) S “S”/U” grading.

French

French courses marked with an asterisk (*) may not be taken for credit by native speakers of French.

*1001, 1002 Elementary French (4,4) FS,Su FREN 1001 or equivalent; prior study is prerequisite for FREN 1002. 1001 is only for current students. Credit will not be given for both this course and FREN 1010. Students with previous study of French should enroll in FREN 1050. Credit will not be given for both this course and FREN 1010. Students with knowledge of French; emphasis on communicative language use; supplementary work in language laboratory.

*1050 Intensive Elementary French (4) FS,F,Su for students with previous study of French. Credit will not be given for both this course and FREN 1001 or 1002. Material covered in both FREN 1001 and 1002 is covered in 1050. Intensive work with the basic lexicon and structures of French; emphasis on communicative language use; supplementary work in language laboratory.

*2001 French for Travelers I (3) S FREN 2001 or not applicable toward a major in French. Does not count toward satisfying foreign language requirement for undergraduates, 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 course.

*2030 French for Travelers II (3) S Prepr.: FREN 2001. Credit not applicable toward a major in French. Does not count toward satisfying foreign language requirement for undergraduates. Basic communicative patterns; practical everyday vocabulary, with exercises in comprehension and conversation.

*2092 French for Travelers II (3) S Prepr.: FREN 2001. Credit not applicable toward a major in French. Does not count toward satisfying foreign language requirement for undergraduates, 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 course.

*2103 French Culture and Civilization (3) V Taught in French. French; emphasis on communicative language use; supplementary work in language laboratory.

*3103 French Literature of the 16th Century (3) V Major aspects of the literature of the period; topics will focus variably on an author, a theme, or a genre.

*3104 Introduction to French Linguistics (3) F Prepr.: FREN 2204. Concepts and structures of French; the phonetics, morphology, syntax, and semantics of French as a second language learning acquisition.

*3010 French Literature of the 17th Century (3) V Major aspects of the literature of the period.

*3030 French Literature of the 18th Century (3) V Major literary, philosophical, and scientific currents of the period and their interrelations.

*3031 The French Film (3) V Prepr.: French film students. The French film and its influence on French literature; screening and analysis of representative films.

*3040 French Literature of the 19th Century (3) V Major aspects of the literature of the period.

*3041 Translation Skills (3) S An analytic approach to the structures of English and French; translation techniques and strategies for their translation in literary, technical, and scientific fields.

*3050 French Literature of the 20th Century (3) V Major aspects of the literature of the period.

*3051 French for Business (3) S E Language acquisition for students preparing for careers involving trade or business activities with French-speaking peoples.

*3060 French Literature of Quebec (3) V Major aspects of the literature of Quebec.

*3064 Pidgin and Creole Languages (3) V See ANTH 4024 and LING 4026.

*3065 Louisiana French (3) V Dialiet areas of Louisiana, including Cajun and Creole speech communities; language contact, language variation, and problems of analysis.

*3070 Literature of Africa and the Caribbean (3) V Major aspects of francophone African and Caribbean literature.

*3080 Special Topics in French/ Francophone Cultures and Civilizations (3) V Prepr.: FREN 2204. For advanced students. May be taken for a maximum of 6 hrs. of credit when topics vary.

*3081 French Literature in Translation (3) S Credit not applicable toward a major in French; knowledge of French not required. May be taken for a maximum of 6 hrs. of credit when topics vary.

*3090 French and Francophone Women Writers (3) V Prepr.: 3000-level French course or equivalent. Women's writing in France and Francophone countries from the middle ages to the present.
4095 Studies in Gender and French Literature (3) Prereq.: 3000-level French course or equivalent. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Examination of selected periods, themes, and genres.

4096 Special Topics in French Language and Literature (3) May be taken for a max. of 6 hrs. of credit when topics vary. Topics to be announced.

4100 Independent Work (1-3) F,S,Su May be taken for a max. of 3 hrs. of credit. Readings in French literature directed by a senior faculty member.

7005 François Villon and His Age (2) F Villon and his contemporaries. In the Middle French period, notably Guillaume de Machaut, Eustache Deschamps, Christine de Pisan, Alain Chartier, and Charles d'Orléans.

7006 Studies in Medieval French Literature (3) V May be taken for a max. of 6 hrs. of credit with consent of department if content varies. Topics focus on an author, movement, or literary mode.

7012 Studies in 16th Century French Literature (3) V May be taken for a max. of 6 hrs. of credit with consent of department if content differs. Topics focus on an author, movement, or literary mode.

7013 Montaigne (3) V The Essais and their importance.

7021 French Classicism (3) V The classical mode in 17th century French literature; literary and artistic doctrine, major authors, and genres.

7022 Studies in 17th Century French Literature (3) V May be taken for a max. of 6 hrs. of credit with consent of department if content varies. Topics focus on an author, movement, or literary mode.

7031 Les Philosophes (3) V Aesthetic and language theory as developed in the Encyclopédie and in other major texts of the period.

7032 Studies in 18th Century French Literature (3) V May be taken for a max. of 6 hrs. of credit with consent of department, if content varies. Topics focus on an author, movement, or literary mode.

7041 French Romanticism (3) V Historical, epistemological, and semiotic aspects of French Romanticism.

7042 Studies in 19th Century French Literature (3) V May be taken for a max. of 6 hrs. of credit with consent of department, if content varies. Topics focus on an author, movement, or literary mode.

7051 The 20th Century Novel (3) V The works of such major writers of the modern period as Gide, Proust, Malraux, Camus, Beckett, and Robbe-Grillet.

7052 Studies in 20th Century French Literature (3) V May be taken for a max. of 6 hrs. of credit with consent of department, if content varies. Topics focus on an author, movement, or literary mode.

7021 French Phonology and Morphology (3) V Sound systems, phonological principles and techniques of French phonological and morphological analysis.

7022 French Syntax and Semantics (3) V French transformational generative syntax; modern semantic theory, with emphasis on generative semantics and its relationship to phonology.

7023 French Dialectology (3) V Principles and methods of a real linguistics and social dialectology in French-speaking areas.

7024 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.

7026 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.

7030 Old Provençal (3) V Phonology and morphology of Old C. V pre-Crusader period of literary texts.

7015 Independent Study (1-3) May be taken for a max. of 3 hrs. credit in a master's program and 9 hrs. credit in a doctoral program. Directed individual readings guided by the graduation committee.

7090 Special Topics in French Literature (3) V May be taken for a max. of 6 hrs. credit for the master's degree and 9 hrs. credit for the doctorate when topics vary. Topics to be announced.

7092 Special Topics in French Linguistics (3) V May be taken for 6 hrs. of credit for the master's degree and 9 hrs. of credit for the doctorate when topics vary. Topics to be announced.

7099 Seminar in French Literature (3) V May be taken for a max. of 6 hrs. of credit when topics vary. Topics to be announced.

7090 Topics in Gender Representations in French Literature (3) W Consent of department, may be taken for a max. of 6 sem. hrs. of credit when topics vary. Dynamics of change, influence, and collaboration between men and female writers.

7095 French Feminist Theories (3) Current and past modes of feminist theoretical discourses; implications for literary studies.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

**GEOGRAPHY**

**GEOPHYSICS**

**CORE CURRICULUM**

*(Required of majors.)*

1001, 1003 Human Geography (3,3) Courses need not be taken in this sequence. May be repeated for credit when courses and GEOG 2002. Culture traits—such as languages, religious beliefs, and cultural transformations of natural landscapes—may be divided by the earth’s surface into its most significant parts; the seven culture worlds and their development, present situation, and interaction.

2050 Physical Geography: The Atmosphere (3) Credit will not be given for both this course and GEOG 2006. May be taken for elective geography credit. Physical principles, processes, and operations in the atmosphere; world climatic regions.

2051 Physical Geography: Land and Water Surfaces, Plant and Animal Realms (3) Credit will not be given for both this course and GEOG 2001. 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.

3099 Senior Seminar (1) For geography majors in the senior year. Relationship of the subfields of geography to the overall objectives of the field.

**MAPPING SCIENCES**

*(All majors select three courses.)*

**Cartography**

2039 Cartographic Drafting and Graphic Presentation (3) 3 hrs. lecture; 2 hrs. lab. May be taken for these courses 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.

3099 Seminar (1) For geography majors in the senior year. Relationship of the subfields of geography to the overall objectives of the field.

**Remote Sensing**

4010 Aerial Photo Interpretation of Cultural Features (3) 2 hrs. lecture; 2 hrs. lab. Credit will not be given for both this course and GEOG 2070. Interpretation and analysis of maps and charts, and interpretation of data from aerial photographs.

4010 Aerial Photo Interpretation (3) Prereq.: GEOG 1001 and 1003 or GEOG 2051. Credit will not be given for both this course and GEOG 2019. 2 hrs. lecture; 2 hrs. lab. Analysis and mapping of geologic structure, lithology, and landforms from aerial photographs.

4010 Environmental Remote Sensing (3) Prereq.: consent of instructor. May be taken for elective geology credit. 2 hrs. lecture; 2 hrs. lab. Basic energy and matter relation-ship principles of remote primary sensors; environments studied via remote sensing techniques.

**GIS/Techniques**

4041 Field Methods in Geography (3) 1 hr. lecture; 2 hrs. lab. Cannot be repeated for credit. Students must have Saturdays free. Field methods of representation of the cultural landscape; spring semester emphasis on the physical landscape.

4041 Geographic Information Systems (3) Prereq.: CSC 1140 or equivalent. 2 hrs. lecture; 2 hrs. lab. 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.

4041 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**

*(B.A. candidates select two systematic and one regional course.)*

**Systematic**

4012 Elements of Cultural Geography (3) Culturally oriented proseminar in American geographical thought during the present century.

4040 Political Geography (3) Systematic, cultural-political geography; emphasis on technical and philosophical aspects and on American political landscapes; territorial entities (cultural, national, imperial); role of the lands and seas, nature and objects of war; impacts of political entities on the landscape.

4072 Urban Historical Geography (3) Spatial evolution of cities and city-systems in western civilization through the classical, medieval, mercantile, and industrial periods to 1945.

4073 Urban Geography (3) Internal arrangement, external relations, and locational aspects of urban places, with emphasis on U.S.; urban changes 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 in Developing Countries (3) Geographic theories and methods for analyzing environment and development in developing countries.

4086 Cultural Ecology (3) Also offered as ANTH 4086. Cultural adaptation to physical 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.

4090 Modern India: Society and Culture (3) See SW 4090.

4091 Geography of Louisiana (3) Natural and cultural elements and regions.

4094 The Mountain World (3) Mountain regions and peoples from the Himalayas, Andes, and Alps to the Sierra Nevada and Rocky Mountains; mountain cultures, economies; current development and conservation issues.

4094 Spanish America (3) Physical and cultural geography of Mexico, Central America, and Spanish South America.

4096 Brazil and the Caribbean Area (3) Physical and cultural geography of Brazil, the Guianas, and the Caribbean Islands.

4095 Geographical Survey of East Asia (3) General survey of the physical and cultural geography of the region; focus on economic development and international relations.

4100 Historical Geography of the South (3) Physical and cultural geography of the southern U.S.; emphasis on geographical elements identified with the south and their historical development; environment, exploration, population, agriculture, and cultural landscape.

4100 Anglo-America (3) Credit will not be given for both this course and GEOG 2052. Physical and cultural geography of Anglo-America.
PHYSICAL GEOGRAPHY (B.S. candidates select any three courses.)*

Climatology

4810 Meteorology (3) Prereq.: GEOG 4013 and 4014; or equivalent. 3 hrs. lab. Analysis and interpretation of climatological data and application to physical and human problems.

4817 World Climates (3) Prereq.: GEOG 2050 or equivalent. 3 hrs. Geophysical models that produce differences in climates throughout the world; the earth's problem climates and climatically sensitive zones that are susceptible to floods, droughts, and other environmental stresses.

4818 Geophysical Hydrology (3) Prereq.: MATH 1200/1201 or equivalent. 3 hrs. Analysis of basic hydrologic processes with geophysical perspectives; variability of runoff and groundwater; floods and droughts; climatic and land use impacts on local and global water resources.

Geomorphology and Coastal

4821 Alluvial Morphology (3) Prereq.: GEOG 1001, 1003. 3 hrs. Taken as lab. Field study of processes that originate and change land and hydrographic forms of alluvial surfaces; emphasis onLouisiana.

4822 Geomorphology (3) Prereq.: GEOG 1001, 1003. 3 hrs. Field study of processes of the earth that form and change the land forms of the earth; emphasis on processes that shape the landscape.

4824 Coastal Morphodynamics (3) Prereq.: MATH 1200/1201, 1202, or 1203. Basic morphodynamic processes operative along coasts; emphasis on modern coastal processes and response systems.

4825 The Ocean World (3) May be taken for elective geology credit. Physical geography of the world's oceans; geological and biological aspects of oceanography; ocean-atmosphere interactions; geology and ecology of oceanic islands.

4829 Coastal Resources and Management (3) Introduction to coastal environments and contemporary global coastal and estuarine management.

Biogeography and Environment

4700 Environmental Conservation (3) Factors governing human use of the earth and its resources.

4832 Biogeography (3) Different approaches to description and interpretation of plant and soil distribution patterns.

4833 Quaternary Paleoclimatology (3) Prereq.: GEOG 4082 and a basic course in historical geology, or equivalent. 2 hrs. lab. Emphasis on Quaternary climate, based on archeological and paleoecological data.

4835 Tropical and Subtropical Biogeography (3) Prereq.: GEOG 4082 or equivalent. Includes field trip during spring vacation semester. Principles of tropical ecology and biogeography; field and remote sensing trips for an expedition to tropical America where field methods will be illustrated and ecological diversity studied.

OTHER COURSES


2901 Physical Geography (3) Either GEOG 2050 or 2051 may be substituted for this course. Credit will not be given for both this course and GEOG 2050 or 2051. Analysis of landforms, hydrology, climate, vegetation, and soil, emphasis on world regional patterns.

2902 Cultural Geography (3) The only substantive for this course is satisfactory completion of both GEOG 1001 and 1003. Credit will not be given for both this course and GEOG 1001 or 1003. Nations of the world, integrated into regional patterns.

2905 Practical Geography of Petroleum Resources (3) Geographic aspects of petroleum resources; land and mineral ownership, exploration and utilization of maps, air photos, archives, surveys, and field work; utilization, site analysis, and impact; emphasis on Louisiana and Gulf Coast.

2903 Coastal and Shallow-Marine Depositional Systems (3) See GEOG 4023. May be taken for elective geology credit.

2909 The History of Geography (3) 3 hrs. lecture and planetarium talk. Course content of geography for credit, ancient times; emphasis on the 19th and 20th centuries.

2916 Daltic Geology (3) See GEOG 4106.

2918 Independent Reading and Research in Geography (1-6) May be repeated for credit. An honors course, GEOG 4999, is also available. Supervised reading or research on topics selected by qualified advanced students.

2919 HONORS Independent Reading and Research in Geography (1-4) Same as GEOG 4998 with special honors emphasis for qualified students.

2921 Introduction to Graduate Study (1) Same as ANTH 7901. Techniques and methods of their profession for incoming graduate students.

2962 Settlement Geography: Exploration (3) May be taken for a max. of 9 hrs. of credit with consent of department.

2910 Form-Process Relationships in Coastal Environments (3)

2911 Selected Topics in Geography (3) May be taken for a max. of 9 sem. hrs. when topics vary.

2917 Advanced Physical Geography (3) May be taken for a max. of 9 hrs. of credit with consent of department.

2912, 7922, 7923 Research and Field Work in Geography: Each 3 credits of research, or coursework of geography for credit.

2916 Advanced Geomorphology (3) May be taken for a max. of 9 hrs. of credit with consent of department.

2935 Quantitative Methods for Geographical Analysis (3) Prereq.: EXT 7002 or equivalent. Spatial analytical methods for handling and interpreting data related to geography.

2937 Geographical Literature (3)

2938 Cultural History (3) May be taken for a max. of 9 hrs. of credit with consent of department.

2941 Coastal Ecology (3) Prereq.: GEOG 4028 or equivalent. 2 hrs. lecture, 2 hrs. lab. All students must have weekly field trips.

2942 Coastal Climatology (3) Prereq.: GEOG 4028 and a basic course in either meteorology or climatology, or consent of instructor. Meteorologic and climatic phenomena occurring along the Louisiana coast.

2946 Coastal and Estuarine Resources (3) Prereq.: GEOG 4028 and 4029; or equivalent. Nature of coastal and estuarine resources and their perception, evaluation, and exploitation.

2950 Problems in the Geography of Latin America (3) Prereq.: reading knowledge of Spanish or Portuguese. Problems in the cultural and economic geography of Latin America.

2960 Hydroclimatology (3) Prereq.: GEOG 4014 or 4015 or equivalent: 1 hr. lecture; 4 hrs. lab. Field measurements and laboratory analyses of radiation and water budgets in rural and urban environments; emphasis on evapotranspiration rates and climatic consequences.

2973 Advanced Geographic Information Systems (3) Prereq.: GEOG 4047 or equivalent. Theory and methods of design, development, implementation, and applications of geographic information systems.

2975 Advanced Geomorphology Seminar (3) Y Prereq.: GEOG 4045 or equivalent. May be taken for a max. of 9 sem. hrs. of credit when topics vary. Selected topics in remote sensing.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.
4001 Advanced Physical Geology (3)
4012 Introduction to Micropaleontology (3) F Prereq.: GEOG 2071 or equivalent. Study of deposits, sediments, and the organisms that formed them. Examination of modern and ancient sediments to develop an understanding of their physical, chemical, and biological characteristics.
2071. 2 hrs. lecture; 2 hrs. lab. Phylogenetic study of fossil vertebrates; their origins and relationships; vertebrate taphonomy, biostratigraphy, and fossil collection and preparation.
4014 Chemical Geology (3) F Prereq.: consent of instructor. 2 hrs. lecture; 2 hrs. lab. \textit{lab}. Sedimentary rock processes; interplay between sedimentary and stratigraphic attributes of coastal and shallow-marine lithosomes.
4031 Coastal and Shallow-Marine Depositional Systems (3) Also offered as GEOG 4033. Dynamics of sediment transport in coastal zones and on continental shelves; sea-level change, geology of coastal environments, and stratigraphic relations of tiny assemblages; sedimentary transport and deposition; and drilling and recovery techniques.
4038 Sedimentary Rock Group (3) F Prereq.: GEOG 1001 or equivalent. Study of sedimentary rocks; their origin, formation, and classification.
2071. 2 hrs. lecture; 2 hrs. lab. Geology of the coastal environment.
4043 Analysis for Economic Geology (3) Prereq.: GEOG 2071 and 2081. 2 hrs. lecture; 3 hrs. lab. Geological and economic implications of geologic processes.
4045 Volcanology (3) Prereq.: GEOG 2083 and credit or enrollment in GEOG 4041. Earthquakes and volcanic phenomena produced by volcanism; significance of volcanism to earth and human history.
4046 Earth Physics and Geophysics (3) Prereq.: GEOG 2071 and MATH 1552. Concepts and methods used to study the structure and dynamics of the earth; rotation, gravity, seismicity, internal heat sources, magnetism, paleomagnetism, radioactivity, and deformation.
4047 Plate Tectonics (3) Prereq.: GEOG 2071. Contemporary concepts of plate tectonics; geophysical observations and geological implications.
4048 Introduction to Seismology (3) Prereq.: MATH 2057, 2090, and either GEOG 2071 or consent of instructor. Fundamental concepts and methods in seismic wave analysis; earthquake waves; observational techniques such as reflection, surface waves, earthquakes, and focal mechanisms.
4049 Reflection Seismology (3) Prereq.: GEOG 4067. Seismic reflection techniques used to investigate shallow Earth structure; waves in layered media; correlation, convolution, deconvolution, and spectral analysis; interpretation of seismic records.
4051 Advanced Structural Geology (3) Prereq.: minimum of 20 hrs. in geology courses, including GEOG 2071, 2 hrs. lecture, 3 hrs. lab. Structural geology of the U.S.; its application to problems of folding, faulting, rock mechanics, and plate interactions.
4052 Chemical Oceanography (3) Prereq.: consent of instructor. 3 hrs. lecture/seminar. Also offered as OCS 4126. Controls on the mass balance and distribution of major elements, trace elements, heavy metals, dissolved gases, nutrients, organic and inorganic species, and the creation of open-ocean systems.
4053 Introduction to Geochemistry (3) Prereq.: GEOG 2082 and MATH 1550. Crystal chemistry; application of geochemical methods to determine the origin and evolution of the earth's crust, ocean, atmosphere, and economic resources; major geochemical cycles.
4054 Introduction to Isotope Geology (3) Prereq.: GEOG 2082 and MATH 1550; or equivalent. Principles of nuclear chemistry, radioactive decay, and isotopic fractionation processes; radiometric dating techniques and stable isotope studies.
4055 Geochemistry of Sediments and Natural Waters (3) F Prereq.: GEOG 2082 and MATH 1550. Controls on the composition of natural waters and the fate of fluid-rock interactions in the geochemical evolution of sedimentary rocks, the ocean, and the atmosphere; major geochemical cycles.
4057 Principles of Geology (3) Prereq.: consent of instructor. 2 hrs. lecture; 2 hrs. lab. Phylogenetic study of fossil vertebrates; their origins and relationships; vertebrate taphonomy, biostratigraphy, and fossil collection and preparation.
4131 Basin Analysis (3) Prereq.: GEOG 4031. Basic environmental sedimentary deposition; sedimentological models and their application to depositional basins; analysis of theoretical basin models and comparison with modern and ancient sedimentary basins.
4162 Gulf of Mexico (3) Prereq.: GEOG 2071 and 2081. 2 hrs. lecture; 3 hrs. lab. Techniques for measuring and analyzing sedimentary rocks.
7021 Mesoscopic and Macroscopic Structures (3) Prereq.: GEOG 2071, and credit for GEOG 4071 or 2071. 3 hrs. lecture; 2 hrs. lab. Analysis of geological structures and their application to the interpretation of geological problems.
7033 Mass Spectrometry for Isotope Geology (3) Prereq.: GEOG 4071. Use of mass spectrometry for the determination of isotopes and their application to geologic problems.
7064 Isotope Stratigraphy (3) Prereq.: GEOG 7081. Application of isotope stratigraphy to paleoecological problems; isotope systemsatics of sedimentary depositional environments; emphasis on utilization of isotopes as stratigraphic markers; introduction to geological events from time-series isotope records.
7111 Advanced Micropaleontology (3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit. Advanced training in the identification and study of microfossils for paleoenvironmental reconstruction; regional paleoecology, and paleoecological significance.
7116 Paleontology (3) Prereq.: GEOG 3011 and 4031. 2 hrs. lecture; 2 hrs. field trip. Diversity, structure, taxonomy, and evolution of fossil organisms; environmental and evolutionary changes; adaptations and functional morphology; organismal or evolutionary relationships.
7117 Biostatistics (3) Prereq.: GEOG 3011 or equivalent. A course in modern statistical methods and techniques emphasizing statistical thinking and reasoning; hypothesis testing, parameter estimation, and the interpretation of statistical results.
7128 Paleohydrology (3) Prereq.: GEOG 3011 or equivalent. Patterns and processes of evolution as deciphered from the fossil record; tempo and mode of evolution, hierarchy and macroevolution, mass extinctions, patterns of diversification; emphasis on development of theories and case studies.
7131 Petrology of Sandstones (3) 2 hrs. lecture; 3 hrs. lab. Petrology and petrography of terrigenous sandstones; applications of sedimentary facies analysis to the analysis of provenance, deposition, and diagenesis; emphasis on the interpretation of tectonics and sedimentation.
7132 Dynamics of Sedimentation (3) 2 hrs. lecture, 1 hr. lab. Fluid mechanics as applied to sedimentation, fluid-particle interactions, erosion, mechanics of sediment transport, and the development of modern coasts and oceans; introduction to the study of submarine and onshore sedimentary environments.
7133 Sedimentary Petrology of Carbonates (3) 2 hrs. lecture, 1 hr. lab. Petrology and petrography of carbonate rocks, their sedimentary environments, and the development of modern and ancient carbonate environments.
7134 Clay Mineralogy (3) 2 hrs. lecture; 3 hrs. lab. Application of clay minerals to the study of the origin and evolution of sedimentary rocks and environments.
7163 Mesozoic and Cenozoic Stratigraphy (3) Paleogeographic development of the earth during the Mesozoic and Cenozoic Eras; emphasis on geologic and geophysical topics.
7166 Gulf Coast Geology (8) Prereq.: GEOG 3011 or equivalent. Description of geologic features for a max. of 10 sem. hrs. of credit when topics vary. General student-selected research topics and focused group research, including all topics in geology and geophysics.
GERMAN • GREEK

GERMAN courses marked with an asterisk (*) may not be taken for credit by native speakers of German.

**1200 German for Reading Knowledge (5) Specialized course intended to satisfy departmental foreign language reading requirement for graduate students, but carrying no graduate credit; emphasis on communicative language use; supplementary work in language laboratory.

**1101 Elementary German (4) Basic lexicon and structure of German, emphasis on communicative language use; supplementary work in language laboratory.

**1102 Elementary German (4) Prereq.: GER 1101 or equivalent. Continuation of GER 1101; basic lexicon and structure of German; emphasis on communicative language use. Supplementary work in language laboratory.

2001 Practical German for Business and Travel II (3) Elective credit only; will not count toward foreign language requirement or major. Nontraditional course designed for those with no formal study of German; emphasis on acquisition of skills required for immediate communication in German-speaking countries.

2002 Practical German for Business and Travel II (3) Prereq.: German 2001. Elective credit only; will not count toward foreign language requirement or major; intermediate level, emphasis on skills needed for extended sojourns in German-speaking countries.

2075 German Civilization (3) Knowledge of German not required. Also offered as HIST 2075. Development of the modern German states from early Germanic times; art, literature, music, and philosophy in an historical context.

2098 Germanic Mythology (3) Knowledge of German not required. Germanic myths and legends; their major manifestations in religion, literature, art, and music.

2101 Intermediate German (3) Prereq.: GER 1102 or equivalent. Reading, conversation, composition; review of lexicon and structure.

2102 Intermediate German (3) Prereq.: GER 2101 or equivalent. Continuation of GER 2101; reading, conversation, composition; emphasis on lexicon of spoken German.

2155 Readings in German Literature (3) Prereq.: GER 2102 or equivalent. Analysis of literary texts; expansion of lexis, comprehension, and composition skills.

2562 Advanced German Discourse (3) Prereq.: GER 3501. Advanced course in written and oral expression; emphasis on grammatical structures.

2036 Survey of German Literature: The Beginning to 1350 (3) Prereq.: GER 2055 or equivalent. Readings from the earliest records through the high Middle Ages to approximately 1350, emphasis on the courtly period (1180-1220).

2082 Survey of German Literature: 1700-1830 (3) Prereq.: GER 2155 or equivalent.

2083 Survey of German Literature: 1830-1890 (3) Prereq.: GER 2055 or equivalent.

2084 Survey of German Literature: 1890-1939 (3) Prereq.: GER 2055 or equivalent.

2090 Friedrich Nietzsche (3) Knowledge of German not required. Also offered as PHIL 3090. Major works of Nietzsche studied in the context of the three periods of productivity and evolution of his thought.

2091 Special Topics in German Literature in Translation (5) Knowledge of German not required. May be taken for a max. of 6 hrs. of credit when topics vary.

2490 Germanic Saga and Legend (3) Credit not applicable toward a major in German. Epic tales grouped around cycles such as Thordubric/Dietrich of Bern and Siegfried/Sigurd; transformation of the heroic figure into the legendary hero and chronologic evolution of material from the earliest forms, readings in English translation.

4001 History of the German Language (3) Also offered as LING 4001. Position of German among the Indo-European languages; history of German from the language of its first written records; comparison of development of German to that of English; examination of illustrative passages in various dialects and languages; etymological studies.

4002 German Phonetics (3) Also offered as LING 4607. Analysis of German phonetic principles with extensive practice in forming and controlling sounds in the language; teaching German pronunciation to English-speaking students.

3003 Middle High German (3) Prereq.: GER 2155 or equivalent. Readings of 12th and 13th century literary texts; comparison of Middle High German to modern German; major authors and genres of the period.

4026 19th Century German Drama (3).

4027 Classical German Literature (3) German classicism, with special reference to Lessing, Goethe, and Schiller.

4031 German Poetry (3) Lyric poetry, with emphasis on the period 1750-1925.

4033 The German Novelle (3) History and theory of the genre with extensive readings illustrative of its stages of development from Goethe to Thomas Mann; attention to the novelle of the late 19th century.

4041 Special Topics in Older Germanic Literature (3) May be taken for a max. of 6 hrs. of credit.

4042 Special Topics in 18th Century German Literature (3) May be taken for a max. of 6 hrs. of credit.

4043 Special Topics in 19th Century German Literature (3) May be taken for a max. of 6 hrs. of credit.

4044 Special Topics in 20th Century German Literature (3) May be taken for a max. of 6 hrs. of credit.

4045 The Romantic Movement in Germany (3)

4048 20th Century German Drama (3)

4105 Independent Work (1-3) May be taken for a max. of 3 sem. hrs. credit.

7003 Seminar in German Literature (3) May be taken for a max. of 15 hrs. of credit as topics vary.

GREEK • GREEK

1001 Elementary Greek (5) Readings to provide mastery of simple Greek prose, Greek literature of the late Hellenistic age, and grammar.

2051 Intermediate Greek (5) Prereq.: GREK 1001 or equivalent. Continuation of GREK 1001; readings in prose texts of moderate difficulty.

2053 Homer (3) Prereq.: GREK 2051 or equivalent. Readings from the Iliad or Odyssey; selected passages from various books; some attention to aesthetic and historical problems.

2055 Greek Drama (3) Readings in Greek drama including a representative play of Sophocles or Euripides.

4023 Special Topics in Greek Poetry (3) May be taken for a max. of 6 hrs. of credit. Readings and studies in one or more of the following: Homer, Hesiod, Pindar, Greek lyric poetry, Anacreon, Sophocles, Euripides, Aristophanes.

4024 Special Topics in Greek Prose (3) May be taken for a max. of 6 hrs. of credit. Readings and studies in one or more of the following: Herodotus, Thucydides, the Pre-Socratics, the atomists, Plato, Aristotle.

4105 Independent Work (1-3) May be taken for a max. of 6 hrs. of credit. Readings in Greek literature directed by a senior faculty member.

7003 Seminar in Greek Literature (3) May be taken for a max. of 15 hrs. of credit as topics vary.

HISTORY • HIST

1001 Western Civilization to 1500 (3) An honors course, HIST 1002, is also available. Ideas, trends, and institutions in western civilization from earliest times to the Reformation.

1002 HONORS: Western Civilization to 1500 (3) Same as HIST 1001, with special honors emphasis for qualified students. Independent reading and study.

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. Independent reading and study.

1105 Great Figures in World History (1) Lives and times of selected men and women who influenced events, institutions, and thought of world history.

1195 Great Figures in American History (1) Lives and times of selected men and women who influenced events, institutions, and thought of American history.

2001 The Ancient Near East and Greece (3) Development of civilizations and thought in the earliest civilized societies of the Ancient Mediterranean, from the beginning of civilization to the end of the Hellenistic Age.

2002 Rome: Republic and Empire (3) Development of the Roman state, society, and thought from the prehistory of Italy to St. Augustine.

2011 England: Roman Times through 1688 (3)

2012 Britain from 1689 to the Present (3)

2021 Modern Europe (3) Political, economic, and social developments and diplomacy from the Renaissance to 1848.

2022 Modern Europe (3) Political, economic, and social developments and diplomacy from 1848 to the present.

2023 The World Since 1945 (3) Major events since 1945 in the U.S., U.S.S.R., and selected nations of western Europe, the Middle East, Latin America, Africa, and Asia; emphasis on social, economic, and political conditions affecting individuals both at home and abroad.

2055 The United States to 1865 (3) An honors course, HIST 2056, is also available.

2056 HONORS: The United States (3) Same as HIST 2055, with special honors emphasis for qualified students.

2057 The United States from 1865 to the Present (3) An honors course, HIST 2058, is also available.

2058 HONORS: The United States (3) Same as HIST 2057, with special honors emphasis for qualified students.

2601 African-American History (3) Social, cultural, and economic role of African-Americans in the U.S. from 1619 to the present.

2075 German Civilization (3) See GER 2075.

2085 Colonial Latin America (3) Colonial period emphasizing the European background, explorations, political and economic systems, and wars of independence.

2086 Latin America Since Independence (3) Latin American countries in the 19th and 20th centuries; search for political stability, economic and social progress, and international relations.

2095 East Asian Civilization to 1300 (3) Interdisciplinary and cultural approach to the civilization of East Asia, particularly China and Japan, from antiquity to early contacts with the West.

2096 East Asian Civilization since 1300 (3) Modern East Asia; emphasis on contact with the West, and the rise of nationalism and communism.

2135 Introduction to Russian Culture and Civilization (3) See RUS 2135.

3971 Louisiana (3) Political, economic, social, and cultural development.
HONORS • HNRS

1001 Seminar in Ancient Western Civilization (3) Prereq.: ENGL 1000/1001 or equivalent. Coreq.: HNRS 1101. Credit will not be given for both ENGL 1000/1001 and HNRS 1101. Curricular equivalent of ENGL 1002, 1003, or a humanities elective. The ancient world, including literature, history, philosophy, religion, government, and fine arts.

1003 Lectures in Ancient Western Civilization (3) Coreq.: HNRS 1001. Credit will not be given for both this course and ENGL 1003. Curricular equivalent of ENGL 1004, 1005, or a humanities elective. Lectures, readings, and examinations coordinated with HNRS 1001.

1004 Introduction to the Home Sciences (4) 2 hrs. lecture; 4 hrs. lab. Not open to students who have had ZOOL 1202, 1203, 1209; BIOI 1001, 1002, 1201, 1208; or PBO 1202. 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. May not be taken for both this course and INRS 1001, 1003, 1005, 1007, or a humanities elective. Offerings, readings, and examinations coordinated with HNRS 1010.

1101 Seminar in Comparative Civilizations (3) Prereq.: ENGL 1000/1001 or equivalent. Coreq.: HNRS 1101. Credit will not be given for both this course and HNRS 1001, Curricular equivalent of ENGL 1002, 1003, or a humanities elective. Coreq.: HNRS 1001. An interdisciplinary study of the history, literature, philosophy, religion, and art of five ancient civilizations: Greek, Indian, Chinese, Japanese, and Meso-American.

1103 Lectures in Comparative Civilizations (3) Coreq.: HNRS 1101. Credit will not be given for both this course and HNRS 1003, Curricular equivalent of a 3 hrs. history elective. Offerings, readings, and examinations coordinated with HNRS 1101.

2002 Seminar in Roman and Medieval Civilization (3) Prereq.: HNRS 1001 and 1101; or ENGL 1002; or ENGL 1003. Coreq.: HNRS 2002. Lec- tures, readings, and examinations coordinated with HNRS 2002.

2011 The Age of Enlightenment (3) Literature, philosophy, history, art, and science of the age of enlightenment.

2012 The 19th Century (3) Perspectives fundamental to 19th century culture, relevant works of literature, philosophy, history, and science, and art.

2013 The 20th Century (3) May be taken for a max. of 6 hrs. of credit. Selected themes in 20th century civilization.

2201 Colloquium in the Arts (3) May be taken for a max. of 6 hrs. of credit. Art forms and their cultural significance; particular themes involving examination of art works.

3001 European Civilization from 1400 to 1789: The Old Regime (4) Continuation of HNRS 2003, 2004; interdisci- plinary presentation of development of western civilization from the Renaissance through the Enlightenment; literature, history, philosophy, religion, government, and fine arts.

3003 Western Civilization from 1789: The Modern World (4) Continuation of INRS 3001; interdisciplinary presentation of development of western civilization from the era of revolution to the present; literature, history, philosophy, religion, government, and fine arts.

3030 Humanities Colloquium (3) May be taken for a max. of 6 hrs. of credit. Art forms and their cultural significance; particular themes involving examination of art works.

3031 American Studies (3) May be taken for a max. of 6 hrs. of credit when topics vary. Selected topics in American studies.

3033 Social Science Colloquium (3) May be taken for a max. of 6 hrs. of credit when topics vary. Topics of signifi- cance from the standpoint of various social sciences.

3035 Natural Science Colloquium (3) Prereq.: completion of one-year course in a physical science and one-year course in a biological science, at least one with labora- tory or senior level. Topics of significance from the standpoint of various natural sciences.

7955, 7956 Reading Seminar in American History from 1865 to the Present (3,3) 7955 and 7956 must be taken together.

7957 Research Seminar in American History (3) Intro- duction to research methods, sources, and bibliography; reports on original research.

7958 Research Seminar: Special Topics in American History (3) May be taken for a max. of 6 hrs. hrs. of credit when topics vary. Reports on original research.

7959 Reading Seminar: Special Topics in American History (3) May be taken for a max. of 6 hrs. hrs. of credit when topics vary. Reports on original research.

7970 Reading Seminar in Comparative History (3) May be taken for a max. of 6 hrs. hrs. of credit when topics vary.

7981, 7982 Seminar in Latin American History (3,3) Sources and bibliography, reports on original research.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

HOME ECONOMICS EDUCATION • HEED

2008 Individual Field Experience in Occupational Home Economics (1-3) Prereq.: consent of instructor. A max. of 3 sem. hrs. of credit may be earned in each occupational area. Field-based study in selected businesses and industries; emphasis on business practices, procedures, and regulations in a specific occupational home economics area.

4003 Independent Reading and Research in Home Economics Education (1-3) Prereq.: consent of director and instructor. May be repeated for a max. of 3 sem. hrs. credit. Students are responsible for registering with a faculty member with whom they will select the area of research and research. Faculty-directed individual study.

4004 Methods in Home Economics Education for Non-Education Majors (3) 2 hrs. lecture; 2 hrs. lab. Open to sophomore and graduate home economics majors. Methods and procedures of preparing classroom lessons and teaching in the secondary school which incorporate various socioeconomic levels.

4007 Organization and Administration of Home Economics Occupational Programs (3) Prereq.: VED 2001 or equivalent. Principles of operating Home Economics Related Occupational (HERO) programs; emphasis on developing student employability in work areas earning established home economics programs; includes program standards, require- ments, and procedures, curriculum, public relations, teaching materials, and assessment of program effectiveness (in-school, laboratory) and cooperative home economics programs.

4008 Advanced Individual Field Experience in Occupa- tional Home Economics (3-3) Prereq.: consent of instruc- tor. A max. of 3 sem. hrs. of credit may be earned in each occupational area. Field-based study in selected businesses and industries to learn management strategies, personnel supervision, promotion techniques, and executive planning in a specified occupational home economics area.

4464 Adult and Nonformal Home Economics Education (3) 2 hrs. lecture; 2 hrs. lab. Working with adults and youth in community agencies and other programs with clientele outside the formal school system.

4569 Special Topics in Home Economics Education (1-3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. hrs. of credit. Current practices and technological advances in vocational home economics.

7162 Program Development in Home Economics Educa- tion (3) V Principles and applied practices in developing programs in home and family life education for multi- cultural groups.

7162 Program Improvement in Home Economics Education (3) Principles and procedures for evaluating and improving home economics programs, social, super for diverse groups.

7864 Seminar in Home Economics Education (1) May be taken for a max. of 6 hrs. of credit. Research reporting and topics of current interest.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.
Horticulture - Hort

2650 General Horticulture (4) F.S 3 hrs. lecture; 2 hrs. lab.
Principles and practice of modern horticultural production, including propagation methods, pest control, and pruning; major groups of garden crops including vegetables, fruits and nuts, ornamentals, houseplants, and florist crops; lab includes propagation and culture of garden plants in field and greenhouse.

2661 Plant Propagation (3) S-O Prereq.: HORT 2500. 2 hrs. lecture or equivalent. Principles of sexual and sexual propagation; specific methods for reproduction of plants.

2676 Foliage Plants and Greenhouse Management (3) F-E 2 hrs. lecture; 2 hrs. lab. Managing commercial and home greenhouse; identification and study of major green house foliage plants.

3000 Horticultural Internship (3) Prereq.: HORT 2500 and written consent of Instructor. May be taken for a max. of 4 hrs. credit. No credit experience in horticulture industries in acceptable written reports and a seminar presentation.

3009 Research Problems (3) May be taken for a max. of 6 sem. hrs. credit. Independent research under a faculty member culminating in an oral and written research report.

3012 Culture and Management of Fruit, Nut, and Vege-
table Crops (3) S-E Prereq.: HORT 2500 or equivalent. 2 hrs. lecture; 3 hrs. lab. Required field trips. Culture and management of fruit, nut, and vegetable crops production; review of Louisiana commercial fruit, nut, and vegetable crops industries.

3015 Urban Landscape Management (3) S-E Prereq.: HORT 2500 and LA 2112 or equivalent, 2 hrs. lecture, 2 hrs. lab. Management of the landscape through proper installation, soil management, plant care, pesticide management, employee management, and cost accounting.

4010 Tropical/Subtropical Horticulture (3) S-E Prereq.: HORT 2500 or equivalent. Current status of cultivation throughout the world; production practices; postharvest handling; international trade of tropical/subtropical horticultural crops.

4012 Special Topics in Horticulture (1-3) V Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Lab/field trip may be required. Subject not to overlap other horticulture areas.

4021 Florist Crop Production (3) S-E Prereq.: HORT 2500 or equivalent, 2 hrs. lecture; 2 hrs. lab. Principles and practices involved in production of a range of horticultural crops, including garden plants and cut flowers; post-harvest treatment and marketing practices.

4591 Processing of Fruits and Vegetables (3) S-O Prereq.: FSC 1049 or HORT 2500 or equivalent. 2 hrs. lecture; 2 hrs. lab. Methods of processing horticultural crops; includes canning, freezing, dehydration, and fermentation.

4564 Principles of Plant Breeding (4) See AGRO 4064.

4571 Nursery Management (3) F-O Prereq.: PBO 3060 or equivalent, 2 hrs. lecture; 2 hrs. lab. Required field trips. Principles and practices involved in commercial propagation management of marketing of nursery crops.

4601 Principles and Practices in Orlicericulture (4) F-E Prereq.: AGRO 2051 and HORT 2500. 3 hrs. lecture; 3 hrs. lab. Required field trips. Review of U.S. commercial vegetable production: seed handling, field microclimate modification, transplant handling, stand establishment, influence of soil chemical and physical properties, and greenhouse vegetable production; identification.

4605 Principles and Practices in Fruit and Nut Production (4) S-O Prereq.: HORT 2500 or equivalent, 3 hrs. lecture; 2 hrs. lab. Required field trips. Physiological principles involved in growing pomological crops; overview of state, U.S., and worldwide fruit and nut industries; marketing and production strategies.

4610 Turf, Forage and Nursery Management (3) S-E Prereq.: PBO 1202, AGRO 2501 or equivalent, 2 hrs. lecture; 3 hrs. lab. Required field trips. Also offered as AGRO 4068. Turfgrass identification and adaptation; establishment and maintenance of high quality turf areas; turfgrass pests and their control.

4694 Golf Course Operations (4) S Prereq.: HORT 4086. 3 hrs. lecture; 1 hr. lab. Design, construction; construction; cultural practices; environmental concerns.

4696 Postharvest Physiology (4) S-E Prereq.: PLHL 3000. 3 hrs. lecture; 2 hrs. lab. Physiological changes associated with storage; ripening, pre- and postharvest; current practices used in extending shelf-life; basic and applied laboratory analysis techniques.

7023 Growth and Development of Horticultural Crops (3) F-E Horticultural plant constituents, their occurrence, transformation, and metabolism; changes induced by plants in variables such as light, temperature, nutrition; growth analysis of selected higher plants; media preparation; cell, callus, and organ cultures; protoplast isolation, culture, and fusion; embryo genesis and plant regeneration and haploid culture.

7077 Advanced Plant Breeding (4) S-E See AGRO 7070.

7071 Advanced Plant Genetics (4) S-O Prereq.: AGRI 2072 or equivalent. See also AGRO 7071. Theory and practical application of cytogenetics, extrachromosomal inheritance, and molecular techniques in plant genetics.

7074 Quantitative Genetics in Plant Improvement (3) See AGRO 7074.

7075 Advanced Food Preservation (4) See FDSC 7075.

7913 Seminar (1) May be taken for a max. of 4 hrs. of credit. Topics of current interest in horticulture.

8000 Thesis Research (3) S”/U” grading.

8500 Research Problems in Horticulture (3) Prereq.: consent of department head. May be taken for a max. of 6 hrs. of credit when topics vary. Students working in horticulture may take this course only once. Pass-fail grading.

9000 Dissertation Research (1-12 per sem.) S”/U” grading.

Human Ecology - HUEC

In the School of Human Ecology, the third digit of the course number denotes the subject area of the course as follows: 1 and 2—Human nutrition and food; 3 and 4—apparel, textiles, and merchandising; 5 and 6—family life and environment; 7 and 9—general courses (except 7094 which is a nutrition course).

1000 Human Ecology as a Profession (3) Attributes that identify human ecology as a profession; historical and philosophical development of the field; the variety of its various specializations, and competencies and commitments necessary in the various specializations.

2091 Special Topics in Human Ecology 1-3 Prereq.: consent of instructor. 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.

3000 Seminar (1) For human ecology majors; open to others with consent of instructor. The professional human ecologist in today’s society, relationship of the various areas in human ecology to the overall objectives of the field; current issues in human ecology.

3091 Reading and Research in Human Ecology (3) Open to advanced students of high academic standing by consent of director. May be taken for a max. of 6 hrs. of credit where topics vary. Students are responsible for registering with a faculty member with whom they will select the departmental reading course.

4010 Special Topics in Human Ecology 1-3 Prereq.: consent of director. May be taken for credit for a max. of 6 sem. hrs., when topics vary. Lectures and/or laboratories on selected topics not covered in other human ecology courses.

7090 Research Methods in Human Ecology (3) Philosophy of human ecology research; issues and trends; design and methodology.

7901 Independent Reading and Research in Human Ecology (3) May be taken for a max. of 6 hrs. of credit when topics vary. Directed individual reading and research in a selected area of human ecology.
Methods of Teaching Nursery School and Kindergarten (3 Prereq.: HUEC 3054 or PSYC 2076; 2.50 gpa required for registration. 1 hr. lecture; 1 lab hr. with departmental approval as EDCI 4057. Essentials needed for successful involvement with children from various socioeconomic and cultural groups at the nursery/Kindergarten level; philosophy, teaching methods, and materials providing optimum learning experiences for the child under six. 4063 Systematic Teaching in Early Childhood Education (3) Prereq.: prior application, EDCI 4057, and credit or registration in EDCI/HUCE 4053; 2.50 or better gpa required for registration. Same as EDCI 4058. Supervised experiences in planning and guiding children's activities for young children in various programs for varied cultural groups and socioeconomic levels.

4069 Student Teaching in the Nursery School and Other Early Childhood Settings (5) Prereq.: prior application required; HUEC/EDCI 4057, and credit or registration in HUEC/EDCI 4053; 2.50 or better gpa required for registration. 1 hr. seminar; 1 lab hr. Supervised experiences in planning and guiding children's activities in nursery school and other early childhood programs for varied cultural groups and socioeconomic levels.

4070 Organization and Administration of Early Childhood Programs (3) Prereq.: HUEC/EDCI 4057 or equivalent; 2.50 gpa required for registration. Historical, cultural, social, and political theoretical foundations of departments, duties, policies and legal aspects, equipment and physical plant, parent education, and communication, public relations.

4075 Internship in Household, Family, and Consumer Education (6) Prereq.: HUEC 2065, 2 hr. lecture; 6 hr. lab. For seniors only, seniors studying child welfare policies, and individuals planning application for the internship. Internship opportunities and stipends in community agencies; internship evaluation.

4208 Human Development (3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary. Analysis and discussion of selected research topics. 4209 Apparel and Textile Economics (3) F Prereq.: HUEC 4042 or 4043 and ECON 4010 or equivalent. Effects of economic trends on apparel and textile industries; impact of international trade; changing technologies; implications for the global consumer.

**Merchandising**

**Textiles**

7043 Development of new designs for diversified apparel markets with use of a computer-aided design system; development of a preprofessional portfolio.

7041 History of Dress and Adornment to 1600 (3) F Male and female dress and adornment from earliest times to 1600; emphasis on styles of western civilization.

7042 History of Dress and Adornment Since 1600 (3) S Male and female dress and adornment from 1600 to present; emphasis on styles of western civilization.

7043 Apparel Design—Draping (3) F Prereq.: HUEC 3037 or 3038. 1 hr. lecture; 4 hrs. lab. Principles and application of three-dimensional pattern design.

7044 Apparel Design (3) S Prereq.: HUEC 3037 or 3038. 1 hr. lecture; 4 hrs. lab. Principles and application of three-dimensional pattern design.

7041 History of Textiles (3) S-O Cultural, functional, and technical developments of textiles by selected periods and countries.

7042 Textile Analysis (3) S Prereq.: HUEC 2041, CHEM 1002, and MATH 1020/1021 or equivalent. 2 hrs. lecture; 1 hr. lab. Chemical and physical properties of fibers and how they are related to performance and end-use characteristics; textile product specification and standard test methods for evaluating physical, aesthetic, comfort, performance, and functional aspects of textiles.

7043 Advanced Textiles (3) F Prereq.: HUEC 2041, CHEM 1002 and MATH 1020/1021 or equivalent. 2 hrs. lecture; 2 hrs. lab. Characterization of natural and man-made textile fibers; physical and chemical modifications to meet consumer needs; textile dyeing and finishes; methods of fiber identification and chemical testing.

7045 Apparel Merchandising (3) 8 Prereq.: HUEC 3043, 3044, 3045 and MKT 3431. Application of principles of buying and managing apparel merchandise; emphasis on theory and policy related strategies.

4074 Entrepreneurship in Apparel and Textile Industry (3) S Prereq.: HUEC 3044. Application of principles of entrepreneurship; case studies of successful apparel and textile industry entrepreneurs.

7031 Social-Psychological Influence in Apparel Design (3) S-E Psychological and cultural factors in selection and use of apparel.

7032 Comparative Studies in World Costume (3) F Same as HTH 7032. F 1 hr. lecture; 1 hr. studio. Comparison of costumery and dress in different cultural settings; emphasis on nonwestern costume; western ethnic and folk traditions in dress; impact of cultural exchange and western culture on world dress.

7033 Fashion Theory and Analysis (3) S-O Theoretical approaches to fashion as a social and economic force; analysis of research.

7035 Textile and Apparel Manufacturing (3) Prereq.: HUEC 3034, 4042, or 4043; one 7000-level statistics course. Mass production of apparel and textiles; detailed analysis production methods of apparel and other manufacturing issues facing the industry in a global market.

7041 Current Advances in Textiles, Apparel, and Fashion Merchandising (3) F Introduction to the literature and research in textiles, apparel, and fashion merchandising.

7042 Research in Textiles (3) J hr. lecture; 4 hrs. lab. Research methods applied to fabric analysis and testing; trends and recent developments.

7043 Seminar: Textiles, Apparel, and Fashion Merchandising (1) May be taken for a max. of 2 hrs. of credit if topics vary. Registration and research.

7044 Selected Topics in Apparel, Textiles, and Fashion Merchandising (5) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary. Analysis and discussion of selected research topics.

2065 Management in Family Systems (3) Prereq.: HUEC 1000. Fundamental elements of management: goal-setting, decision making, resource identification and allocation; application of concepts in family systems.

2853 Infantcy and Childhood (3) BIOL 1001 and PSYC 2000 or 2060 or 2076. 2 hrs. lecture; 2 hrs. lab. Observations and practical experience with infants and toddlers; growth and development, and guidance of children from prenatal to age two in family and other developmental contexts.

2854 Early Childhood and the Family (3) Prereq.: PSYC 2000 or 2060 or 2076. 2 hrs. lecture; 2 hrs. lab. Observations and practical experience in the School of Human Ecology's Preschool Laboratory; growth, development, and guidance of children ages 3-5; family and peer relationships.

2860 Family Finance (3) Prereq.: ECON 2030 or AGEC 2075 or equivalent. Development of basis for decision making related to family income, saving, and spending.

2861 The Family in a Consumer, Society (3) Prereq.: ECON 2030 or AGEC 2075 or equivalent. Family consumer opportunities and problems in contemporary society.

2862 Families and the Law (3) Prereq.: ECON 2030 or equivalent. Federal and state law; consumer, children's, and family rights; laws affecting consumers; legal aid; and legal help.

2870 Housing Fundamentals (3) F Prereq.: SOCL 2001 or ANTH 1002 and PSYC 1001 or AHUM 1001 or HUEC 1001. 1 hr. lecture; 4 hrs. lab. Housing: principles of functional, energy-efficient, and cost-effective dwelling design and construction; housing issues; government policies; industry trends, and impact of housing modifications.

2859 Family Dynamics (3) Prereq.: PSYC 2000, 2044, 2040, or 2060. Interpersonal, family, and marital competence; integration of family science research and contemporary knowledge and methods; and professional applications for family science.

2861 The Adolescent and the Family (3) Prereq.: HUEC 3053 or 3054 or equivalent. Growth, development, and guidance of the adolescent in the home, family, and community.

2852 Families: Policy and Law (3) Prereq.: POLI 2070 or equivalent. Marriage and family as legal institutions; history and development of family law principles; overview of the public policy process; emphasis on family policy issues.

2855 Principles and Practices in Kindergarten Education (3) Prereq.: HUEC 3054 or PSYC 2076; 2.50 gpa required for registration; same as EDCI 4053. Classroom organization and instructional management using pre-academic objectives for the kindergarten as an entry point into the elementary school.

2856 Foundations for Concept Development (3) Prereq.: HUEC 3054 or PSYC 2076; 2.50 gpa required for registration. Experiences in the School of Human Ecology Preschool Laboratory. Theories, processes, and models for the young child's concept formation; social and physical environmental factors of the family, the preschool, and society affecting basic cognitive processes and preparedness for reading.
HUMAN NUTRITION AND FOOD

1010 Introduction to Human Nutrition (3) Credit will not be given for both this course and HUEC 1010. Nutrition needs are shared by many species; different species respond to these needs in different ways; weight control; evaluating dietary faddism. 1020 Nutrition in Health and Disease (3) Prereq.: CHEM 1002 or 1201. Credit will not be given for both this course and HUEC 1010. Primarily for students planning to enter the health field. Principles of normal nutrition and dietary modifications related to disease conditions.

2014 Food 1 (3) 5 hrs. lecture; 3 hrs. lab. Principles of food selection, preparation, and management.

2020 Issues in Dietetic Practice (1) Issues in clinical and community nutrition, food service management, and health care delivery systems; emphasis on strategies for future practice.

3012 Human Nutrition During the Life Cycle (3) S Prereq.: CHEM 1201 and 1202; ZOOL 2166; HUEC 1010 or 1201. Primarily for students planning to enter the health field. Principles of normal nutrition and dietary modifications related to disease conditions.

3016 Public Health Nutrition (2) Prereq.: HUEC 1002 and either HUEC 1010 or 1010. Historical development and current methods and cultural influences on nutrition; relationships to various community nutrition programs.

3019 Quantity Food Production (4) Prereq.: HUEC 2014 and MBIO 1001, 1002, or equivalent; and HUEC 2020. 2 hrs. lecture; 4 hrs. lab. Principles of quantity food production illustrated by demonstrations, experiments, observations, and written work; care of quality production equipment; menu planning and other operational controls; sanitation, sanitation, and work process analysis.

3020 Foods Systems Purchasing (3) F Prereq.: ECON 2030 or equivalent; credit or registration in HUEC 3019. Appropriate procedures and standards for procurement, receiving, storage, and allocation of food and non-food products in all quantity food service systems.

4010 Human Nutrition (3) F Prereq.: ZOOL 2160 and 2161; BCH 2083 and 2084. Energy metabolism and the functions, requirements, and food sources of the nutrients.

4011 Nutrition for Life (3) F Prereq.: BCH 2083 and 2084 or equivalent; registration in HUEC 4010. Biochemical and physiological changes that occur in food allergy, dental, gastrointestinal, and malabsorption abnormalities and weight imbalances which require clinical diet modification; nutritional assessment and interpretation; diet counseling and drug/nutrient interactions.

4013 Applied Diet Modification I (1) F Prereq.: credit or registration in HUEC 4012 or equivalent. 3 hrs. lab. Clinical diet modification relevant to biochemical and physiological changes during gastrointestinal, malabsorptive, and weight disorders; nutritional assessment; computer nutritional analysis.

4014 Nutrition and Disease II (3) S Prereq.: HUEC 4012. Biochemical and physiological changes that occur in diabetes, cancer, metabolic and neurological, and inherited disease and disorders of the heart, liver, kidney, that require clinical diet modification; nutritional needs during surgery, trauma, and burns.

4015 Food Theory and Experimentation (3) S Prereq.: HUEC 2014 and CHEM 2060, 2 hrs. lecture; 3 hrs. lab. Chemical and physical bases of food preparation; rationale for procedures and phenomena; evaluation of quality using experimental methods.

4017 Applied Clinical Diet Modification II (1) S Prereq.: HUEC 4013 and concurrent registration in HUEC 4014 or equivalent. 3 hrs. lab. Clinical diet modifications relevant to biochemical and physiological changes during heart and renal disease, diabetes, surgery and trauma, inherited errors of metabolism; quality assurance programs; computer nutrient analysis.

4023 Food Systems Management (4) S Prereq.: HUEC 3020 and 3021 or equivalent. 4 hrs. lab. Function of management applied to food service systems in child nutrition programs, healthcare institutional services, university food service programs, and commercial food service facilities.

7000 Dietetic Preprofessional Practice (1-4) Prereq.: B.S. in dietetics; 15 hrs. graduate credit; departmental approval. May be taken for a max. of 6 hrs. credit. Pass-fail grading. Preprofessional field experience in clinical dietetics, food management, and community nutrition which provides the necessary knowledge and experience required by the American Dietetic Association.

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 topics in literature and research.

7011 Current Advances in Food and Nutrition (3) Recent research and developments.

7015 Noninvasive Deteriorative Mechanisms (3) Prerequisites: appl. or equivalent. Chemical, biochemical, and physical reactions involved in the deterioration of foods; means of control.

7017 Advanced Human Nutrition (3) F Prereq.: HUEC 4019 and BCH 4094. Human requirements, evaluation of nutritional status, and problems related to kind and amount of food consumed.

7018 Proteins in Nutrition (3) S Prereq.: BCH 4094. Nutritional aspects of proteins and amino acid deficiencies, interrelationships, requirements, and metabolic pathways.

7094 Seminar in Nutrition (1) S Prereq.: ANSC 7093, DART 7091, FDSC 7071, HUEC 7010, PLSC 7091 or equivalent, or previous slide (not poster) presentation at a professional meeting. Same as ANSC 7094, DART 7094, FDSC 7072, PLSC 7094. May be taken for a max. of 2 hrs. of credit.

HUMANITIES: HUMANITIES

Humanities 7000 and 7900 are required.

7000 Humanities: Methods of Inquiry (3) Interdisciplinary study in the humanities; modes of inquiry in different disciplines, common themes in the humanities, and methods of integrating the humanities as a whole.

7000 Humanities: Themes and Commonalities (3) Major ideas in the humanities, as reflected in exemplary published studies and student research; the cultural function of the humanities.

7005 Special Topics in the Humanities (3) Prereq.: credit in HUMN 7000 or consent of instructor. May be taken for a max. of 9 hrs. of credit when topics vary. Interdisciplinary studies in the humanities, with attention to major periods, movements, themes, or problems in Western culture.

7990 Independent Study (1-3) Prereq.: credit or concurrent enrollment in HUMN 7000. May be taken for a max. of 12 hrs. of credit. Directed individual readings by the graduate faculty.

INDUSTRIAL EDUCATION • INED

1001 Industrial Engines: Maintenance and Repair (3) 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.

2040 Power Systems (3) See IT 2022.

2030 General Electricity (3) V 6 hrs. lab. Fundamental principles of electricity; direct and alternating currents.

2031 Basic Electronics (3) V 6 hrs. lab. Basic electronic principles and circuitry, as applied to diodes, vacuum tubes, power transformers, inductors, capacitors, resistors, and rectifiers.

2040 Technical Drawing, Reading, Sketching, and Takeoff (3) F 6 hrs. lecture; 4 hrs. lab. Also offered as CONS 2040. Binary system, use of the mechanical and building trades; freehand shop sketching; materials takeoff, and estimating.

2101 Industrial Crafts (3) V 6 hrs. lab. Techniques of art/metalwork, plastics, and leather-craft.

2045 Fundamentals of Air Conditioning and Refrigeration (3) V 1 hr. lecture; 4 hrs. lab. Principles, parts, components, functions, and application of air conditioning and refrigeration systems; problems in equipment performance, operation, and inspections.

2053 Occupational Safety (3) Prerequisite: BSU Identification of accident-producing conditions and practices in plant facilities, materials handling, machine safeguarding, hand tools, and occupational health.

3022 Advanced Metal Manufacturing Processes (3) F Prereq.: IT 2021. 2 hrs. lecture; 3 hrs. lab. Metal machine operations, development of metal cutting skills and technical knowledge using power and power-controlled equipment; forming and heat treatment of metals; metalworking of advanced metals.

3043 Industrial Arts for Elementary Teachers (3) V 1 hr. lecture; 4 hrs. lab. Organization and construction of handicrafts activity units and methods of correlating with elementary grades.

3055 Occupational Analysis Techniques (3) F Essential elements of an occupation or activity identified for purposes of job classification and instruction.

3061 Industrial Supervisory Practice (3) F The supervisor as a key person in the industrial organization; duties, responsibilities, and successful supervisory practices.

3062 Principles of Industrial Training (3) F Functions of a training department, duties and responsibilities of a director, and teaching methods used to develop goals of teamwork and production in business and industry.

3065 Industrial Safety Management (3) F-E Prereq.: INED 2060. Personal characteristics, principles and techniques applied to loss prevention and control; analysis of loss prevention programs; certification, professional ethics; functions of the supervisor.


3067 System and Product Safety (3) Prereq.: INED 2060. Application of system safety analysis and product safety methodologies to contemporary loss prevention programs.

3068 Regulatory Considerations in Occupational Safety (3) Prereq.: INED 3055, or equivalent. Federal and state regulations and their impact on occupational safety.

4069 Principles of Industrial Hygiene (3) S-O Prereq.: INED 2053 and ZOOL 2160; or equivalent. Industrial hygiene and its application to occupational factors which produce adverse employee health.

4079 Teaching: Construction Industries (3) Su-V An activity-oriented, conceptually based teacher education curriculum, incorporating methods and materials of The World of Construction, as developed by the Industrial Arts Curriculum Project.

4085 Teaching: Manufacturing Industries (3) Su-V An activity-oriented, conceptually based teacher education curriculum, incorporating methods and materials of The World of Manufacturing, as developed by the Industrial Arts Curriculum Project.

4228 Automation Systems in Manufacturing (3) F Prereq.: IT 4082. 2 hrs. lecture; 3 hrs. lab. Principles, techniques, and applications of numerical control programming and automation methods in materials handling, assembly, inspection/testing, and materials processing.

4350 Fluid Power Systems (3) F Prereq.: IT 2022/INED 2052. 2 hrs. lecture; 3 hrs. lab. Operating principles and applications of hydraulic and pneumatic components, power systems, and control systems.

4800 Microprocessors (3) F Prereq.: IT 3802. 2 hrs. lecture; 4 hrs. lab. This course is application oriented and cannot be used to fulfill College of Engineering requirements. Microprocessor theory and application, including operation, programming, I/O communication, and interfacing.

4839 Special Topics in Industrial Education (1-3) V May be taken for a max. of 6 sem. hrs. credit. Current trends and techniques in industrial education; individual or group study under the direction of a faculty member.

7041 Foundations of Industrial Education (3) V History and philosophy of industrial education; technological and vocational trade and industrial education.
4461 Human Factors Engineering (3) Prereq.: senior standing. 2 hrs. lecture; 3 hrs. lab. Human performance in human-machine systems, including information processing, display, control, human-system design, and environmental factors on worker performance.

4462 Safety Engineering (3) Occupational safety and health and accident prevention management; design and implementation of policies and procedures for the prevention of hazardous physical and environmental conditions.

4463 Fundamentals of Industrial Hygiene Engineering (3) Prereq.: senior standing or IE 1003. Industrial hygiene design and operation; recognition, evaluation, and control of chemical and physical stresses; physiological and psychological response to stress.

4470 Performance with Information Processing Systems (3) Prereq.: IE 1002 or equivalent. Systems approach to the identification, design, analysis, and development of human-operated information processing systems; applications to practical problems in industry, armed services, athletics, music, and education.

4470 Knowledge-Based Systems in Engineering (3) Prereq.: IE 4425 or equivalent computer experience. 2 hrs. lecture; 3 hrs. lab. Tools and techniques of knowledge-based expert systems as applied to engineering problems, including LISP programming; expert systems theory; systems building tools, state-of-the-art engineer tools systems.

4480 Manufacturing Automation (3) Prereq.: IE 2260 and 2060, 2 hrs. lecture; 3 hrs. lab. Characteristics of microprocessors, microcomputer structure and operation, input/output and interfacing, and control and data acquisition in manufacturing.

4485 Microcomputer Applications in Manufacturing (3) Prereq.: IE 2260 and 2060, 2 hrs. lecture; 3 hrs. lab. Prereq. to design computerized manufacturing systems; time-cost trade-off, PERT, and computer processing.

4490 Engineering Maintenance Management (3) Prereq.: IE 1001 and 4510. Design, operation, and monitoring of a facility to efficiently control maintenance costs; maintenance organization and systems, preventive maintenance, maintenance planning and scheduling, maintenance work measurement; labor performance measures, and spare part 

4510 Operations Research in Engineering (3) Prereq.: IE 2060 and MATH 2057. Credit will not be given for both this course and IE 3710. Project scheduling methods, engineering economy, linear and nonlinear programming in the analysis and optimization of engineering systems.

4562 Advanced Engineering Statistics (3) Prereq.: IE 2302. Linear regression and correlation, curvilinear regression, analysis of variance, and factorial experiments.

4582 Applied Probability Theory (3) Prereq.: MATH 2057. Probability, including random variables and their transforms, discrete Markov processes, and some fundamental limit theorems.

4491 Production Engineering Control (3) Prereq.: IE 1002, 4425, and 4510, or equivalent. 2 hrs. lecture; 3 hrs. lab. Organization and functions of industry; production control and planning; scheduling, forecasting, and inventory relationships; network scheduling principles.

4452 Production Systems Engineering (3) Prereq.: credit or registration in IE 4451. 2 hrs. lecture; 3 hrs. lab. Analysis and design of industrial information systems; projects relating computer systems to industrial systems.

4453 Industrial Quality Control (3) Prereq.: IE 3302. Principles of statistical sampling and control and related economic analysis.

4599 Industrial Engineering Senior Design Project 1-3) Prereq.: credit or registration in IE 4425. May be taken for a max. of 3 sem. hrs. Credit. Application of previous industrial engineering courses to a comprehensive design project.

4607 Industrial Relations (3) Prereq.: senior standing. Examination of industrial relations: labor contract negotiations; labor selection, appraisal, and evaluation; training, compensation, and motivation; labor relations including contract negotiation, strikes, and arbitration; management of grievances.

4785 Special Topics in Industrial Engineering (3) Prereq.: senior standing. May be taken for a max. of 6 hrs. of credit when topics vary. Two sections may be taken concurrently if topics vary. Topics in industrial engineering not sufficiently covered in other undergraduate courses.

4855 Application of Animation to Engineering Problems (3) Prereq.: IE 3843 and proficiency in a programming language. Techniques for computer graphics, animation, and surface visualization; uses in engineering design and process descriptions.

4720 Introduction to Business Administration (3) Prereq.: IE 3201 or equivalent. Concepts in information systems design with emphasis and assignments related to Computer Integrated Manufacturing and product definition; Exchanging technology, other computer-based design support systems.

4743 Advanced Quality Control (3) Prereq.: IE 4453 or equivalent. Advanced procedures of statistical quality control; measurement, statistical analysis, control charts, and economic aspects of quality assurance, human element in quality control, and relationships of quality control to productivity and ability of American products to compete in world markets.

4761 Ergonomics in Work Design (3) Prereq.: IE 4461 or equivalent. 2 hrs. lecture; 3 hrs. lab. Introduction to anthropometrics, function and design, and their application in work design and task assessment.

4763 Industrial Hygiene Engineering (3) Prereq.: IE 4461 or equivalent. Evaluation and control of industrial environments; noise, illumination, radiation, pressure, water and air contaminants, and heat and cold.

4764 Work Physiology (3) Prereq.: IE 4461 or equivalent. Study of worker's physiological responses (cardiovascular, pulmonary, muscular) to work applicable to task design and evaluation, employee selection and placement, and work-rest scheduling.

4765 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.

4766 Human Interaction with Computers (3) Prereq.: IE 4461 or IE 4466 or equivalent. Ergonomics of the use of interactive computer systems; general characteristics and requirements of people-oriented computer systems from the perspective of different disciplines and tasks, e.g., text editing.

4770 Artificial Intelligence Manufacturing Systems (3) Prereq.: IE 4425 or equivalent. Application of artificial intelligence tools and techniques to computer integrated manufacturing applications, including artificial intelligence, expert systems, simulation and optimization, project management, planning, and scheduling.

4780 Automation and Computer-Aided Manufacturing (3) Prereq.: IE 3201 and MATH 1552, or equivalent. Automated flow-line production, numerical control, industrial robots, computer-aided manufacturing, process monitoring and control, group technology, flexible manufacturing systems, and material requirements planning.

4786 Advanced Microcomputer Applications (3) Prereq.: IE 4485 or equivalent. 2 hrs. lecture; 3 hrs. lab. Advanced applications of microprocessor technology in manufacturing; input/output design; interfacing; hardware and software considerations.

4790 Advanced Maintenance Management (3) Prereq.: IE 4450 and 4510, or equivalent. Statistical and theoretical research applied to maintenance management.

5741 Linear Programming Algorithms (3) Prereq.: IE 4450 or equivalent. Optimization of linear objective functions subject to linear constraints; simplex method, convex analysis, polyhedral sets; matrix versions of simplex, revised simplex, bounded variables; duality theory and primal algorithm; sensitivity analysis; parametric analysis; decomposition, and cutting plane algorithms.

5751 Queuing Theory (3) Prereq.: IE 4510 or equivalent. Fundamental details of queuing systems, including performance measures, effectiveness, life and death processes, single and multiple server queues, priorities, balking, batch arrivals, and services; matrix representation of certain
3063 Industrial Maintenance and Practices (3) F $2 hrs. lecture; 2 hrs. lab. Functions of maintenance departments; responsibilities of maintenance supervisors related to efficient industrial production.

3083 Industrial and Agricultural Equipment Sales and Service (3) F $3 hrs. lecture; 3 hrs. lab. Theory and practice of maintenance; management, sales, financing, service, and promotion of industrial and agricultural equipment.

3802 Digital Electronics (3) S Prereq.: INED 3082, 2 hrs. lecture; 3 hrs. lab. This course is application oriented and cannot be used to fulfill College of Engineering requirements. Applications of digital electronics in industrial and agricultural equipment design.

4030 Processing and Handling Equipment (3) V 2 hrs. lecture; 2 hrs. lab. Processing of agricultural products; equipment for handling, drying, and storing of biological products such as grains, forage, fruits, vegetables, hay, and fertilizer.

4082 Numerical Control in Manufacturing (3) S Prereq.: Industrial Eng., major; 3 hrs. lab. Numerically controlled languages and equipment, including teach pendants, input/output programming, BASIC, APT, VAL.

4881 Microcomputer Applications (3) S Prereq.: INED 4800, 3 hrs. lecture; 3 hrs. lab. Design and implementation of microcomputer programs, including designing and debugging programs.

4884 Microcomputer Graphics (3) S Prereq.: INED 4800, 3 hrs. lab. This course is application oriented and cannot be used to fulfill College of Engineering requirements. Applications of microprocessors in the design and controlling of equipment and machines.

5101 Programming in Legal Literature (3) S Prereq.: Italian literature major; 3 hrs. lab. Italian legal literature and its influence on modern international law.

5102 Legal Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern law.

5117 European Union (3) S Prereq.: taken with PHY 3101; 3 hrs. lab. European Union as an international organization and its role in European politics.

5119 Italian Civilization (3) S Prereq.: taken with PHY 3101; 3 hrs. lab. Italian civilization and its influence on modern politics.

5120 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

5121 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

5122 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

5123 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

5124 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

5125 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

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5130 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

5131 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

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5134 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

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5137 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

5138 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

5139 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

5140 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

5141 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

5142 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

5143 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

5144 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

5145 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

5146 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

5147 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

5148 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

5149 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

5150 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.

5151 Italian Literature (3) S Prereq.: 17th cent. Italian literature major; 3 hrs. lab. 17th century Italian literature and its influence on modern literature.
aspects of Italian culture and literature from different periods.

1015 Independent Work (1-3) E5, S5, S6. May be taken for a mini. of 3 sem. hrs. credit. Readings in Italian literature directed by a senior faculty member.

7971, 7972 Seminar (3, 3) Old Italian language and pre-Renaissance literature; Italian literature of the 18th and 19th centuries.

JAPANESE • JPN

1001 Beginning Japanese (5) Students with prior knowledge of Japanese may not take this course for credit. Language laboratory work required. Basic lexicon and structure; emphasis on communicative language use.

1002 Beginning Japanese (5) JPN 1001 or equivalent. Language laboratory work required. Basic lexicon and structure; emphasis on communicative language use.

2001, 2002 (3, 3) Prereq.: JPN 1002 is prerequisite for 2001; 2001 is prerequisite for 2002; approval of the instructor. Structures and lexicon; emphasis on communicative language use and developing facility in reading Japanese.
The Holistic Health Approach to Stress (3) Sources of stress; evaluation of stress-related diseases; techniques for preventing stress reduction; prevention of stress-related diseases.

Adapted Physical Education (3) 2 hrs. lecture; 2 hrs. lab. Prerequisites: credit in KIN 2500 and consent of instructor. Programs designed for physically challenged children; organization and administration of physical programs.

Workshop for Physical Education Teachers (3) May be used for 2 yrs. max. credit toward degree. For teachers interested in improving instruction at the elementary or secondary level.

Knowledge Structure Approach to Skills Analysis (3) Prerequisites: credit in KIN 1500 and consent of instructor. Analysis of the skills and subskills of selected team, dual, and individual movement activities.

Lifespan Motor Education (3) Analysis of development in children; effects of environment on older adult; current theoretical perspectives; current issues; correlates of motor development.

Psychosocial Aspects of Sport (3) Prerequisites: senior or graduate standing. Psychological and sociological perspectives of sport; nature of play and sport; personalities of sport participants; sport as a social phenomenon; and current literature related to psychosocial aspects of sport.

Practicum in Applied Fitness (6) KIN 3533, 3534. 12 hrs. lab. For kinesthetics majors. Pass-fail grading. Exercise testing, exercise prescription, and leadership with adults.


Revealing Teaching in Health and Physical Education (3) Prerequisites: physical education cohort membership or consent of instructor. Critical issues and pedagogical practices of the reflective teacher in health and physical education.

The School Health Program (3) Problems involved in promoting health of school children; prevention of and protection against infectious diseases; physical inspection and examination; health instruction; provision of a wholesome environment.

Community Health Issues (3) Community health aspects and implications of tobacco, alcohol, drug, venereal disease, and other communicable diseases; other community health problems.

Community Safety Education (3) Covers all grade levels in the school health program; community programs; home, traffic, and recreational safety; emphasis on organization and administration of these programs.

Drug and Addictive Drugs in Our Culture (3) KIN 1600 and senior or graduate standing. Harmful and addictive substances which affect physiological, psychological, and social behavior; research and contemporary trends.

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 field work on selected topics.

Advanced Research Methods (3) 1 hr. lab. Prerequisite: KIN 2700. Substantive observations in schools required. Focus on children with overt physical and/or sensory disabilities of a long-lasting nature who need adjusted physical education programs.

Handicapped Children (3) Prerequisites: EDCT 2700. Credit will not be given for both this course and KIN 2540. Not open to kinesthetics majors. Motor tests of handicapped children; curriculum implementation specified in federal and state legislation.

Instructor's Course in First Aid (2) 1 hr. lecture; 2 hrs. lab. For persons qualifying to teach the junior and senior Red Cross courses in aid to the injured.

Organization of the School Health Program (3) KIN 1600. Organization of school health programs involving health services, healthful school living, school environment, school health administration, and evaluation of school health programs.

Methods of Teaching Secondary Health Education (3) KIN 1600. 2 hrs. lecture; 2 hrs. lab. Field experiences in multicultural settings. Structure of school health education and its relationship to official and voluntary health agencies; human relations; modern health resources suitable for teaching health.

Health and the Aging Process (3) Health conservation of human resources; emphasis on understanding attitudes and behaviors associated with health. Modern health resources suitable for teaching health.
2121 Landscape of the Ancient World (3) Development of the earliest landscape traditions; relationship of man to the landscape in the major cultural areas of the ancient world.

2142 The Landscape of Western Civilization (3) LA 2141 recommended. Development of landscape traditions in western Europe and America from the 15th to the 20th centuries.

2143 The Contemporary Landscape (3) LA 2141 and 2142 recommended. Major landscape movements of the 20th century; various aspects of the contemporary practice of landscape architecture.

2147 Perspectives for the Landscape Architect (3) Theory and practice of historic approaches as a component of the landscape architect's responsibility for resource management; analysis, management, and development methodology for cultural resource management.

2152 Landscape Design Theory (4) Prereq.: LA 1182 or equivalent. 3 hrs. lecture; 2 hrs. studio. Application of basic design concepts to landscape design; site information and its relation to client use and needs; the design process as a technique in the integration of site, client, and materials.

2171 Landscape Architectural Implementation: Materials (4) Prereq.: LA 1182 or equivalent. 2 hrs. lecture; 4 hrs. studio. Technical concepts, materials, and products used in landscape architecture; properties of materials and methods of their application.

2183 Landscape Architectural Design Graphs (3) Prereq.: LA 1181 and 1182; or equivalent. 6 hrs. studio. Graphic techniques, tools, and methods used in landscape architectural analysis and design; communication of design ideas.

2185 Automated Graphics for Designers (3) Also offered as ARCH 2155. 2652 Evolution of Park and Recreation Planning (3) History of parks in the U.S. from earliest developments to the present; interrelationships of cultural influences.

2000 Landscape Architectural Computer Applications (3) 1 hr. lecture; 4 hrs. studio. Use of microcomputers in the landscape architect's office; use of small systems and computer software.

3122 Plant Materials in Design (3) Prereq.: LA 2121 or equivalent. 1 hr. lecture; 4 hrs. studio. Identification and study of plant materials as landscape design elements integrated with and related to theoretical aspects of plant design.

3153 Detail Design (4) Prereq.: LA 2121 and 2152; or equivalent. 8 hrs. studio. Comprehensive landscape architectural design; use of earth, structural materials, plants, and other elements.

3154 Site Design (4) Prereq.: LA 3153 or equivalent. 8 hrs. studio. Arrangement of buildings, circulation, and other landscape design elements; design processes and conceptualization.

3173 Landscape Architectural Implementation: Grading (4) Prereq.: LA 2121 and 2122; or equivalent. BAEE 1003 or either: LA 1182, 1183 and 2122; or equivalent. 4 hrs. lecture; 4 hrs. studio. Topographic grading, earth volume estimation, and the preparation of a 500-foot contour plan.

3183 Applied Landscape Architectural Graphs (2) Prereq.: LA 2183 or equivalent. 4 hrs. studio. Design and presentation graphics applied to landscape architectural design projects.

4000 Integrated Studio (4) Prereq.: consent of instructor. 8 hrs. studio. Project-oriented design studio for landscape architects, landscape architects, and other design majors. Integration of various design professions and student levels on a comprehensive design project.

4122 Environmental Issues in Design (3) Institutional factors that influence the relationship between man and his environment; interaction between natural and man-made elements of the environment; environmental and conservation ethics.

4154 Planting Design (4) Prereq.: LA 3122 and 3154 or equivalent. 1 hr. lecture; 6 hrs. studio. Plant selection and arrangement for a series of landscape design projects from detailed to large scale.

4157 Site Master Planning (4) Prereq.: LA 3154 and 3173; or equivalent. 8 hrs. studio. Arrangement of complex multiple land uses, buildings, circulation, and other landscape design elements; design processes and conceptualization.

4158 Landscape Architectural Design (4) Prereq.: LA 4157 and 4175 or equivalent. 8 hrs. studio. Scope of landscape architectural design presented through a variety of large scale projects including multiple land uses; buildings, circulation, and other design elements.
1001 Intermediate Latin (5) Prereq.: LATN 1001 or equivalent. Reading comprehension approach to Latin continued in extensive passages of moderate difficulty; vocabulary building and basic Latin grammatical constructions.

2653 Intermediate Latin (3) Prereq.: LATN 2051 or equivalent. Nonlaboratory comprehension approach includes material of the difficulty of 1st century Latin poetry and prose.

2654 Golden Age Narrative Poetry (3) Readings from the narrative poets, including selections from Virgil's Aeneid and Ovid's Metamorphoses.

2646 Golden Age Prose (3) Readings from Roman prose writers (excluding the historians); the major speeches, letters, and philosophical works of Cicero.

2073 Roman Historians (3) Readings from Roman historians; selections focusing on the offering prose styles and philosophies of history of the authors.

2074 Golden Age Lyric Poetry (3) Readings from the lyric poets; selections from the Carmina of Catullus and the Odes of Horace, with attention to emotional content.

4001 Intensive Latin Language (3) A specialised course intended to provide a reading knowledge of Latin. For graduate students.

6001 Reading in the History of Livy (3) Selections from the History of Livy; literary and historical significance.

4004 Roman Comedy (3) Reading of representative plays of Plautus and Terence, with attention to dramatic techniques and comic situations.

4006 Medieval and Renaissance Latin (3) Readings from the time of the medieval Latin writers written to Milton.

4007 Latin Prose Composition (3) Practice in writing Latin prose; emphasis on grammar and syntax of classical Latin, using Ciceroan prose style as the model.

4010 Survey of Latin Literature (3) Readings in major Roman authors from the beginning to Ammianus Marcellinus; supplementary study readings in English for whom a familiarity with another foreign language is strongly recommended. Successful completion of this course will be regarded as sufficient preparation for LATN 4000. Does not count toward an undergraduate major or minor in Latin and toward the requirements for undergraduates, although hours may count toward baccalaureate. Credit will not be given for both this course and corresponding graduate seminars, and instruction in Latin; graduated readings from representative authors.

4002 Roman Satire (3) Readings from Petronius' Satyricon, Martial, and Juvenal for their humor, with attention to evidence of the lives and language of ordinary Roman people.

4030 Readings in the History of Livy (3) Selections from the History of Livy; literary and historical significance.

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7096 Field Experience in Health Sciences Information Centers (3 Prereq.: completion of core courses and LIS 7404; or equivalent. Preparation for course begins semester prior to registration. 120 hrs. per semester at field site. Experience in administration and management of health sciences libraries.

7097, 7098 Special Topics in Library and Information Science (1-3) Only 5 sem. hrs. in 7907 and 7908 applicable to M.L.I.S. degree. Areas of current interest.

7909 Directed Independent Study (1-3) May be taken for a max. of 6 hrs. credit.

8000 Thesis Research (1-2 per semester) "S"/"U" grading.

LINGUISTICS - LING

4008 History of the German Language (3 See GERM 4001)

4011 Topics in Advanced Logic (3 Prereq.: PHIL 4010, See PHIL 4011)

4060 Language and Culture (3 See ANTH 4060)

4064 Pidgin and Creole Languages (3 See ANTH 4054 and FREN 4054)

4158 Phonetics (4 See COMD 4150)

4153 Acoustics of Speech and Hearing (3 See COMD 4153)

4606 Russian Language: Phonetics and Phonemics (3 See RUS 4002)

4507 German Phonetics (3 See GERM 4002).

4759 Independent Research in Speech Science or Linguistics (1-3) See COMD 4750.

4914 Philosophy of Language (3 See PHIL 4914).

7005 Historical Linguistics (3 See ANTH 7005).

7006 Phonology: Theory & Methods (3 See ANTH 7006).

7069 Conversation and Discourse (3 See ANTH 7060).

7759 Special Topics in Linguistics (3 See COMD 7750).

7752 Seminar in Linguistics (3 See COMD 7752).

7754 Psycholinguistics: Linguistic Perspectives (3 See COMD 7754 and PSYC 775).

7755 English for Speakers of Other Languages: Methods and Materials (3 See COMD 7755).

7756 Independent Research: Phonetics and Linguistics (1-3) See COMD 7756.

7900 Selected Topics in Anthropology (3 See ANTH 7900).

7910 Seminar (3 See PHIL 7910).

7962 Field Methods in Linguistics (3 See ANTH 7962).

7999 Research in Anthropology (1-4) (See ANTH 7999).

8000 Thesis Research (1-2 per sem.) "S"/"U" grading.

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 5 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; princi- ples, and techniques derived from a synthesis of legal and geographical sciences; legal effects of various procedures of boundary locations for petroleum properties; petroleum land practices concerning utilization, a real association, and environmental impacts of drilling activity; use of topo- graphic and historical maps, map compilations, historical cartography, air photos, archival records, and field tech- niques; ween tare to reptile L30 ec OIl Sout.

3111 Entrepreneurship (3) S Prereq.: senior standing. Principles of entrepreneurship; feasibility studies; financial and locational analysis; new entity creation; management, venture capitalism; legal considerations.

3200 Principles of Management (3) Prereq.: admission to the College of Business Administration or approval of the dean. Management functions, including planning, organiz- ing, staffing/human resource management, leading/inter- personnel influence, and controlling in both domestic and international spheres.

3203 Independent Study: Advanced Management Topics (1-6) Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. Supreme independent research under direction of a faculty member.

3211 Business and Society (3) Prereq.: senior standing. Social roles of organizations whose primary function is the accumulation of profit; emphasis on current issues; histori- cal development of business-society relationships.

3280 Management Internship (3) Prereq.: junior or senior standing. May be taken for a max. of 12 hrs. of credit. Students, supervised by a management faculty mem- ber and an approved business executive, will follow a predefined schedule of activities while working for a business firm. Hands-on experience in the fields of man- age ment, human resource management, organizational behavior, entrepreneurship, and administrative practices.

3320 Human Resource Management (3 Prereq.: MGT 3200). Human resource functions, including planning, recruiting, selection, development, maintenance, and reward of employees; relationships with environment and employee associations.

3510 Introduction to Labor Relations (3) MGT 3500. An overview of labor-management and union-management sys- tems; variations in labor regulations in federal, state, and local government; role of third-party neutrals in public sector labor relations.

3513 Labor-Management Conflict and Cooperation (3) F Prereq.: MGT 3500. In-depth examination of issues important to labor management relations; topics include, but are not limited to, collective bargaining, collective contract dispute resolution, union-management cooperation, and/or reorganization in labor-management relations.

3810 Special Topics in Management Systems (3 Prereq.: FIN 3770, MGT 3200, and MKT 3401. May be taken for a max. during the final semester of course work. Elements of strategy formulation and implementation at the business and corporate levels; cases used for discussing and preparing reports that require strategic analysis and top-management decision making.

4000 Analysis and Design of Management Information Systems (3) If See QBA 4125.

4113 Small Business Management (3) S Prereq.: senior standing. A multidisciplinary approach to small business: business start-ups, accounting, marketing, human re- source management, promotion, layout, retail management, location analy- sis, and international small business.

4114 Franchising Management (3) S Prereq.: senior standing. Understanding the franchising process; becoming a franchisor or franchisee; franchisor start-up, venture capital, finance, legal compliance, disclosure documents, franchisor agreements, control systems, franchisee relationships, antitrust laws, and international franchising.

4322 Employee Selection and Placement (3 Prereq.: QBA 2000; or equivalent. Staffing requirements, recruit- ment strategies, development and validation of selection procedures, classification and placement of employees; problems associated with person-job matching; socializa- tion of new employees.

4323 Compensation Administration (3) F Prereq.: MGT 3320. Quantitative and qualitative methods of job evalua- tion; wage level, wage structure, incentive plans; issues of employee compensation.

4410 International Management (3 Prereq.: MGT 3200 or equivalent. Management concepts and philosophical bases for international management operations; environ- mental dynamics, multinational business organizations, cultural constraints, communication strategies, and conceptual systems of international operations.

4523 Government Regulation of Human Resource Man- agement (3 Prereq.: MGT 3200 and 3320. The influence of labor-management legislation on human resource management; hiring, reten- tion, and promotion policies of employers.

4428 Human Behavior in Organizations (3 Prereq.: MGT 3200). Behavioral influence on organizational dynamics; organization behavior as an organizational variable; impact of human behavior on organizational dynamics and success.
4701 Management of Innovation (3) V The competitive environment; innovative process and invention evaluation; management of creative ideas; management of credit; patenting innovation; social/cultural, organizational, and governmental influence on innovation.

4702 Managerial Technology (3) V Models of technological transfer; mechanisms and barriers to technological transfer; technological transfer and industrial innovation; domestic and international aspects of technology transfer.

7000 Operations Management (3) See QBA 7208.

7001 Management of Technology (3) See IE 7645.

7111 Entrepreneurship Management (3) F Investigation, analysis, and development of entrepreneurial feasibility studies and business plans.

7201 Administrative Theory and Behavior (3) F Management fundamentals and organizational behavior; structure, processes, behavior in, and development of organizations.

7202 Business and Society (3) F Role of business in a broad societal context; changes occurring in business and resulting modifications of the relationship of business to society; roles of business viewed by business and society.

7203 Development of Management Thought (3) F-O Contemporary issues in strategic management, principles, and concepts; contributions of the leaders of the main channels of thought, including scientific management, the human relations approach, behavioral sciences, quantitative methods, and systems.

7212 Seminar in Contemporary Management Topics (3) V Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit.

7301 Seminar in Human Resources (3) S-Role of human resource managers; their relationships with employees, the external environment, and top management.

7402 Reward Systems in Organizations (3) V Theories of motivation, reward, performance, and behavior; their application to major issues regarding human resource allocation, development and utilization.

7401 International Business Management (3) S Theories and management of international operations; development of international, operational, strategic, and decision making perspectives.

7402 Comparative and Cross-Cultural Management (3) V Organizing, operating, and managing in other cultures and environments; multi-cultural environments and cross-cultural issues concerning multinational corporations; technological, economic, political, and societal issues; their influence on multinational management.

7500 Labor-Management Relations (3) F Primarily for master's level study of collective bargaining and strategies, public policy, and current issues in the public and private sector.

7601 Organizational Behavior (3) F-R-E Behavior of people within organizations; the environment within which organizations function; components of the behavioral unit; processes, interactions, and outcomes of organizational behavior.

7700 Organization Theory (3) S-O Macro aspects of organizations; processes by which organizations are formed, structures used in their elaboration; internal processes; environmental considerations; organizational viability and renewal.

7703 Organization Development (3) V Strategies and techniques for improving the effectiveness of organizations; improved interpersonal and group-member relationships.

7800 Current Issues in Strategic Management (3) S Contemporary issues in strategic management theory and practice; emphasis on field projects that provide top-management problem-solving experience.

7811 Research Issues in Strategic Management (3) F-E Prereq.: MGT 7800 or equivalent. Strategic planning; issues including environmental scanning, goal formulation, strategic implementation, control, and evaluation in success and failure.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

9201 Research Seminar II: Theory and Design of Organizational Behavior (3) Prereq.: MGT 7800 or equivalent. Research methods in organizational research; philosophy of social science; theory building; research design for field and lab; quasi-experimentation; survey-based research; qualitative research methods.

9202 Advanced Research Seminar (1-9) May be repeated for credit. Pass-fail grading.

9204 Proseminar in Management (1) Required of all in-resident Ph.D. students. Pass-fail grading. May be taken for a max. of 6 hrs. of credit.

9222 Research Seminar II: Advanced Methods in Organizational Behavior (3) S-E Prereq.: MGT 3201 and QBA 7024 or equivalent. Routine, reliability, and validity; structural equation methods; confirmatory factor analysis; mediators and moderators; archival research methods; meta analysis.

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

2800 Marketing and Society (3) Not open to students in the College of Business Administration. Marketing topics from a contemporary social issues perspective; emphasis on methods for dealing with societal issues and their impact on marketing activity.

3401 Principles of Marketing (3) Prereq.: ACCT 2000 or 2001, and either ECON 2030 or ECON 2010 and 2020. Lecture-discussion, case analysis, marketing-simulation game; the field of marketing; marketing environment, functions, and institutional structure at a macro level; marketing process and policies at a micro level; marketing problems of cost and productivity; view points of society, consumer, and marketing manager.

3411 Consumer Analysis and Behavior (3) Prereq.: MGT 3401. Nature and contributions of personal selling and advertising to the firm's problems of demand simulation; concepts related to integration and organization of marketing efforts to facilitate communication programs for success; marketing research, marketing control, and sales forecasting methods as strategic aids to marketing management; model-building approach used to demonstrate tool applications of marketing research.

3412 Buyer-Seller Communication (3) Prereq.: MGT 3401. Communication theory and sales principles needed for successful sales career; buyer behavior and sales tactics; sales strategies; communication in buyer-seller relationships.

3431 Retailing Management (3) Prereq.: MGT 3401. Store organization, operation, and management; retail management of inventory; problems connected with retail buying and selling.

3433 Distribution Channels, Structure, and Management (3) Prereq.: MGT 3401. Distribution channel functions; the role of the retailer and wholesaler in the marketing equation; marketing executive's role in marketing executive's role in marketing channel as an economic and behavioral system; relationship between channel members; marketing manager's viewpoints; vertical marketing systems; franchise store organization; communication channel system; integration of information systems; management by different channel members; evaluation of channel performance.

3441 Business Marketing (3) Prereq.: MGT 3401. Strategies developed by manufacturers to compete for markets; differences between industrial and final consumer markets; function of industrial purchasing with regard to selection of sources of supply and development of purchasing policies; strategic overview of marketing; how companies buy and sell from each other; not confined to industrial companies.

4414 Marketing Research Field Project (3) Prereq.: MGT 3413. Advanced marketing research problems and theory; client-supplier relations; research proposals and market analysis; market research techniques; market position assessment, image studies, observational studies, product design, advertising effectiveness, and pricing.

4423 Sales Management (3) Prereq.: MGT 3401. Principles of sales planning and control; organizing sales departments, developing territories, motivating sales persons, and controlling sales operations.

4443 International Marketing (3) Prereq.: MGT 3401. Global marketing environment and analytical processes; global marketing as all-encompassing (import-export, joint venture, franchise, licensing, joint marketing, contract) marketing systems in various countries; strategies for international and multinational operations.

4445 Strategic Marketing (3) Prereq.: MGT 3401. Prerequisites: consent of department chair. Primarily for seniors in marketing. On-the-job experience in approved marketing positions.

4451 Marketing Management (3) Prereq.: senior standing. Overview of the analytical customer and firm-oriented strategic marketing activities that develop in the development of strategies for solving marketing problems; policy areas of product, price, channels, and promotion integrated in the development of the firm's total marketing effort.

4477 Independent Study: Advanced Marketing Problems (1-6) For undergraduate students in the College of Business Administration with a GPA of 3.00 or above. Individualized study in areas of strategic planning and its interfaces with retailing problems; market area analysis, locational strategies and site selection; merchandising policies and inventory operations; store management, product distribution, and department store management.

4490 Services Marketing (3) Prereq.: MGT 3401. Developing, pricing, distributing, and promoting the service; customer evaluation of quality; the product and service components; high service automation and/or employee selection and training; place of marketing in service organization structure; strategic product, service, promotion, and distribution strategies.

4720 Applied Business Research (3) Prereq.: QBA 5014. Application of research to business problems from a managerial perspective, problem definition, sources of business information, dealing with research suppliers, evaluating research methodologies, interpreting research reports.

4743 Advanced Seminar in International Marketing (3) Prereq.: MGT 3401 and 7024 or equivalent. Marketing management decision processes and marketing systems in the global environment; application to multinational businesses; country selection, marketing techniques of foreign market entry (import-export, joint ventures; foreign subsidiaries, licensing); and management strategy development; product, pricing, promotion, and distribution decisions.

4750 Topics in Advanced Marketing Management (3) Prereq.: MGT 7711. May be taken for a max. of 6 hrs. of credit.

4777 Seminar in Advanced Marketing Problems (3) May be taken for a max. of 6 hrs. of credit.

4784 Applications of Marketing Theory (3) Prereq.: MGT 7476 and 7713. Marketing theory development and testing; theory operationalization and refinement.

4788 Marketing Models (3) Prereq.: MGT 7711 and 7476. Advanced marketing models in different areas, and methodology in marketing through the study of modeling phenomena, functional forms, and analytical techniques of path analysis, simultaneous equation systems, and structural equation modeling.

7111 Marketing Administration (3) Marketing decision making and management systems; marketing research and environment of marketing; marketing planning, programming, and forecasting; marketing decision variables; marketing control and evaluation.

7113 Advanced Marketing Research (3) Prereq.: MGT 4451 or 7711, and QBA 7024 or equivalent. Research methods used to investigate marketing problems and design of management strategy through causal modeling and forecasting, marketing planning, product, price, promotion, and distribution policies; information systems; marketing analysis and planning; marketing strategy and control, and behavior tools as strategic aids to marketing management; model-building approach used to demonstrate tool applications in marketing research.

7140 Analysis of Consumer Behavior (3) Prereq.: MGT 4451 or 7711. Psychological, sociological, social-psychological, and anthropological foundations of consumer behavior; consumer research methodology, consumer behavior; consumer behavior, and marketing strategy development.

7171 Advertising Management (3) Prereq.: MGT 3401 or equivalent. Systematic approach to advertising decision making and inherent responsibilities and opportunities; development of consumer identification needs of information, development of a decision framework, delineation of economic and social societal goals.

7176 Advanced Marketing Research Techniques (3) Prereq.: MGT 7711 and 7713. Advanced designs and tech-
7018 Seminar in Communication Literature (3) Y Basic issues and problems in mass communication as highlighted in relevant journals and books; journal articles and books of essays.  
7015 Mass Communication and Society (3) Y Roles of the mass media; responsibilities and rights of the communican; interaction of mass media and society.  
7016 International Mass Communication (3) F How public opinion gets a foothold in press agencies, associations, newspapers, magazines, radio, and television. 
70011 Thesis Research (1-12 per sem.) “S”/“U” grading.  
70015 Dissertation Research (1-12 per sem.) “S”/“U” grading.  

MASS COMMUNICATION - MC  
Required of all mass communication majors: MC 2010, 2015, 3018, 3080.  

GENERAL COURSES  
2000 Introduction to the Mass Media (3) F,S,Su The mass communication process within American society; development, structure, and function, and cultural impact of the mass media.  
2010 Media Writing (3) Prereq.: MKT 7071 and either MKT 4451 or 7117. Open only to doctoral students. Theoretical, conceptual, and methodological aspects of mass media writing.  
2000 Thesis Research (1-12 per sem.) “S”/“U” grading.  
2000 Dissertation Research (1-12 per sem.) “S”/“U” grading.  

ELECTRONIC MEDIA  
2700 Production and Performance (3) 2 hrs. lecture; 2 hrs. production laboratory. Production techniques in video and audio programming of electronic media.  
2705 Radio Production (3) F,Su Prereq.: “C” or better in MC 2010, 1 hr. lecture; 4 hrs. lab. Also offered as SPCM 2720. Production of radio programs; production operation of studio and location broadcast equipment; audio-tape editing techniques; writing; equipment operation; planning; recording; voice-over.  
3450 Electronic Media and Society (3) Also offered as SPCM 3650. Organizational and economic foundations of electronic mass media; history, regulation, social significance, and responsibility.  
3700 Electronic Media, Law, Regulation, and Public Policy (3) V Prereq.: MC 3650. Also offered as SPCM 3700. Development of telecommunications media law and regulation through case studies relating to the Federal Communications Act; rules and policy decisions of the Federal Communications Commission and other regulatory bodies; emphasis on current legal issues affecting the telecommunication media; legal documents and literature.  
2710 Television Producing and Directing (3) F,S,Su Prereq.: “C” or better in MC 2010, 2710, and 2710, 2 hrs. lecture; 3 hrs. lab. Also offered as SPCM 3720. Producing and directing programs for television; basic set design; lighting; operation of audio and video equipment; studio and control room equipment.  
4710 Electronic Media Programming (3) Strategies in developing program schedules for all channels of electronic media; techniques of program development for target audiences.  
4710 Electronic Media Management (3) Y Also offered as SPCM 4710. Problems of managing broadcast stations and cable systems; general management, sales, programming, and promotion.  
7020 Electronic Media Systems (3) Integration of traditional electronic media with new media systems; political, economic, and regulatory matters; emphasis on cable television.  

JOURNALISM  
2152 News Reporting (3) F,S,Su Prereq.: “C” or better in MC 2010, 2 hrs. lecture; 2 hrs. lab. Specialized kinds of news stories; assignments include reporting campus news for The Daily Reveille.  
2710 Broadcast Newswriting and Reporting (3) F,S,Su Prereq.: “C” or better in MC 2010, 2 hrs. lecture; 2 hrs. lab. Writing news stories using specialized broadcast news format; techniques of reporting for radio and television; reporting news for KXPR radio.  
3001 Business Journalism (3) V Prereq.: writing for and editing house magazines, trade journals, and miscellaneous industrial publications; business news reporting for the daily newspaper.  
3002 Feature Writing (3) F,S,Su Prereq.: MC 3010 and 3200. Developing and writing feature stories, vignettes, and other human-interest material.  
3055 Photojournalism (3) F Prereq.: “C” or better in MC 2010; 2 hrs. lecture; 2 hrs. lab. Photographic principles for communication media.  
3150 News Editing (3) F,S,Su Prereq.: “C” or better in MC 2010 and 2125, 2 hrs. lecture; 4 hrs. lab. Selecting, evaluating, and processing news copy; copy editing, headline writing, and newspaper makeup.  
3151 Advanced Reporting (3) F,S,Su Prereq.: “C” or better in MC 2010, 2125, and 3150, 2 hrs. lecture; 3 hrs. lab; individually arranged hours conducted at The Advocate, Reporting news for The Advocate.  
3200 Newsathering I (3) F,S,Su Prereq.: MC 2010, 2015; 2 hrs. lecture; 2 hrs. lab. Also required in the political communications sequence. Research and reporting techniques for broadcast format; gathering information through databases, interviews, and governmental records; introduction to related databases.  
3202 Newsathering II (3) Prereq.: MC 3200, 2 hrs. lecture; 2 hrs. lab. Specific applications of newsathering techniques; covering courts, law enforcement agencies, government offices; roll calls and other statistical methods; relational databases.  
3210 Editing for Print and Electronic Media (3) F,S,Su Prereq.: 2 hrs. lecture; 2 hrs. lab. Also required in the political communications sequence. Editing and evaluating electronic media; emphasis on style and content.
7005 Radio News (3) F,S Prereq: "C" or better in MC 2010 and 2710. 1 hr. lecture; 4 hrs. lab. Advanced writing and reporting for radio; news gathering techniques; reporting for KLSU radio.

3740 Television News (3) F,S Prereq: "C" or better in MC 2710. 1 hr. lecture; 4 hrs. lab. Advanced writing and reporting for television; news gathering techniques; use of video cameras/recorders and video editing equipment; in-studio news presentations.

3750 Reporting Public Affairs for Broadcast (3) F,S Prereq: "C" or better in MC 3705 and 3740. 2 hrs. lecture; 2 hrs. lab. Advanced reporting for radio and television; news coverage of government, courts, education; assignments for KLSU radio.

4010 Magazine Editing and Production (3) Y Prereq: MC 2015 and 2502, Magazine project required. Techniques of magazine editing and production; analysis of magazine industry and specific magazines and their audiences; editorial objectives and formulas, issue planning, article selection, layout, illustration, typography, printing, and circulation.

4011 Scholastic Journalism (3) Basic mass communication techniques and instructional methods for teachers of scholastic journalism; duties of counselors for newspapers and yearbooks.

4081 Opinion Journalism (3) Y Prereq: MC 2010 and 3200. Analysis of various forms of journalistic writing which involve subjective expression: interpretive reporting, news analysis, essays, editorials and columns, critical reviews, and interviews.

4141 Public Affairs Reporting (3) F,S Prereq: MC 3150. 2 hrs. lecture; 2 hrs. lab. News coverage of public affairs, such as news of the courts and government; assignments with local newspapers and broadcast media.

4250 Public Affairs Reporting (3) Prereq.: MC 3202, 3210. 2 hrs. lecture; 3 hrs. lab. Using public records to document fraud, abuse, or interesting and significant social change.

4260 Long-Format Video Production (3) Prereq.: MC 3210. 2 hrs. lecture; 2 hrs. lab. Strategies in producing video programs designed to inform mass electronic media audiences.

POLITICAL COMMUNICATION

3590 Principles of Media and Politics (3) Overview of American communication media; emphasis on historical development, structure, contemporary function, and operating methods applied to the political communication process.

4510 The American Media and Public Opinion (3) Prereq.: MC 3500. American mass media involvement in the public opinion process; coverage of polls; impact of media issues in the political process.

4515 Case Studies in Media and Political Campaigns (3) Prereq.: MC 3500. Examination of political campaigns involving American media; the media client and message; developing media messages for political campaigns.

PUBLIC RELATIONS

3000 Principles of Public Relations (3) F,S,Su Mass communication techniques applied to theories and principles of the public relations function.


4001 Public Relations Writing (3) Y Prereq: MC 2010 and keyboarding proficiency of at least 35 words per minute. 3 hrs. lecture; 2 hrs. lab. Developing and writing news releases, speeches, audio-visual scripts, feature stories, and other public relations communications.


4005 Public Relations Campaigns (3) Y Prereq.: MC 3010, 3038, and 4001. 1 hr. lecture; 4 hrs. lab. Developing and implementing public relations communication campaigns; hands-on experience in designing and producing print and audio-visual materials for campaigns; emphasis on use of planning and evaluation techniques.

7006 Public Relations Practices (3) Formal and informal models used to formulate and design tasks in the management activities of public relations and its role in social systems.

7007 Public Relations Administration (3) Principles of public relations management and application of project research techniques; strategies of campaign setting: planning, organizing, staffing, leading, and controlling.

7008 Public Relations Programming and Production (3) Prereq.: MC 2010 and 3152 or equivalent media writing proficiency. 2 hrs. lecture; 2 hrs. lab. Writing and production of public relations messages for print and broadcast and program proposals; practice in writing, graphic design and layout of messages.

MATH

SEQUENCE OF MATHEMATICS COURSES BELOW 2900

No student may receive more than 9 semester hours of credit in Mathematics courses numbered below 1550, with the exception of students who are pursuing the elementary education degree (Holmes Program) and following the 12-hour sequence specified in that curriculum. No student who has already received credit for a mathematics course numbered 1550 or above may be registered in a mathematics course numbered below 1550, unless given special permission by the Department of Mathematics.
161 Mathematics for Prospective Elementary School Teachers II (3) V Prereq: MATH 100B. Prereq: for correspondence only. Continuation of MATH 1009, measurement, informal geometry, systems of equations, introduction to probability and statistics.

165 Basic Mathematics and Applications (5) V Prereq: MATH 0901 or placement by department. This course does not substitute for MATH 1015, 1021, or 1023. Offered by correspondence only. Basic mathematical skills of algebraic, geometric, and statistical acquisition, review of quadratic equations, logarithms and application to exponential growth and decay. Single trigonometry and its application to geometry and measurement.

192 College Algebra (5-Hour Format) (3) F,S,Su Prereq.: placement by department. Credit will not be given for both this course and MATH 1015, 1021, or 1023. Quadratic equations, systems of linear equations, inequalities, functions, graphs, exponential and logarithmic functions, conic sections, vectors, and probability, including conditional probability, discrete and continuous random variables, variance, and normal distributions; matrices and echelon method for solving systems of equations; functions of several variables and partial derivatives.

1441 Calculus with Application to Technology (3) F,S Prereq: MATH 1020/1021 and 1023; or consent of department. An honors course, offered only one of the following: MATH 1431, 1441, 1550. Differentiation and integration of algebraic and trigonometric functions; application to technology.

1550 Analytic Geometry and Calculus I (5) F,S,Su Prereq: MATH 1022 or consent of department. An honors course, MATH 1551, is also available. Credit will be given for only one of the following: MATH 1431, 1551, 1550. Analytic geometry, limits, derivatives, integrals.

1510 HONORS: Analytic Geometry and Calculus I (5) F Same at MATH 1550, with special honors emphasis for qualified students.

1552 Analytic Geometry and Calculus II (5) F,S,Su Prereq: MATH 1550. An honors course, MATH 1553, is also available. Conics, are length, transcendental functions, coordinate systems, infinite series.

1553 HONORS: Analytic Geometry and Calculus II (5) S Same at MATH 1552 with special honors emphasis for qualified students.

1635 Further Calculus for Quantitative Analysis (5) Prereq: MATH 1435 or 1550. Credit will not be given for both this course and either MATH 1552 or 2057. Selected topics from classical and modern analysis. Applications to Riemann sums, Newton's method, elementary differential equations, infinite sequences and series, functions of several variables, integration by parts, numerical methods, linear algebra and matrix theory, least squares, regression, Lagrange multipliers, direct and indirect methods.

2409 Fundamentals of Mathematics (3) Prereq: MATH 1550. Introduction to techniques of mathematical proofs; sets, logic, relations and functions, induction, cardinality, and properties of the real numbers.

2587 Multidimensional Calculus (3) F,S,Su Prereq: MATH 1552. An honors course, MATH 2588, is also available. Three-dimensional analytic geometry, partial derivatives, multiple integrals.

2858 HONORS: Multidimensional Calculus (5) F Same as MATH 2587, with special honors emphasis for qualified students.

2865 Elementary Differential Equations (3) F,S Prereq: MATH 1552. Credit will be given for only one of the following: MATH 2055, 2070, 2090. Ordinary differential equations; elementary treatment, solution of linear differential equations.

2709 Mathematical Methods in Engineering (4) F,S Prereq: MATH 1552. Credit will be given for only one of the following: MATH 2055, 2070, 2090. Ordinary differential equations; Laplace transforms, numerical solutions, Fourier series, physical applications stressed.

2865 Linear Algebra (3) F,S,Su Prereq: MATH 1552, 1553 or 2057, or equivalent. An honors course, MATH 2868, is also available. The study for both this course and MATH 2090. Systems of linear equations, vector spaces, linear transformations, matrices, determinants.

2866 HONORS: Linear Algebra (3) V Same as MATH 2865 with special honors emphasis for qualified students.

2900 Elementary Differential Equations and Linear Algebra (4) F,S,Su Prereq: MATH 1551. Credit will be given for only one of the following: MATH 2055, 2070, 2090. Credit will not be given for both this course and MATH 2085. First order differential equations, linear differential equations with constant coefficients, and systems of differential equations; vector spaces, linear transformations, matrices, determinants, linear independence, bases, systems of equations, eigenvalues, and eigenvectors.

3903 Methods of Problem Solving (1) F Prereq: MATH 1551 and either MATH 2055, 2070, or 2090. May be taken for a max. of 3 hrs. of credit when topics vary. Pass-fail grading. Instruction and practice in solving a wide variety of mathematical and logical problems, and participation in the Putnam competition.

3998 Undergraduate Major Seminar (1) V May be taken for a max. of 4 hrs. of credit. Pass-fail grading. Topics of current interest presented.

4065 Geometry (3) F Prereq: MATH 2040. The foundations of geometry, including work in Euclidean and non-Euclidean geometries.

4093 Applied Algebra (3) S Prereq: MATH 2058 or equivalent. Credit will not be given for both this course and MATH 2400. Finite algebraic structures relevant to computer: groups, graphs, and computers in design, graphics, error-correcting codes, number theory, error-correcting codes, finite fields, Galois theory, cryptography.

4024 Mathematical Models (3) S Prereq: MATH 1552 and credit or registration in MATH 2085 or equivalent. Construction, development, and study of mathematical models of real situations. Linear and non-linear programming, Markov chain models, models for linear optimization, selected case studies.

4026 Mathematical Theory and Applications (3) F Prereq: MATH 2057 and credit or registration in MATH 2085 or equivalent. Basic methods and techniques for solving mathematical models and the corresponding systems of equations and convex sets; and classical search and optimization of functions of one and several variables; linear, nonlinear, and integer programming.

4027 Differential Equations (3) S Prereq: MATH 2057 and 2085. Ordinary differential equations, with attention to theory.

4028 Advanced Calculus I (3) F Prereq: MATH 2057 and 2085 or equivalent. Differential and integral calculus of real and vector-valued functions of several real variables.

4029 Advanced Calculus II (3) S Prereq: MATH 4031 or equivalent. Vector integral calculus, Stokes's theorem, line, surface, and coordinate mapping.

4038 Mathematical Methods in Engineering (3) F,S,Su Prereq: MATH 2055 or 2070 or 2090. Also offered as ME 4563. Vector analysis; solution of partial differential equations. The method of separation of variables and introduction to orthogonal functions including Bessel functions.

4039 Introduction to Topology (3) V Prereq: MATH 4011 or equivalent. The classification of two-dimensional manifolds, covering spaces, the Brouwer theorem, and other selected topics.

4054 Introduction to Probability (3) F Prereq: MATH 2057. Suggested for preparation for actuarial exams. Experimental design, sampling methods, nonparametric methods, hypothesis testing, and regression.

4055 Numerical Analysis I (3) F Prereq: MATH 2057; basic programming ability in FORTRAN, Pascal, or C. Taylor's method, Lagrange interpolation, least-squares approximation, orthogonal polynomials, numerical differentiation and integration, Gaussian elimination.

4066 Numerical Analysis II (3) S Prereq: MATH 4055 and one of the following: MATH 2065, 2070, 2090, 4027. Numerical solutions of initial value problems and boundary value problems for ordinary and partial differential equations.

4153 Finite Dimensional Vector Spaces (3) S Prereq: MATH 2070 or equivalent. Linear real number systems, sets, relations, product spaces, order, and cardinality.

4171 Theory of Graphs (3) S Prereq: MATH 2085 or equivalent. Fundamental concepts of undirected and directed graphs, trees, connectivity, planarity, colorability, network flows, matching theory, and applications.

4172 Combinatorics (3) F Prereq: MATH 2085 or equivalent. Topics selected from permutations and combinations, generating functions, principle of inclusion and exclusion, configurations and designs, matching theory, existence problems, applications.

4181 Elementary Number Theory (3) F Prereq: MATH 2057 or 2085. Divisibility, Euclidean algorithm, prime numbers, properties of the integers, finite 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 4043. Elements of sets, relations, mappings, integers; groups, subgroups, normal subgroups, quotient groups, homomorphisms, automorphisms, and permutation groups; equivalence relations and partitions.

4201 Abstract Algebra II (3) S Prereq: MATH 4200 or equivalent. Ideals in rings, factorization in polynomial rings, finite factorization rings, Euclidean domains, field extensions, splitting fields, finite fields, Galois theory.
4325 Fourier Transforms (3) V Prereq: MATH 1552 and at least one from MATH 2057, 2058, 2070, 2085, 2090. For students majoring in mathematics, physics, and engineering. Fourier analysis on the real line, the integers, and finite cyclic groups. Fourier transforms, generalized functions, Fourier transforms on classical groups. Fourier transforms on Euclidean space. Applications to modern applications and computational methods.

4340 Partial Differential Equations (3) V Prereq: either MATH 2057, 2090, and knowledge of Laplace transforms; or MATH 2057, 2055, or 2070 and 2085. First-order partial differential equations and systems, canonical second-order linear partial differential equations and their characteristics. Method of characteristics, properties of solutions, and applications.

4343 Special Functions (3) V Prereq: either MATH 2057 and 2090; or MATH 2057, 2055 or 2070 and 2085. Sturm-Liouville differential equations and their applications to the problems of quantum mechanics, Legendre, Hermite, and other expansion including Fourier series, recursion relations and generating functions, gamma and beta functions, Chebyshev polynomials, and other topics.

4470 Error-Correcting Codes (3) V Prereq: MATH 2085 or 2090 or equivalent knowledge of linear algebra. Vector spaces, linear transformations, basic properties of codes, examples of important codes and decoding schemes, bounds on sizes and rates of codes, the weight enumerator polynomial, and other topics.

4998 Senior Seminar for Mathematics Majors (3) S Prereq: the student should be within two semesters of completion of requirements for a mathematics major; for undergraduate guidance toward the teaching the course, student will undertake several independent research projects and write expository papers; oral presentations will follow preparation of written papers.

4999 Selected Readings in Mathematics (1-3) Prereq: consent of department. May be taken for a max. of 9 sem. hrs. credit.

5100 Elements of Calculus (3) Su Prereq: MATH 1550 and 1552; or equivalent. For secondary school teachers. Not for credit toward a graduate degree in mathematics. Limits, continuity, derivatives, integrals, infinite series; applications. May be taken as a first-year calculus with a more theoretical emphasis.

5200 Multidimensional Calculus and Linear Algebra (3) V Prereq: MATH 2057 and 2085; or equivalent. For secondary school teachers. May be taken for credit toward a graduate degree in mathematics. Three-dimensional analytic geometry, partial derivatives, multiple integrals, linear equations and systems, determinants, vector spaces, linear transformations, review of multivariate calculus and linear algebra with a more theoretical emphasis.

5201 The NCTM Standards (1) Enrollment restricted to participants in teacher-training, grant-supported programs. May be taken for a max. of 9 sem. hrs. credit when topics vary. Topics for mathematics teachers (grades 4-5) to be selected from those in the "Standards of the National Council of Teachers in Mathematics."

5202 The NCTM Standards II (3) Enrollment restricted to participants in teacher-training and grant-supported programs. May be taken for a max. of 9 sem. hrs. credit when topics vary. Topics for mathematics teachers (grades 6-8) to be selected from those in the "Standards of the National Council of Teachers in Mathematics."

5203 Geometric and Abstract Algebra (3) Prereq: MATH 2085 or equivalent. Linear algebra, rings, finite fields, groups, multilinear algebra, other topics.

5410 Abstract Algebra (3) V Prereq: MATH 2085 or equivalent. Groups, rings, modules, introductory number theory, projective and injective rings, fields, algebraic, transcendental, normal, separable field extensions; Galois theory, valuation theory, Noetherian and Dedekind domains; commutative rings.

5280 Seminar in Commutative Algebra (1-3) V Prereq: consent of department. May be repeated for credit with consent of the department. Advanced topics such as commutative algebra, integral closure, and algebraic geometry.

5270 Seminar in Algebra and Number Theory (1-3) V Prereq: consent of department. May be repeated for credit with consent of the department. Advanced topics such as algebraic number theory, algebraic semigroups, quadratic forms, or algebraic K-theory.

7311 Real Analysis I (3) Prereq: MATH 4032 or equivalent. Axiom of choice, Lebesgue measure and integration, convergence theorems, differentiation and continuity; differentiation, Minkowski-Holder inequalities, Riesz-Fischer theorem.

7312 Real Analysis II (3) Prereq: MATH 7311 or equivalent. Lebesgue measure and integration theory, Banach spaces, bounded linear operators, Hilbert spaces, weak topologies, general measure and integration, Riesz representation theorem, other related topics.

7312 Ordinary Differential Equations (3) S Prereq: MATH 2085 and 4031; or equivalent. Existence and uniqueness theorems, approximation methods, linear equations, linear systems, stability theory; other topics such as boundary value problems.

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; dual spaces in Banach spaces, weak topologies; other topics such as commutative Banach algebras, spectral theory, distributions, and Fourier transforms.

7500 Complex Analysis (3) V Prereq: MATH 7311 or equivalent. Theory of holomorphic functions of one complex variable; path integrals, power series, singularities, mappings, residues, poles, more topics, and other topics.

7600 Probability Theory (3) F Prereq: MATH 7311 or equivalent. Probability spaces, random variables and expectations, independence, convergence concepts, laws of large numbers, central limit theorem, characteristic functions, central limit theorem, limiting distributions, martingales.

7730 Lie Groups and Representation Theory (3) V Prereq: MATH 7312, 7020, and 7510 or equivalent. Lie groups; Lie algebras, subgroups, homomorphisms, the exponential map; also topics in finite and infinite dimensional representation theory.

7731 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 non-linear functional analysis.

7732 Seminar in Analysis (1-3) V Prereq: consent of department. May be repeated for credit with consent of department. Advanced topics such as Fourier analysis, special topics such as combinatorics, graph theory, automata theory, or optimization.

7510 Topology I (3) Prereq: MATH 2057 or equivalent. Basic notions of general topology, with emphasis on Euclidean and metric spaces, continuous and differentiable functions, inverse function theorem and its consequences.

7512 Topology II (3) Prereq: MATH 7510. Theory of the fundamental group and covering spaces including the Seifert-Van Kampen theorem, classification of covering spaces, classification of covering spaces; selected areas from algebraic or general topology.

7520 Algebraic Topology (3) S Prereq: MATH 7200 and 7510 or equivalent. Basic concepts of homology, cohomology, and homotopy theory.

7550 Differential Geometry and Topology (3) F Prereq: MATH 7200 and 7510; or equivalent. Manifolds, vector fields, vector bundles, transversality, Riemannian geometry, other topics.

7590 Seminar in Geometry and Algebraic Topology (1-3) V Prereq: consent of department. May be repeated for credit with consent of department. Advanced topics such as algebraic topology, transformation groups, surgery theory, sheaf theory, or fiber bundles.

7690 Seminar in Topological Algebra (1-3) V Prereq: consent of department. May be repeated for credit with consent of department. Advanced topics such as topological groups, topological semigroups, or topological lattices.

7999 Selected Readings in Mathematics (1-3) Prereq: consent of department. May be repeated for credit with consent of department.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

MECHANICAL ENGINEERING • ME

2733 Principles of Thermodynamics I (3) Prereq: grade of "C" or better in MATH 2057 and PHYS 2101; or equivalent. Thermodynamic systems and control volumes; physical properties; work and heat; first and second laws of thermodynamics; phase equilibria and manipulation of properties and behavior by adjustment of composition and processing variables; responses of engineering materials to stress and environmental variables.

2833 Fluid Mechanics I (3) Prereq: CE 2450, ME 2333, Statics and dynamics of continuum liquids and gases; integral analysis, differential analysis, dimensional analysis, and similarity of fluid flows; incompressible flows; internal viscous flows; laboratory exercises.

3103 Engineering Mechanics Statics, and Dynamics (3) Prereq: CE 1440 and MATH 2052 or equivalent. Credit will not be given for both this course and either CE 2450 or ME 3133. Equilibrium, kinematics, and kinetics of particles and rigid bodies in a plane.

3133 Dynamics (3) Prereq: CE 2450 and MATH 1552. 2 hrs. lecture; 1 hrs. recitation. Vectorial treatment of kinematics and kinetics of particles and rigid bodies; force, mass, acceleration; impulse and momentum; work and energy transfer.

3249, 3250 Engineering Practice (1-3,1-3) Su Prereq: consent of instructor. Pass-fail grading. A minimum of 6 weeks full-time employment in industry participating in the summer program. Same as ENGR 3049, 3050. Selected engineering problems in an industrial environment.

3323 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.

3342 Principles of Thermodynamics II (2) Prereq: ME 2333. Cycle analysis; Clapeyron equation; volume expansivity, isothermal and adiabatic compressibility; mixture properties.

3602 Fundamentals of Instrumentation (2) Prereq: EE 3950 and 3951, or equivalent; and proficiency in English as required by the College of Engineering, 1 hr. lecture; 3 hrs. laboratory. Theoretical and experimental aspects of instrumentation fundamentals; analog and digital instrumentation.

3701 Materials of Engineering Laboratory (1) Prereq: proficiency in English as required by the College of Engineering, 1 hr. lecture; 2 hrs. laboratory. Basic materials, mechanical properties, applications and problems in processing and shaping; materials in selected mechanical systems.

3842 Fluid Mechanics II (2) Prereq: ME 2833. External viscous flows; compressible flows; turbulence; turbomachinery; laboratory demonstrations and experiments.

3918 Special Projects for Undergraduates (3) Prereq: 2.50 cumulative grade point average of department. May be taken for a max. of 9 hrs. of credit. Library research, comprehensive design problems, and laboratory investigations.

4133 Machine Design I (3) Prereq.: CSC 2262 and ME 3314. Basic concepts of statics, materials, and dynamic analysis and synthesis of mechanisms.

4143 Mechanical Vibrations (3) Prereq.: CE 3400, MATH 2070, and ME 4133; or equivalent. Basic principles of vibration theory, dynamic degrees of freedom; dynamic balancing; applications to mechanical systems.
4611 Thermal System Laboratory (1) Prereq.: ME 3342 and 3602 or equivalent. 3 hrs. lab. Oral presentations required. Thermal system analysis and independent experimental
verification.

4621 Thermal Science Laboratory (1) Prereq.: ME 3602, 3842, 4343, or equivalent. Laboratory demonstrations and experimentation in fluid mechanics, thermodynamics, and heat transfer.

4633 Internal Combustion Engines (3) Prereq.: ME 2333 or 3333 or equivalent. Classification of internal combustion engines, gas turbines, cycles with different components; engine design; engine cycles, detonation, carburetion, compression-ignition engines, combustion and diesel knock, fuel atomization and atomizers, combustion chambers, two- and four-cylinder engines, and supercharging.

4643 Thermal Environmental Engineering (3) Prereq.: ME 3342 and credit in registration in ME 4433, or equivalent. Design of thermal environment for humans, animals, processes, and inanimate objects; the means of control.

4663 Power Plant Engineering (3) Prereq.: ME 3342 and 4431; or equivalent. Power plants for industrial and central-station use; emphasis on cycles, design, capabilities, and economics of the plant as a whole; components used in various types of plants.

4761 Introduction to Modern Control Theory (3) S Prereq.: ECE 2472 or equivalent. State space modeling, controllability, observability and stability, pole placement, optimal control laws via minimum principle and dynamic programming.

4713 Macroscopic and Microscopic Examination of Materials (3) S Prereq.: ME 2733 or equivalent. Survey of macroscopic and microscopic examination of materials; optics; photographic and electronic image storage; excitation by photons, electrons, ions, X-rays, and ultrasonic waves; and optical and electronic microstructure; demonstration of selected techniques.

4723 Deformation and Fracture of Engineering Materials (3) S Prereq.: CE 3400 and either ME 2733 or equivalent. Application of the principles of diffusion and phase transformation to describe the microstructural development in materials, including metals, ceramics, and plastics to solve engineering problems; advanced numerical methods.

4753 Thermodynamics of Solids (3) S Prereq.: ME 2333 and 2733 or equivalent. Application of classical thermodynamics to metallic and other solid systems; statistical interpretation of entropy; free energy and its use in explaining phase transformations.

4763 Fundamentals of Corrosion Science and Engineering (3) F Prereq.: ME 2733 or equivalent, and any first course in thermodynamics. Corrosion principles; polarisation; formation, identification, and control of corrosion phenomena; principles and methods used in corrosion prevention.

4773 Composite Materials: Manufacturing, Properties, and Design (3) Prereq.: ME 2733 and 3400 or equivalent. Constituent materials, micro- and macromechanics of mechanical behavior, fracture, manufacturing and design of components made of composite materials, including polymer, ceramic, and metal matrix materials.

4843 Gas Dynamics (3) F Prereq.: MATH 2070 and ME 3342; or equivalent. Derivation and review of basic equations of compressible fluid flow; reduction of the general problem to 1-D flow; 1-D flow in nozzles with and without friction; 1-D flow with heat addition; normal shock wave, oblique shock wave, Mach number, and Mach wave shock waves.

4853 Turbomachinery (3) Prereq.: ME 3342, 3842, and 4343. Preliminary design of axial- and radial-flow pumps, compressors, and turbines; determination of optimum flow angles and dimensions, blade design, blade selection, and performance prediction.

4923 Advanced Topics in Mechanical Engineering (3) Prereq.: senior standing in mechanical engineering or related discipline. May be taken for a max. of 6 hrs. of credit when topics vary. (Same course may be offered in秋季 semester to provide an opportunity for special interest in the analysis and design of water, land, air, and space transportation systems.

7183 Commission on Fluid Flow and Heat Transfer (3) S Prereq.: ME 2833 and 3443 or equivalent. Finite-difference methods for the solution of parabolic or boundary value problems; numerical solution of the heat equation for two-dimensional boundary layers; wall boundary layers, jets and wakes, flows in pipes, annuli, nozzles, and diffusion.

7283 Commission on Fluid Flow and Heat Transfer (3) S Prereq.: ME 2833 and 4433 and either ME 1240 or 1241 or 2262 or ME 4533 or equivalent. Finite-difference methods for solving equations of fluid motions and energy; computer program used to solve complex problems involving fluid flow, heat transfer, and chemical reaction; mathe-
2146 Secondary Euphonium (2-3)
2147 Secondary Trombone (2-3)
2148 Secondary Tuba (2-3)
2149 Secondary Percussion (2-3)
2151 Secondary Composition (2-3)
2152 Secondary Guitar (2-3)

Primary Applied Music Courses
These courses are for students whose declared major or minor is the specific instrument designated by the course number.

3130 Primary Voice (2-3)
3131 Primary Piano (2-3)
3132 Primary Harpsichord (2-3)
3133 Primary Organ (2-3)
3134 Primary Harp (2-3)
3135 Primary Violin (2-3)
3136 Primary Viola (2-3)
3137 Primary Cello (2-3)
3138 Primary String Bass (2-3)
3139 Primary Flute (2-3)
3140 Primary Oboe (2-3)
3141 Primary Clarinet (2-3)
3142 Primary Saxophone (2-3)
3143 Primary Bassoon (2-3)
3144 Primary Trumpet (2-3)
3145 Primary French Horn (2-3)
3146 Primary Euphonium (2-3)
3147 Primary Trombone (2-3)
3148 Primary Tuba (2-3)
3149 Primary Percussion (2-3)
3151 Primary Composition (2-3)
3152 Primary Guitar (2-3)

Graduate Applied Music Courses
7030 Graduate Voice (2-6)
7031 Graduate Piano (2-6)
7032 Graduate Harpsichord (2-6)
7033 Graduate Organ (2-6)
7034 Graduate Harp (2-6)
7035 Graduate Violin (2-6)
7036 Graduate Viola (2-6)
7037 Graduate Cello (2-6)
7038 Graduate String Bass (2-6)
7039 Graduate Flute (2-6)
7040 Graduate Oboe (2-6)
7041 Graduate Clarinet (2-6)
7042 Graduate Saxophone (2-6)
7043 Graduate Bassoon (2-6)
7044 Graduate Trumpet (2-6)
7045 Graduate French Horn (2-6)
7046 Graduate Euphonium (2-6)
7047 Graduate Trombone (2-6)
7048 Graduate Tuba (2-6)
7049 Graduate Percussion (2-6)
7051 Graduate Composition (2-6)
7052 Graduate Guitar (2-6)

ENSEMBLE COURSES
Admission to ensemble courses is by audition only, with the exception of 4230, 4252, 4233, and 4234. These courses are open to freshmen and sophomores. Courses marked with an asterisk (*) will satisfy the requirement to participate in a major ensemble each semester.

4220 Piano Ensemble (1)
4221 Vocal Chamber Music (1)
4222 Woodwind Chamber Music (1)
4223 Brass Chamber Music (1)
4224 String (or Piano and Strings) Chamber Music (1)
4225 Collegium Musicum (1)
4226 Percussion Ensemble (1)
4227 Marimba Ensemble (1)
4228 New Music Ensemble (1)
4229 Harp Ensemble (1)
4230 Gospel Choir (1)
4231 Swing Choir (1)
4232 Men’s Chorus (1)
4233 Women’s Chorus (1)
4234 University Chorus (0-1)
4235 Chamber Choir (1)
4236 A Cappella Choir (1)
4240 Opera Chorus (1)
4250 Tiger Marching Band (1)
4251 Wind Ensemble (6-1)
4252 Symphonic Band (6-1)
4254 Concert Band (6-1)
4253 Jazz Band (1)
4260 Philharmonia (1)
4261 Symphony Orchestra (6-1)

GENERAL COURSES
1001, 1002 Voice Class (2,2) Open to nonmusic majors with consent of instructor. Group instruction in voice production.
1010 In Concert (1) 2 hr. 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.
1015, 1019 Diction for Singers I, II (1,1.5) 1 hr. lab. Phonetics and phonemes used in singing different languages; 1018 includes the phonetic alphabet and English diction; 1019 includes the phonetic alphabet and Italian diction.
1107 Secondary Piano (3) 2 half-hour lessons. May be taken for a max. of 6 hrs. of credit.
1108, 1109 Piano Class (2,2) MUS 1108 or consent of instructor is prerequisite for 1109. Open only to nonmusic majors. Instruction for the beginning and lower intermediate student.
1130, 1131, 1132, 1133 Group Piano I, II, III, IV (1 each) Open only to music majors. Required of all non-keyboard music majors who do not meet proficiency requirements. Functional use of the piano.
1700 Recital Hour (0) May be repeated. Pass-fail grading. Weekly student recital and music seminar.
1701, 1702 First-Year Theory (4) 4-5 6 hrs. lecture and lab. Lab assignments depend on student’s needs. Elements of form, melody, rhythm, harmony, and aural skills.
1703, 1704 First-Year Theory (4) Prereq. MUS 1701 or equivalent. 6 hrs. lecture and lab. Lab assignments depend on student’s needs. Elements of form, melody, rhythm, harmony, and aural skills.
1705 First-Year Theory (4) Prereq. MUS 1701, with special honors emphasis for qualified students.
1706, 1707 First-Year Theory (4) Same as MUS 1701, with special honors emphasis for qualified students.
1708 Music Appreciation (3) Primarily for nonmusic majors. The art of music, with emphasis on listening skills; a non-technical approach to understanding vocabulary and materials of music; correlation of musical literature with other disciplines in the humanities.
1709 Music Appreciation (3) Primarily for nonmusic majors. The varied facets of the musical arts: folk music, symphony, opera, ballet, vocal, and chamber music.
1753 Survey of Music History I (3) Some prior music experience is desirable. Music of western civilization from ca. 400 to ca. 1730.
1754 Survey of Music History II (3) Some prior music experience is desirable. Music of western civilization from ca. 1730 to the present.
1799 Rudiments of Music (3) Not open to music majors. The grammar of music, including basic notation and elements of construction leading to a study of tonal harmony.
2000 History of Jazz (3) Open to nonmusic majors. Survey of the evolution of jazz and jazz styles.
2018, 2019 Diction for Singers III, IV (1,1) Phonetics and phonemes used in singing in different languages; 2018 includes the phonetic alphabet and German diction; 2019 includes the phonetic alphabet and French diction.
2100, 2101 Advanced Keyboard Skills I, II (1,1) Open only to keyboard majors. Functional use of the piano; emphasis on reading, harmonization, and improvisation.
2170 Music Education in the Elementary School I (3) Music fundamentals, materials, methods, and skills involved in teaching general music in the elementary school; emphasis on use of guitar to teach music lessons.
2300 Instrumental and Vocal Techniques (1-2) May be repeated with credit. For prospective secondary school teachers of instrumental music. 2 hrs. lecture; 1 hr. lab. Woodwind, brass, percussion, and strings each may be taken for 2 hrs. of credit; voice may be taken for 1 hr. of credit only. Development of fundamental skills in voice, wind, string, and percussion instruments and voice.
2711 Theory (4) Prereq.: MUS 1702. Elements of harmony, melody, rhythm, and keyboard and aural skills.
2712 Theory (4) Prereq.: MUS 2711. Continuation of MUS 2711.
2713 HONORS: Second-Year Theory (4) Same as MUS 2711; with special honors emphasis for qualified students.
2714 HONORS: Second-Year Theory (4) Same as MUS 2711; with special honors emphasis for qualified students.
2741 Composition Techniques I-2 (3-3) Prereq. permission of instructor. May be taken for a max. of 9 sem. hrs. of credit. Development of basic skills in composition; analysis and audition of selected scores.
2751 Jazz Improvisation I (2) Prereq.: MUS 2712 or equivalent. Introductory performance course in jazz improvisation and its basis on its theoretical basis.
2752 Jazz Improvisation II (2) Prereq.: MUS 2751 or equivalent. Continuation of MUS 2751.
3000 HONORS in Music (1-4) Prereq.: junior standing. May be taken for a max. of 6 sem. hrs. of credit. Preparation of an honors project.
3018 Vocal Pedagogy (3) Prereq.: 12 sem. hrs. of applied voice study. Principles and processes of voice production; psychology of teaching and studying singing; beginning comparative pedagogy; vocal repertoire for the beginning singer.
3703 Theory Survey (2) Admission by placement examination. 2 hrs. lecture; 1 hr. lab. Written aspects of theory.
3704 Theory Survey: Aural Skills (1) Admission by placement examination. 2 hrs. lab. Dictation and sight singing.
3707 History of Musical Style I (3) History of music in the Western world from ancient roots to about 1750, as seen from the perspective of changing musical styles; music and ideas of leading composers and theorists of each period.
3708 History of Musical Style II (3) History of music in the Western world from about 1750 to the present; music and ideas of leading composers of each period.
3711 Form and Analysis (3) Prereq.: MUS 2711. Evolution of form and textures of representative works from various periods of music history.
3748 Choral Conducting (2) Only credit will not be given for both this course and MUS 3749. Elements of conducting choral groups.
3749 Choral Literature and Conducting I (3) Credit will not be given for both this course and MUS 3748. Elements of conducting choral groups; survey of choral literature for secondary school teaching.
3750 Choral Literature and Conducting II (3) Prereq.: MUS 3749 or equivalent. Continuation of MUS 3749.
3751 Organ Literature, History, and Design (3-3) MUS 3757 is prerequisite for 3756. Evolution and development of the organ and its literature; development of keyboard (organ) forms, techniques, and idiomatic styles; organ mechanism and action; tonal structure; design problems.
3771 Instrumental Conducting I (2) Elements of conducting instrumental groups.
3772 Instrumental Conducting II (3) Prereq.: MUS 3771 or equivalent. 1 hr. lecture; 2 hrs. lab. Continuation of MUS 3771.
3977 Directed Studies in Music (1-3) Prereq.: consent of departmental faculty concerned and dean of the School of Music. May be taken for a max. of 6 sem. hrs. of credit. MUS 3997 cannot be used in lieu of a required course in any School of Music curriculum.
4091 Basic Techniques of Audio Recording (3) Basic properties of audio and various forms of sound energy; analysis of complete audio systems for sound reinforcement and individual system components; aspects of stereo concert recording; emphasis on microphones and the use of audio recording techniques, including editing and tape duplication.

7124 Seminar in String Literature (2) Methods, solos, and chamber music for strings.

7116, 7127 Seminar in Woodwind Literature I, II (2) Methodology, tonal development for woodwinds.

7181 Seminar in Brass Literature (3) Methods, solos, and ensemble literature for brass instruments.

7197, 7171 Advanced Vocal Pedagogy (2,3) Also offered as EDIC 7170, 7171.

7172 Stringed-Instrument Pedagogy (2) Also offered as EDIC 7172.

7173 Woodwind-Instrument Pedagogy (2) Also offered as EDIC 7173.

7174 Brass-Instrument Pedagogy (2) Also offered as EDIC 7174.

7175 Percussion-Instrument Pedagogy (2) Also offered as EDIC 7175.

7221 Solo Literature for the Voice (3) (Prereq.: MUS 4351 and 4352; or equivalent). Solo vocal literature in German, Italian, French, and English; stylistic and performance practice.

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, and Latin American composers; emphasis on styles of performance.

7580 Advanced Teaching Practicum (1-2) (Prereq.: MUS 4767 and 4770; or equivalent). May be repeated for credit. A total of 3 sem. hrs. is applicable to the M.M. degree. Supervised teaching internship of instrumental and/or vocal instruction in private and/or group settings.

7591 Piano Pedagogy and Literature I (2) (Prereq.: MUS 4763, 4764; or equivalent). Piano methods and literature at the elementary and intermediate levels.

7592 Piano Pedagogy and Literature II (2) (Prereq.: MUS 4763, 4764; or equivalent). Piano methods and literature at the intermediate and advanced levels.

7570 College Teaching in Music (2) History of music in higher education; current issues, problems, and techniques of college teaching in music.

7708 Survey of Analytical Techniques (3) Required of all B.M. candidates. Survey of analytical tools and concepts for common practice and 20th century repertoire.

7709 Pedagogy of Music Theory (3) Techniques for teaching theory, analysis, and counterpoint courses; comparisons of principal philosophies and textbooks.


7704 Analysis (3) Introduction to the ideas and practices of tonal theorist, Heinrich Schenker; their effect on musical thought and performance in this century.

7710 Theory and Analysis of Tonal Music (3) Readings and practice in various approaches to the analysis of music of the tonal era (ca. 1600-1900).

7711 Seminar in 20th Century Musical Analysis (3) May be taken for a max. of 6 hrs. of credit. Analytical study of specific composers, or comparison of composers; comparisons of principal philosophies and textbooks.

7712 Seminar in Choral Literature I (2) A survey of choral literature beginning with Gregorian Chant and ending with the Baroque period of music, with emphasis on preparation for performance.

7712 Seminar in Choral Literature II (2) A survey of choral literature beginning with the Classical period and ending with contemporary music for choral; with emphasis on preparation for performance.

7723 Seminar in Wind Literature I (2) A survey of chamber wind literature (6 to 20 performers) from the late Renaissance to the present.

7724 Seminar in Wind Literature II (2) A survey of orchestral, large wind ensemble, and large band wind literature (more than 20 performers) from the French Revolution to the present.

7725 Seminar of Symphonic Literature I (2) A survey of orchestral works beginning with the Baroque period of
music and ending with the early Romantic; emphasis on preparation for performance.

7726 Survey of Synthesis. Literature II (3) A survey of orchestral works beginning with the Romantic period and ending with 20th century music for orchestra, with emphasis on preparation for performance.

7749, 7750 Special Studies in Piano Literature (2,2) Each course may be taken for a max. of 4 hrs. of credit when piano literature varies. Total amount of credit applicable to M. degree is limited by student's advisory committee.

7751 Ancient and Medieval Music (3) History of music from ancient Greeks and Hebrews through the 14th century.


7753 Music of the Baroque Era (3)

7754 Music in the Classical Era (3)

7755 Music in the Romantic Era (3)

7756 Music in the Modern Era (3)

7757 American Music (3) The most important phases in development of music in the U.S.

7760 Performance Practices (3) Primary and secondary source material; development of the developments in the 17th and 18th centuries; their application to the interpretation of music.

7762 Research in Music Education (3) Emphasis on psychology, educational theory, and research techniques.

7763, 7764 Comparative Methods in Music Education (3,3) Techniques in teaching music; functional projects; approaches and texts evaluated with emphasis on curriculum construction; 7763 deals with elementary grades, 7764 with secondary.

7767 Experimental Research in Music (3) Prereq.: EDAF 4006 and MUS 7005. Primarily for doctoral students in music. Systematic investigation of musical behavior and music learning; collection, quantification, and treatment of data; current research.

7771, 7772 Advanced Choral Conducting (3,3) Prereq.: previous study of conducting. A study of the techniques required to conduct all styles of choral music, with emphasis on score analysis and performance practices.

7773, 7774 Advanced Band Conducting (3,3) Prereq.: previous study of conducting. A study of the techniques required to conduct all styles of wind music, with emphasis on score analysis and performance function.

7775, 7776 Advanced Orchestral Conducting (3,3) Prereq.: previous study of conducting. A study of the techniques required to conduct all styles of symphonic music, with emphasis on score analysis and performance practices.

7777, 7778 Advanced Keyboard Literature I, II, III (3,3,3) Prereq.: MUS 4757, 4758, 4759, and 4760; or equivalent. Genres and styles from earliest examples in keyboard literature through the most recent trends.

7779 Master's Pedagogy Project (2) Pass/fail grading. Completion of a presentation and short supporting paper on a pedagogical topic.

7780 Master's Recital (1-3) Prereq.: MUS 4797 or equivalent. May be taken for a max. of 3 sem. hrs. of credit.

7799 Advanced Coaching in Applied Music (2) May be repeated for credit. Max. amount of credit applicable toward a degree is 4 sem. hrs.

8700 Introduction to Research in Music (3) Required of all doctoral students; recommended for master's students who will write theses. Development of music research skills including knowledge of research resources and materials; use of literature; practice in a clear and logical writing style; and use of wide variety of methodologies and modes of inquiry.

7901 Composition I (3) A series designed to familiarize the composer with the current state of the art and to prepare the composer for the composition of music. Required of all composers.

7903, 7904 Seminar in Music History (3,3) Each course may be repeated for credit. Only 6 sem. hrs. applicable to the M. degree; only 12 additional sem. hrs. applicable to the Ph.D. maximum for M.M.Ed. and Ph.D. combined is 18 sem. hrs.

7905, 7906 Seminar in Music Education (2-6,2-6) Each course may be taken 3 times for credit. Only 6 sem. hrs. applicable to the M.M.Ed. degree; only 12 additional sem. hrs. applicable to the Ph.D. maximum for M.M.Ed. and Ph.D. combined is 18 sem. hrs.

9721 Seminar in Music Theory (3) Primarily for master's candidates. May be taken for a max. of 6 hrs. of degree credit.

9797 Individual Projects in Music (1-3) Prereq.: consent of departmental faculty concerned and dean of the School of Music. May be repeated for credit as follows: master's, 1 sem. hr.; for doctoral, 6 sem. hrs. over the 9 sem. hrs. beyond the master's or a total of 9 sem. hrs. if both master's and doctoral totals included.

9798 Special Studies 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.

0500 Thesis Research (1-12 per sem.) "S" or "U" grading.

0900 Dissertation Research (1-12 per sem.) "S" or "U" grading.

1901 First Doctoral Solo Recital (1-3)

1902 Second Doctoral Solo Recital (1-3)

1903 First Doctoral Lecture Recital (1-3)

1904 Second Doctoral Lecture Recital (1-3)

1905 Concerto with Orchestra (1-2)

1906 Major Solo Part in an Oratorio or a Cantata (1)

1907 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 D.M.A. degree.

1908 Doctor of Musical Arts Chamber Music Recital (2) May be repeated for credit.

1909 Research and Monograph (1-12) S/U grading. For D.M.A. candidates in performance only. May be repeated without a limit until mastered.

1910 Lecture Recital with Written Document (3) Pass/fail grading.

1921 Seminar in Music Theory (3) For doctoral candidates only. May be taken for a max. of 6 hrs. of degree credit.

1975, 1979 Repertoire (3,3) Each course may be taken for a max. of 9 hrs. of credit; however, amount of credit applicable to a degree is determined by student's advisory committee.

1991 Doctoral Seminar in Musical Composition (1-3) Prereq.: 12 hrs. of credit in music; Beethoven's Missa solemnis in D minor (M. 60-64) may be repeated for credit. Class size limited.

1925 to 1937 Series (3) Seminar in Literature and Style in Performance (3 each) Historical developments of the various performance areas with concentration on their literature, important pedagogical principles, and stylistic problems related to each medium. To be given as follows: 1925, 1926 Voice

1927, 1928 Voice

1929, 1930 Organ

1931, 1932 Strings

1933, 1934 Woodwinds

1935, 1936 Brass

1937 Percussion

3997 Nuclear Science. - NS

Students and staff utilizing facilities of the Nuclear Science Center must take, as their initial training, Nuclear Science 3411, 4101, or 4531, or must have equivalent prior training or experience.

2851 Contemporary Radiological Science (3) Prereq.: a knowledge of physics or biology. Radioactivity and the body; nuclear physics; nuclear technology; nuclear medicine; the use of digital and computer techniques in nuclear science.

3411 Fundamentals of Nuclear Radiation Science (3) Prereq.: one sem. of MATH 2020/2121 or equivalent and one sem. of physics or chemistry; 2 hrs. lecture; 3 hrs. lab. Nuclear structure, transmutations, decay, interactions of radiation with matter; radiation detection and measurement.

4181 Trace Methodology for Biological Sciences (3) 2 hrs. lecture/demonstration; 3 hrs. lab. Prereq.: a knowledge of the biology sciences. Properties of ionizing radiation, instrumentation for detecting and measuring radiation, and biological uses of radioisotopes.

4141 Radiochemistry (3) Prereq.: MUS 4101 or equivalent. 2 hrs. lecture; 3 hrs. lab. Also offered as ENVS 4141.

Radio tracers, stable tracers, and radiation effects in both natural and laboratory-contained communities of organisms.

4331 Radiation Protection and Exposure Evaluation (4) F Prereq.: 2400 or 2404, 2405. 3 hrs. lecture; 3 hrs. lab. Control and evaluation of radiation exposure, including external and internal dosimetry, techniques of dosimetry, and sample shielding and its exposure.
nous and heterogenous reactors; diffusion and transport
theorems for neutron flux calculations; criticality calcula-
tions; design of two-group, and multigroup methods; core
burn up analysis.
7529 Nuclear Reactor Dynamics (3) S Prereq.: NS 7527
and MATH 1550. Neutron, flux, and control parameters;
analytical and numerical point kinetics calcula-
tions; perturbation theory expressions for reactivity;
feedback effects, reactor transients and stability; cou-
pled neutronics and thermal hydraulic transients; space-
time kinetics.
7530 Nuclear Shielding Analysis and Design (2) F
Nuclear radiation interactions and their application to
the design and analysis of shield systems, calculation of source
terms, geometric transformations, attenuation factors, and
heat generation rates in nuclear shielding.
7537 Radiation Transport Theory I (3) F Prereq.: NS 7527
or NS 7530. Radiation transport simulation by the Monte
Carlo method, phase-space tracking, response esti-
mators; biasing methods and variance-reduction forms of
Boltzmann; neutron and photon transport calculations.
7535 Nuclear Reactor Analysis (3) S Prereq.: MATH 4032
or equivalent. Mathematical methods and solutions to
multigroup neutron diffusion and transport equations;
lattice physics methods; nodal tech-
iques; lattice constant and point reactor
1964 Radiation Transport Theory II (3) S Prereq.: NS 7527
or NS 7530. Radiation transport simulation by the Monte
Carlo method, phase-space tracking, response esti-
mators; biasing methods and variance-reduction forms of
Boltzmann; neutron and photon transport calculations.
7533 Advanced Nuclear Reactor Systems (3.5) FS
Prereq.: NS 4527 and NS 4528. Engineering aspects of
field
256 Nuclear Science

7546, 7547 Advanced Nuclear Reactor Systems (3.5) FS
Prereq.: NS 4527 and NS 4528. Engineering aspects of
field
256 Nuclear Science

OCEANOGRAPHY AND COASTAL SCIENCES - OCS
1005 Introduction to Oceanography (3) The world’s
oceans, their origin and evolution; interactions between
physical, biological, chemical, and biological processes in
the marine environment; use and abuse of oceans.
1007 Introduction to Marine Sciences: Physical Process-
es (4) F 3 hrs. lecture; 3 hrs. lab. Does not satisfy major
field course requirement for students in natural science curricula.
Also offered as B IOL 207 at Southern University in
Baton Rouge. Physical processes in marine and aquatic
environments; coastal processes and nearshore eco-
nomics; oceanic phenomena; coastal
optimization system; the oceans and coastal environments and their interactions;
1964 Radiation Transport Theory II (3) S Prereq.: NS 7527
or NS 7530. Radiation transport simulation by the Monte
Carlo method, phase-space tracking, response esti-
mators; biasing methods and variance-reduction forms of
Boltzmann; neutron and photon transport calculations.
7533 Advanced Nuclear Reactor Systems (3.5) FS
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field course requirement for students in natural science curricula.
Also offered as B IOL 207 at Southern University in
Baton Rouge. Physical processes in marine and aquatic
environments; coastal processes and nearshore eco-
nomics; oceanic phenomena; coastal
optimization system; the oceans and coastal environments and their interactions;
2101. Physical properties of reservoir rock related to the production of oil and gas.

2012 Reservoir Fluid Properties (3) S Prereq.: PETE 2010 and credit in PHYS 2102. Physical and chemical properties of petroleum reservoir fluids related to production of oil and gas.

2014 Rock and Fluid Properties Laboratory (1) S Prereq.: credit in PHYS 2102. Laboratory work for Petroleum Engineering.

3002 Communicating Petroleum Engineering Technology (3) Prereq.: ENGL 1002. Communication skills including technical writing, public speaking, group management, and computer usage applied to petroleum engineering topics.


3616 Well Logging (3) F Prereq.: EE 2950, PETE 2034, and HITS 2102. Qualitative and quantitative formation evaluation by means of electric, acoustic, and radioactive well logs.

3072 Petroleum Field Operations (1-3 hrs.) F Prereq.: credit or registration in PETE 3036. 3 hrs. lab. Field operations required for well logging; cement design and testing; sub-surface measurements; well surveys; and cleaning of drilling fluids.

5053 Petroleum Engineering Aspects of Subsurface Geology (3) G Prereq.: IE 1001, GEOL 1003 and 1001, and credit in MATH 2025 and 2035. Engineering aspects of petroleum geology; interpretation of subsurface data; reservoir mapping; determination of reservoir characteristics.

3998 Independent Research (1-2) F,S,Su May be taken for a max. of 3 sem. hrs. of credit. Number of hours, outline of proposed work, and name of faculty supervisor must be stated at time of registration. Individual research or engineering studies with faculty supervision.

4045 Drilling Engineering (3) F Prereq.: CHEM 1212, CE 2200 and 2400, MB 3353 and 3335, and PETE 3002 and 3035. Drilling process, including equipment and performance; well pressure control and buoyancy; geology; and optimum hydraulics of drilling fluids; oil well casing, cementing and perforating techniques.

4046 Well Design-Production (3) S Prereq.: PETE 4045 and senior standing in College of Engineering. Analysis and design of well production systems; rod pumping; gas lift; hydraulic fracturing; surface separation, and treating equipment.

4051 Reserve Estimation and Reservoir Management (3) F Prereq.: PETE 3002 and 3053, and credit or registration in PETE 4045. Quantitative study and behavior prediction of volumetric and water-drive reservoir systems based on material balance.

4052 Testing of Oil and Gas Wells (3) S Prereq.: PETE 4051 and senior standing in College of Engineering. Application of unsteady-state fluid flow in porous media; pressure drop and build-up tests; conventional and type-curve well test analysis.

4056 Numerical Simulation of Improved Recovery Processes (3) S Prereq.: MATH 2037 and 2065, and credit or registration in PETE 4051. Use of computer simulation to predict oil and gas reservoir performance and to design enhanced recovery processes.

4057 Petroleum Production Laboratory (1) F Prereq.: credit or registration in PETE 4045. Use of computer simulation to predict oil and gas reservoir performance and to design enhanced recovery processes.

4058 Reservoir Mechanics Laboratory (1) F Prereq.: credit or registration in PETE 4045. 3 hrs. lab. Instruments, equipment, and systems used in oil and gas production; pollution prevention and safety systems in offshore production operations.

4059 Drilling Fluids Laboratory (1) F Prereq.: credit or registration in PETE 4045. 3 hrs. lab. Accompanies PETE 4045.

4060 Prevention of Oil and Gas Well Blowouts (1) S Prereq.: credit or registration in PETE 4045. 3 hrs. lab. Causes and detection of well kicks and the proper handling of these kicks to prevent uncontrollable blowout (flowout) from the well; the kicks and techniques currently used in the oil and gas industry.


4085 Surface Handling of Produced Fluids (3) V Prereq.: PETE 3020 and 3414. 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, fractionators, and dehydration units.

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 mud weight; mud density; hole cleaning pressure; selection of well casing and casing setting depths; directional drilling; special design considerations for horizon wells.

4087 Environmental Control in Petroleum Engineering (3) V Prereq.: PETE 4045, 4051, and 4059. Environmental impact and pollution mechanisms in petroleum engineering technology; basic concepts of pollution prevention, generation, toxicity, and environmental regulatory process; synergy between process productivity and environmental performance.

4088 Formation Evaluation (3) V Prereq.: PETE 3036. Use of different formation evaluation techniques to provide a comprehensive description of reservoir property productivity and drilling fluid and cutting analysis; core analysis; formation tester; drillstem test; analysis of openhole logs by overlay, crossplot, and digital evaluation methods.

5089 Natural Gas Engineering (3) V Prereq.: PETE 4045. Application of reservoir engineer principles and practices to gas and gas-condensate reservoirs; prediction of gas well performance for development of all types of gas reservoirs; underground gas storage.

4043 Allocation and Appraisal of Petroleum Reserves (3) V Prereq.: PETE 3025, 3035, and 4051. Technical aspects of allocation and appraisal of petroleum properties subject to joint management.

4999 Senior Project (1) S Prereq.: PETE 4045 and 4051. Written and oral presentation required. Theoretical and/or experimental investigation, including a literature review, of an approved topic in petroleum engineering.

5011 Fluid Flow in Porous Media (3) V Prereq.: PETE 4052 and 4056, or equivalent. General hydrodynamic equations for flow of fluids through porous media; two-dimensional flow problems and potential theory methods; gravity flow systems; two-fluid systems; systems of non-uniform permeability; multiwell systems using computerized streamline tracking methods.

5022 Advanced Well Testing Theory and Analysis (3) V Prereq.: PETE 4051 and 4052 or equivalent. Unsteady state flow of reservoir fluids in porous media; application of theory to pressure buildup analysis, well interference testing, pulse testing, pressure draw down analysis, drill stem testing, and water influx prediction.

5011 Production System Analysis (3) V Prereq.: CE 2200, MB 3335, and PETE 4046 or equivalent. Use of multiphase flow correlations and pressure and temperature transverses in flowing oil wells, gas-condensate wells, gathering systems, and pipe lines; applications of computational fluid dynamic techniques to multiphase flows.

5012 Well Completion Design (3) V Prereq.: PETE 4046 or consent of instructor. Systems analysis for optimum production by designing best combination of tubing, flowing line, choke, safety valves, perforation pressure, and separator pressure; inflow performance of reservoirs; well completion techniques; gravel packing; tubing effects.

5011 Drilling Data Acquisition and Processing (3) V Prereq.: PETE 4059, 4060, and 4086 or equivalent. Mud and surface drilling data acquisition and processing; downhole data acquisition with drilling stopped and while drilling, data processing, formation evaluation and data analysis.

5022 Downhole Production Fluid Dynamics (3) V Prereq.: PETE 4087 and 4059. Oil and gas well core and fluid recovery; data analysis and completion techniques, thermodynamic properties of fluids; downhole production data acquisition and interpretation; cased hole formation evaluation.

5011 Nonthermal Methods of Enhanced Oil Recovery (3) V Theory and field practice related to miscible displacement processes and chemical and polymer flooding techniques.

5012 Thermal Methods of Oil Recovery (3) V Theory of heat transfer and heat generation applied to the performance of wellbore flow systems; heat transfer considerations as forward and reverse in situ combustion, continuous and cyclic hot fluid injection, and production well heating.

5014, 7424 Selected Topics in Advanced Petroleum Engineering (3) V May be repeated for credit. Topics vary; a total of 12 sem. hrs. of credit may be earned in these two courses.
PHILOSOPHY • PHIL

1000 Introduction to Philosophy (3) Major works on such themes as appearance and reality, human nature, nature of knowledge, relation of mind and body, right and good, existence of God, and freedom and determinism.

2001 Introduction to Philosophy: Elementary Logic (3) No special background presupposed. Formal and informal reasoning; traditional syllogistic logic; introduction to propositional logic; scientific method in natural and social sciences.

2000 Contemporary Moral Problems (3) Philosophical study of contemporary moral problems such as capital punishment, abortion, sex equality, sexual liberation, terrorism, war and nuclear arms, animal rights, world hunger, environmental ethics, and the morality of suicide.

2010 Introduction to Symbolic Logic (3) Propositional and elementary predicate logics; formal methods of proof; interpretation, and translation to and from natural language; philosophy of language underlying logic; relevance of formal logic to philosophical questions.

2018 Professional Ethics (3) Special problems of obligation and valuation related to law, medicine, politics, and education, as well as business, engineering, and architecture; altruism, trust, vacation, codes of honor, professional privilege, and responsibilities for others arising from different abilities.

2020 Ethics (3) Classical and recent theories of obligation and value, including works of philosophers such as Plato, Aristotle, Kant, Hume, and Nietzsche; topics including freedom, rights, justification of moral judgments.

2023 Philosophy of Art (3) Philosophical theories of beauty, art, and art criticism.

2024 Philosophy in Literature (3) Philosophical themes in world literature: fiction, poetry, drama, and autobiography.

2025 Bioethics (3) Defining health and disease; deciding on rights, duties, and obligations in the patient-physician relationship; abortion and the concept of a person; definition and determining of death; euthanasia and the dignity of death; allocation of medical resources, both large-scale and small-scale; experimentation with fetuses, children, prisoners, and animals; genetic testing, screening, and interference.

2028 Philosophical Themes in Science (3) Same as REL 2028. Essence and meaning of religion as a pervasive phenomenon in human societies; faith and reason, nature of divinity, arguments for and against God's existence, religious knowledge and experience, morality and cult, the problem of evil.

2030 History of Ancient and Medieval Philosophy (3) As honors course. PHIL 2030, is also available. Introduction to philosophy through a study of some of the main writings of classical and medieval philosophy.

2034 HONORS: Tutorial in Ancient and Medieval Philosophy (1) To be taken concurrently with PHIL 2033. 1 hr. of tutorial instruction per week for honors students.

2035 History of Modern Philosophy (3) An honors course. PHIL 2036, is also available. Introduction to philosophy through a study of some of the main writings of modern philosophy.

2036 HONORS: Tutorial in Modern Philosophy (1) To be taken concurrently with PHIL 2035. 1 hr. of tutorial instruction per week for honors students.

2043 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 philosophers.

2043, 2044 HONORS: Independent Work for Honors Students (1,1) Prereq.: sophomore standing, completion of at least 3 hrs. of philosophy with a grade of "B" or higher, and a grade of at least 3.0 in all work done. Readings, conferences, and reports under faculty direction.

3001 Existentialism (3) Basic themes of existentialist philosophy; the works of Kierkegaard, Nietzsche, Jaspers, Heidegger, Camus, Marcel, and Sartre.

3002 Philosophy and Film (3) Films as philosophical texts.

3020 Special Topics in Philosophy (1-3) May be taken twice for credit when topics vary.

3090 Friedrich Nietzsche (3) See GER 3300.

4010 Logic (3) Prereq.: PHIL 2010 or consent of instructor. First-order logic with extensions; semantics and syntax; deductive systems; metalogic.

4011 Topics in Advanced Logic (3) Prereq.: PHIL 4010 or consent of instructor. Also offered as LING 4011. Topics may include advanced metalogic of symbolic languages, intentional logics, and Montague grammar.

4015 Philosophy of Male and Female (3) Philosophical examination of the concepts of human nature which underlie a variety of theories about women and femininity.

3786 Selected Topics (3) May be taken for a max. of 6 sem. hrs, when topics vary.

4014 Philosophy of Language (3) Prereq.: one logic course or consent of instructor. Also offered as LING 4014. Various theories of meaning, their implications and presuppositions, and their relevance to issues in such areas as theory of perception, theory of truth, metaphysics, philosophy of mind, and action.

4922 Plato (3) Prereq.: PHIL 2013 or equivalent.

4924 Aristotle (3) Prereq.: PHIL 2013 or equivalent. Topics from Aristotle's Metaphysics, Physics, De Anima, and the logical treatises.

4928 Augustine, Aquinas, and Aquinas (3) Also offered as REL 4928. Study of three major figures in medieval philosophy—Aquinas, Augustine, and Aquinas—in the development of the patristic, monastic, and scholastic traditions.

4931 Descartes, Spinoza, and Leibniz (3) Prereq.: 6 hrs. of philosophy or consent of instructor. 17th century ratio­ nalism, with emphasis on philosophy of mind and metaphysics.

4933 Locke, Berkeley, Hume (3) Language, epistemology, ontology, self, God, causation, realism, and idealism in the writings of these British empiricists.

4935 Kant (3) Prereq.: PHIL 2013 or equivalent. Basic topics in Kant's philosophy of pure reason, judgments, self-construal, and history of philosophy.

4936 19th Century Philosophy (3) Prereq.: PHIL 2013 and/or 2015 or equivalent. 19th century philosophy, with emphasis on German thought; readings in Feche, Hegel, Marx, Nietzsche, Bergson, and others.

4938 Philosophical Thought in America (3) Late 19th and early 20th centuries; topics from such philosophers as Peirce, James, Royce, Dewey, Santayana, Ward, and Mead.

4940 Aesthetics (3) Meaning and truth in the arts; artistic intention; critical canons.

4941 Philosophy of Mind (3) Prereq.: PHIL 2013 and/or 2015 or equivalent. Recent philosophical treatments of human nature; the mind, ideas of the person in time, the person as rational and volitional, and relation of the person to the world.

4943 Problems in Ethical Theory (3) Prereq.: two courses in philosophy, or consent of instructor. Recent developments in ethics.

4944 Philosophical Theology (3) Prereq.: two courses in philosophy and/or religious studies. Also offered as REL 4944. Major themes and works in philosophical theology.

4950 Political Philosophy (3) Prereq.: PHIL 1000 or 2020 or equivalent. Freedom, obligation, authority, justice, law, the state, and revolution.

4956 Philosophy of Law (3) Moral issues in foundations of legal and political authority; nature of law; civil disobedi­ ence; principles of punishment; legal liability; morals legislation; "Good Samaritan" laws; moral basis of contract law.

4958 Phenomenology (3) Prereq.: PHIL 2013 or 4936 or equivalent. Contemporary phenomenology; reading in Husserl.

4951 Philosophy of Science (3) Prereq.: consent of instructor. Philosophical issues related to concept formation and theory creation in the natural, behavioral, and social sciences.

4958 Contemporary Analytic Philosophy (3) Prereq.: one logic course and either PHIL 2013 or 4933. Topics from leading philosophers in such contemporary movementas logical empiricism, and American pragmatism; language analysis, including Moore, Russell, Wittgenstein, Camp, Goodman, Ryle, Strawson, and Quine.

4954 Recent Speculative Philosophy (3) Prereq.: two other philosophy courses or consent of instructor. Theories of being and knowing in recent absolute idealism, process philosophy, and phenomenological existentialism.

4991 Independent Reading and Research (1-3) Prereq.: written consent of instructor and department. May be taken for a max. of 9 hrs., but not for credit when topics vary. Total credit earned as a graduate student in PHIL 4991 and PHIL 7991 combined may not exceed 9 hrs.

7901 Seminar in Contemporary Analytic Philosophy (3) Philosophy of language, metaphysics, antirealism, and realism and philosophy of logic and mathematics.

7903 Seminar in Continental Philosophy (3) Major figures and/or movements in continental philosophy.

7905 Seminar in History of Philosophy (3) May be taken for a max. of 9 hrs. of credit when topics vary. Study of a major philosopher or school of philosophy.

7910 Seminar (3) Prereq.: consent of department. Also offered as LING 7910.

7919 Independent Reading and Research (1-6) Prereq.: written consent of instructor and departmental director of graduate studies. Total credit earned as a graduate student in PHIL 4991 and PHIL 7991 combined may not exceed 9 sem. hrs.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.
PHYS 202 General Physics for Technical Students (3) Prereq.: PHYS 2101 and MATH 1552. Credit will not be given for both this course and PHYS 2102, 2002. Electricity, magnetism, physical optics, and topics from modern physics.

PHYS 2108 Introductory Physics Laboratory (1) Prereq.: credit or registration in PHYS 2001 or 2101. 3 hrs. lab. Credit will not be given for both this course and PHYS 2102, 2105. Laboratory to accompany PHYS 2001 or 2101.

PHYS 2207 General Physics Laboratory (1) Prereq.: PHYS 2108 and MATH 2056 or 2102. 3 hrs. lab. Credit will not be given for both this course and PHYS 2109. Laboratory to accompany PHYS 2002 and 2102; electricity, magnetism, geometrical and physical optics, and other topics in modern physics.

PHYS 251 Magnetic Circuits, Complex Variables, Fourier Series, Matrices and Determinants, Differential Equations with Application to Selected Problems in Physics

PHYS 283 Introductory Modern Physics (3) Prereq.: PHYS 2102 or 2101. Elementary modern physics; special relativity, wave-particle duality, quantum mechanics, hydrogen atom, many-electron atoms, nuclear structure, elementary particles, solid state, astrophysics, and cosmology.

PHYS 292 Introductory Modern Physics Laboratory (1) F Coreq.: PHYS 2203. Required for physics majors. Laboratory to accompany PHYS 2203.

PHYS 293 Classical Mechanics (3) Prereq.: PHYS 2102 or 2102 and MATH 2057. Basic concepts of mechanics with emphasis on corresponding mathematical techniques.

PHYS 295 Electricity and Magnetism (3) S Prereq.: PHYS 2221 or CHEM 4581 and credit or registration in MATH 2055 or 2050. Electrodynamics and magnetism; static and quasistatic electromagnetic fields in vacuo and in dielectric and magnetic media.

PHYS 401 Introduction to Concepts in Physics (3) V Prereq.: MATH 10201 or 0121 or an ACT math score of at least 25. Primarily for students in liberal arts and education. Historical evolution of some fundamental principles of physics; provides appreciation of physics; does not develop technical skill.

PHYS 402 Computational Science I (3) Prereq.: PHYS 2221 or PHYS 2102 and MATH 2057; or CHEM 4581 and credit or registration in MATH 2055 or 2050. Introduction to symbolic manipulation and numerical techniques used to analyze or simulate a broad range of physical systems.

PHYS 405 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.

PHYS 409 Instrumentation Electronics for Scientists (3) S Prereq.: PHYS 2102 and 2109; or PHYS 2102 and 2109, 2 hrs. lecture; 3 hrs. lab. Basic electronic technology and circuits used in modern scientific research; discrete components, operational amplifiers, and digital electronics.

PHYS 412 Intermediate Mathematical Physics (3) V Prereq.: PHYS 2221 or CHEM 4581; and credit or registration in MATH 2055 or 2050. Mathematical methods of physics, with application to selected problems.

PHYS 413 Modern Optics (3) Prereq.: PHYS 2221 and credit or registration in MATH 2055 or 2050; or CHEM 4581 and credit or registration in MATH 2055 or 2050. Basic physical concepts and methods appropriate to the study of light phenomena; quantum mechanics, quantum statistics, and optical systems; binocular vision.

PHYS 414 Electromagnetism and Electromagnetic Waves (3) Prereq.: PHYS 2221 and credit or registration in MATH 2055 or 2050; or CHEM 4581 and MATH 2056 or 2050. Electromagnetic fields and waves, wave propagation, and optics.}

PHYS 415 Quantum Mechanics (3,3) S Prereq.: PHYS 2221 and credit or registration in MATH 2055 or 2050; or CHEM 4581 and MATH 2056 or 2050. Review of classical and quantum mechanics, Schrodinger's equation, quantum mechanics, rebellions, and Hamilton-Jacobi theory.


PHYS 417 Statistical Mechanics (3) S Prereq.: PHYS 2221 and credit or registration in MATH 2055 or 2050. Concepts of statistical mechanics, the kinetic theory of gases, and quantum statistical thermodynamics.

PHYS 418 Quantum Mechanics (3,3) S Prereq.: PHYS 2221 and credit or registration in MATH 2055 or 2050. Development of the quantum mechanics of one electron in a central field; many-electron atoms; applications of quantum mechanics to atomic and molecular structure, radiation theory, and atomic and nuclear reactions.

PHYS 421 Advanced Modern Physics Laboratory (3) S Prereq.: PHYS 2102 and 2102, 1 hr. lab. Laboratory to accompany PHYS 414. Specialized experiments in quantum mechanics, special relativity, and electromagnetic theory; use of various electronic and mechanical equipment.

PHYS 422 Advanced Modern Physics Laboratory (3) S Prereq.: PHYS 2102 and 2102, 1 hr. lab. Laboratory to accompany PHYS 414. Specialized experiments in quantum mechanics, special relativity, and electromagnetic theory; use of various electronic and mechanical equipment.

PHYS 423 Advanced Modern Physics Laboratory (3) S Prereq.: PHYS 2102 and 2102, 1 hr. lab. Laboratory to accompany PHYS 414. Specialized experiments in quantum mechanics, special relativity, and electromagnetic theory; use of various electronic and mechanical equipment.

PHYS 424 Advanced Modern Physics Laboratory (3) S Prereq.: PHYS 2102 and 2102, 1 hr. lab. Laboratory to accompany PHYS 414. Specialized experiments in quantum mechanics, special relativity, and electromagnetic theory; use of various electronic and mechanical equipment.

PHYS 425 Advanced Modern Physics Laboratory (3) S Prereq.: PHYS 2102 and 2102, 1 hr. lab. Laboratory to accompany PHYS 414. Specialized experiments in quantum mechanics, special relativity, and electromagnetic theory; use of various electronic and mechanical equipment.

PHYS 426 Advanced Modern Physics Laboratory (3) S Prereq.: PHYS 2102 and 2102, 1 hr. lab. Laboratory to accompany PHYS 414. Specialized experiments in quantum mechanics, special relativity, and electromagnetic theory; use of various electronic and mechanical equipment.

PHYS 427 Advanced Modern Physics Laboratory (3) S Prereq.: PHYS 2102 and 2102, 1 hr. lab. Laboratory to accompany PHYS 414. Specialized experiments in quantum mechanics, special relativity, and electromagnetic theory; use of various electronic and mechanical equipment.

PHYS 428 Advanced Modern Physics Laboratory (3) S Prereq.: PHYS 2102 and 2102, 1 hr. lab. Laboratory to accompany PHYS 414. Specialized experiments in quantum mechanics, special relativity, and electromagnetic theory; use of various electronic and mechanical equipment.

PHYS 429 Advanced Modern Physics Laboratory (3) S Prereq.: PHYS 2102 and 2102, 1 hr. lab. Laboratory to accompany PHYS 414. Specialized experiments in quantum mechanics, special relativity, and electromagnetic theory; use of various electronic and mechanical equipment.

PHYS 430 Advanced Modern Physics Laboratory (3) S Prereq.: PHYS 2102 and 2102, 1 hr. lab. Laboratory to accompany PHYS 414. Specialized experiments in quantum mechanics, special relativity, and electromagnetic theory; use of various electronic and mechanical equipment.

PHYS 431 Advanced Modern Physics Laboratory (3) S Prereq.: PHYS 2102 and 2102, 1 hr. lab. Laboratory to accompany PHYS 414. Specialized experiments in quantum mechanics, special relativity, and electromagnetic theory; use of various electronic and mechanical equipment.

PHYS 432 Advanced Modern Physics Laboratory (3) S Prereq.: PHYS 2102 and 2102, 1 hr. lab. Laboratory to accompany PHYS 414. Specialized experiments in quantum mechanics, special relativity, and electromagnetic theory; use of various electronic and mechanical equipment.

PHYS 433 Advanced Modern Physics Laboratory (3) S Prereq.: PHYS 2102 and 2102, 1 hr. lab. Laboratory to accompany PHYS 414. Specialized experiments in quantum mechanics, special relativity, and electromagnetic theory; use of various electronic and mechanical equipment.

PHYS 434 Advanced Modern Physics Laboratory (3) S Prereq.: PHYS 2102 and 2102, 1 hr. lab. Laboratory to accompany PHYS 414. Specialized experiments in quantum mechanics, special relativity, and electromagnetic theory; use of various electronic and mechanical equipment.

PHYS 435 Advanced Modern Physics Laboratory (3) S Prereq.: PHYS 2102 and 2102, 1 hr. lab. Laboratory to accompany PHYS 414. Specialized experiments in quantum mechanics, special relativity, and electromagnetic theory; use of various electronic and mechanical equipment.

PHYS 436 Advanced Modern Physics Laboratory (3) S Prereq.: PHYS 2102 and 2102, 1 hr. lab. Laboratory to accompany PHYS 414. Specialized experiments in quantum mechanics, special relativity, and electromagnetic theory; use of various electronic and mechanical equipment.

PHYS 437 Advanced Modern Physics Laboratory (3) S Prereq.: PHYS 2102 and 2102, 1 hr. lab. Laboratory to accompany PHYS 414. Specialized experiments in quantum mechanics, special relativity, and electromagnetic theory; use of various electronic and mechanical equipment.

PHYS 438 Advanced Modern Physics Laboratory (3) S Prereq.: PHYS 2102 and 2102, 1 hr. lab. Laboratory to accompany PHYS 414. Specialized experiments in quantum mechanics, special relativity, and electromagnetic theory; use of various electronic and mechanical equipment.

PHYS 439 Advanced Modern Physics Laboratory (3) S Prereq.: PHYS 2102 and 2102, 1 hr. lab. Laboratory to accompany PHYS 414. Specialized experiments in quantum mechanics, special relativity, and electromagnetic theory; use of various electronic and mechanical equipment.

PHYS 440 Advanced Modern Physics Laboratory (3) S Prereq.: PHYS 2102 and 2102, 1 hr. lab. Laboratory to accompany PHYS 414. Specialized experiments in quantum mechanics, special relativity, and electromagnetic theory; use of various electronic and mechanical equipment.

PHYS 441 Advanced Modern Physics Laboratory (3) S Prereq.: PHYS 2102 and 2102, 1 hr. lab. Laboratory to accompany PHYS 414. Specialized experiments in quantum mechanics, special relativity, and electromagnetic theory; use of various electronic and mechanical equipment.
PLANT BIOLOGY • PBIO

1202 General Plant Biology (4) Prereq.: BIOL 1201 and 1208. 3 hrs. lecture; 3 hrs. lab. Credit will not be given for both this course and BIOL 1002, 1004. Structure and function of fungi and photosynthetic organisms. 
4215 Genetics of the Eucaryotic Process (4) Prereq.: BIOL 2153 or equivalent; 3 hrs. lecture; 3 hrs. discussion/lab. Also offered as BIOL 4299. Principles of micro-evolution, emphasis on genetic and ecological mechanisms relevant to problem solving. 
4388 Plants in Coastal Environments (3) See OCS 4308. 
4533 Marine Phyology (4) Su only Prereq.: 12 hrs. in biological science, including some plant biology. Four weeks at Gulf Coast Research Laboratory, Ocean Springs, Mississippi.
6055 Flora of Louisiana for Teachers (4) Prereq.: one year of biological sciences. 2 hrs. lecture; 4 hrs. lab. Field service fee. Student projects are required. Identification and natural history of the forest vegetation and plant communities of Louisiana.
7010 Plant Molecular Biology (3) F Prereq.: PBIO 3060, BCH 4093, 4094 or equivalent. See PLHL 7010 and BCH 4093, 4094.
7013 Coevolution (3) See ENTM 7013. 
7014 Plant Stress Physiology (3) See PLHL 7014. 
7025 Advanced Plant Anatomy (3) Prereq.: 4024 or equivalent. Analysis of meristematic activity and growth patterns in vascular plants, with emphasis on basic mechanisms of differentiation and experimental studies of normal growth processes.
7802 Advanced Mycology: Ascomycetes and Deuteromy- cetes (4) See PLHL 7022.
7843 Advanced Plant Taxonomy (4) Prereq.: ZOOL 2153 or AGRI 2072, and PBIO 4041; or equivalent. 3 hrs. lecture; 3 hrs. lab. Fundamentals of natural variation and evolution, taxonomic features of plant variation.
7846 Agrostology (3) Prereq.: PBIO 4041 or equivalent. 1 hr. lecture; 4 hrs. lab. Field service fee. Morphology, classification, ecology, and economic importance of grasses and grass-like plants.
7856 Advanced Mycology: Lower Fungi (4) Prereq.: PBIO 4054 or equivalent. 3 hrs. lecture; 3 hrs. lab. Same as PBIO 7802. Taxonomy, biology, and ecology of fagellated fungi and zygomycetes; ultrastructural morphology, genetics, and pathogenicity; collection, isolation, and identification of fungi from a variety of substrates and habitats. 
7861 Plant Growth and Development (3) See PLHL 7061.
7863 Plant Metabolism (3) See PLHL 7063. 
7865 Transport Processes in Plants (3) Prereq.: PBIO 1202. 2 hrs. lecture; 4 hrs. lab. Field service fee. Phyto- genetic survey of plant form and development among vascular plants from fens and related forms through gymnosperms and angiosperms.
7866 Current Literature in Plant Physiology (3) See PLHL 7068. 
7883 Community Ecology (3) Prereq.: ZOOL 4153 or equivalent. Also offered as ZOOL 7083. Ecological processes of communities; predation, competition, mutualism, disturbance, succession, island biogeography, and diversity.
7903 Plant Population Biology (3) Prereq.: ZOOL 4153 or equivalent. Plant population dynamics, evolutionary systems, life histories, competition, niche theory, genetic interactions among species and competitors, predation, and parasites. 
7911 Ecological Technics (1-8) 3 hrs. lecture. Lab. 3 hrs. lab. Same as PBIO 1003, 1004. Field studies in ecology.
7912 Field Methods in Ecology (4) 1 hr. lecture; 3 hrs. lab. Field service fee. Basic and advanced methods of field ecology. Also offered as PBIO 1002, 1004.
7913 Animal Ecology (4) Prereq.: PBIO 1202. 3 hrs. lecture; 4 hrs. lab. Field service fee. Biotic and abiotic factors affecting animal populations and the impact of these factors on the environment.
7914 Evolutionary Biology (4) Prereq.: PBIO 1202. 2 hrs. lecture; 4 hrs. lab. Field service fee. Genetics, evolution, ecology, distribution, and economic significance of aquatic plants in Louisiana.
7915 Plant Taxonomy (4) Prereq.: PBIO 1202. 2 hrs. lecture; 4 hrs. lab. Field service fee. Phyto- genetic survey of plant form and development among vascular plants from fens and related forms through gymnosperms and angiosperms.
7916 Systematic Botany (4) Prereq.: PBIO 4051 or equivalent. 1 hr. conference; 4 hrs. lab. Individual instructor; student responsible for selecting a plant taxonomy project related to their own research interests.
7917 Biometry (4) Prereq.: one year of biological science. 2 hrs. lecture; 4 hrs. lab. Field service fee. Freshwater and marine algae, including morphology, biology, ecological significance, and taxonomy.
7919 Introductory Mycology (3) 3 hrs. lecture; 3 hrs. lab. Same as PLHL 4054. Field service fee. Developmental morphology and reproductive strategies of fungi; interactions of fungi with plants and animals. 
7920 Flora of Louisiana (4) Prereq.: BIOL 1002 or PBIO 1201 or equivalent, 2 hrs. lecture; 4 hrs. lab. Two Saturday field trips. Major plant groups and communities of Louisiana and the Gulf region; field and laboratory identification, natural history, ecology, environmental issues relating to natural vegetation, and conservation of natural areas. 
7961 Lichenology and Bryology (4) Prereq.: one year of biological science. 2 hrs. lecture; 4 hrs. lab. Field service fee. Lichen and bryophyte morphology, physiology, ecology, and systematic procedure. Also offered as ZOOL 7903.
7962 Eukaryotic Molecular Genetics (3) Prereq.: ZOOL 2153; BCH 4094 recommended. Same as PBIO 4132 and ZOOL 7902. 
7963 Principles of Ecology (4) See ZOOL 4153. 
7967 Plant Microtechnique (3) Prereq.: PBIO 4024 or equivalent. 1 hr. lecture; 4 hrs. lab. Technique and practice in making permanent slides. 
7977 Tropical Agricultural Ecology (1-8) Intensive eight-week field course offered by the Organiza­ tion for Tropical Studies; includes visits to various research sites to study the application of ecological principles to tropical agriculture. 
7979 Tropical Biology: An Ecological Approach (1-8) Eight-week field course at research sites in Costa Rica, conducted by Organizarion for Tropical Studies; also offered as ENTM 7979. Complexities of tropical plants and animals and their interactions.
7980 Research Seminar (1) Pass/fail grading. All plant biology graduate students are required to enroll whenever 7980 is offered. Reports and discussions on topics of current research interest.
7990 Problems and Research (3) 
7995 Independent Study (1-3) V Prereq.: consent of instructor. May be taken for a max. of 5 sem. hrs. of credit. Directed individual readings under the guidance of a graduate faculty member.
8000 Thesis Research (1-12 per sem.) "S"/"U" grading. 
8900 Problems and Research (3-5) For doctoral students only. 
9000 Dissertation Research (1-12 per sem.) "S"/"U" grading. 

PLANT HEALTH • PLHL

2450 Introduction to Pest Management (4) S Prereq.: BIOL 1201, 1208 and PBIO 1202 or equivalent. 3 hrs. lecture; 3 hrs. lab. Also offered as ENTM 2450. Recognition and classification of major pests, insects, pathogens, weeds, and vegetation; anatomy and morphology, life cycles, economic importance, and control measures.
2560 Introductory Plant Pathology (4) F Prereq.: BIOL 1201, 1208 and PBIO 1202; or equivalent. 3 hrs. lecture; 2 hrs. lab. Also offered as PBIO 2560. Life processes of plants. 
2660 Undergraduate Research in Plant Pathology (1-3) V Prereq.: PBIO 2560 and consent of instructor. May not be repeated for credit. Research experience for students contemplating graduate study in plant pathology.
2660 Undergraduate Research in Crop Physiology and Weed Science (1-3) V Prereq.: PLHL 3000 or equivalent and consent of instructor. May be taken for a max. of 6 sem. hrs. of credit. Research experience for students contemplating graduate study in crop physiology or weed science.
4000 General Plant Pathology (3) S Prereq.: BIOL 1201, 1208 and PBIO 1202; or equivalent. 2 hrs. lecture; 3 hrs. lab. Nature and cause of disease in plants; relation of environment and host-parasite interactions to development of disease symptoms caused by plant pathogenic fungi, bacteria, viruses, mycoplasmas, and nematodes; abiotic causes of disease; methods of disease control; diseases affecting Louisiana crops and ornamentals.
4070 Plant Disease Management and Control (3) F Prereq.: PLHL 4000 and either CHEM 2600 or 2261; 2 hrs. lecture; 2 hrs. demonstration/lab. Plant disease management, disease control using cultural practices, disease resistance, disease resistance, biological control, legislation, therapy, pesticides; identity, properties, chemistry, mode of action, toxicity, and application of fungicides, bactericides, and nematicides; evaluation of chemicals for plant disease control.
4012 Diseases of Horticultural Crops (3) F-O Prereq.: PLHL 4000, 2 hrs. lecture; 3 hrs. lab. Diseases affecting the major horticultural crops; their identification, economic importance, and control.
4013 Diseases of Agronomic Crops (3) S-B Prereq.: PLHL 4000. 2 hrs. lecture; 3 hrs. lab. Diseases affecting the major agronomic crops; their identification, economic importance, and control.
4018 Forest Insects and Diseases (4) F see ENTM 4018.
4054 Introductory Mycology (4) 3 hrs. lecture; 5 hrs. lab. Also offered as PBIO 4054. Field service fee.
4070 Principles of Weed Control (4) F Prereq.: PLHL 3060 or equivalent. 3 hrs. lecture; 2 hrs. lab. Weed control in agricultural crops; weed ecology, mechanisms of herbicidal action and their characteristics of important herbicides.
5000 Phytopathology (4) S Prereq.: PLHL 4000, 2 hrs. lecture; 4 hrs. lab. Laboratory, identification, and control of plant parasitic nematodes.
7903 Disease Diagnosis and Control Practices (3) S-O Prereq.: consent of instructor. 3 hrs. lecture; 4 hrs. lab. Prereq.: 2 yrs. P.H.D. students majoring or minoring in plant pathology or M.S. students majoring in plant pathology. Diagnosis and control of plant diseases utilizing specimens submitted to the LSU Plant Disease Clinic.
7910 Plant Molecular Biology (3) Prereq.: PBIO 3060, BCH 4093 and 4094; or equivalent. Also offered as BCH 4094.
2051.4012
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civil
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principles,
4014
Budgetary Process and Policy Making (3) Prereq.: POLI 2051 or equivalent. Budgeting by public agencies; impact of political action and pressure groups on budgetary policies at the national, state, and local levels of government.
4015
4018
Urban Politics and Policy Making (3 F Prereq.: POLI 2051 or equivalent. Political problems in urban governance: the political environment of American cities, private sources of power, political machines and reform, crime and violence, service delivery, metropolitan fragmentation, and the consequences of growth and decay; public policy approaches to complex urban problems.
4019
Intergovernmental Relations and Policy Making (3 S Prereq.: POLI 2051 or equivalent. Political problems in intergovernmental relationships: federalism and the states, intergovernmental cooperation and conflict, constitutional federalism; expanding role of states and localities.
4020
American Constitutional Law (3 F Prereq.: POLI 2051 or equivalent. Law of the Constitution and place of state Constitutions in the American state system; separation of powers, judicial review, federalism, and federal powers.
4021
The American Constitution and Civil Liberties (3 S Prereq.: POLI 2051 or equivalent. Political relevance of major federal constitutional limitations; property rights; First Amendment freedoms; rights of criminals and ethnic minorities.
4022
Jurisprudence (3 S Prereq.: POLI 2051 or equivalent. Legal philosophies of natural law, positivism, idealism, sociojuridical jurisprudence, and legal realism; relationships of law, morals, and political order.
4023
Judicial Politics (3 F Prereq.: POLI 2051. Political role of U.S. state and federal courts; organization, staffing, financing, judicial policy making; public perception of the judicial process.
4030
Political Attitudes and Public Opinion (3 V Beliefs and attitudes among the mass public; emphasis on attitude formation and change.
4031
Political Parties in the United States (3 U S Prereq.: POLI 2051 or equivalent. Political relevance of major federal constitutional limitations; property rights; First Amendment freedoms; rights of criminals and ethnic minorities.
4032
Pressure Groups and Public Policy (3 V Interest group politics; effect of voluntary organizations on public behavior.
4033
Religion in Politics (3 V Also offered as REL 4033. Analysis of religion as a political force; religion as a shaping force in political culture, a force for stability and change, and a determinant of political behavior and public policy.
4034
Political Participation (3 V Voting behavior, conventional participation, and political protest and violence; political behavior and public policy.
4035
The Legislative Process (3 F Prereq.: POLI 2051 or equivalent. Legislative politics; emphasis on the U.S. Congress; effect of party, constituency, and legislative institutions on legislative behavior and public policy; role of Congress in the American political system.
4036
The American Presidency (3 V Prereq.: POLI 2051 or equivalent. The structure of the American political system; emphasis on process of presidential selection, evolving role of the president, politics of the executive apparatus and the presidency, and presidential interaction with other political institutions and actors.
4037
Political Decision Making (3 V Decision making processes at the subnational, national, and international level; evaluation and detection of decisions; role of situation and context.
4038
Blacks and the American Political System (3 V Prereq.: POLI 2051. Interaction of blacks with the American political system; political resources available to blacks; responses of national institutions and leaders to black aspirations.
4041
International Law (3 V Prereq.: POLI 2057 or equivalent. Development of international law; law of peace, war, and neutrality; treaty-making; international war crimes, law enforcement, state responsibility, and diplomatic immunities under the United Nations.
4042
4043
American Foreign Policy (3 F) "National interest" as a concept; consideration of American foreign policy from the beginning to the present; importance of the constitutional framework; presidential and congressional leadership; U.S. foreign policy; balance of power; changing environment and global response.
4044
The Contemporary International System (3 V Prereq.: POLI 2057 or equivalent. Developments and trends in international relations since World War II; classical and modern versions of the balance of power; bipolarity, multipolarity, and other elements of systems theory; concept of deterrence and game theory; decision-making theory; integration theory; conflict and conflict-resolution theory.
4045
American National Security (3 F Prereq.: POLI 2057 or equivalent. National security and its role in implementation of American foreign policy; issues such as evolution of U.S. strategic doctrine, national security establishment (NSC, CIA, counter-insurgency strategies, and nonmilitary elements of the balance of power; crisis simulation exercise.
4046
Politics of International Economic Relations (3 Prereq.: POLI 2057 or equivalent. Theories of international interdependence, dependence, and integration; politics of decision making on protectionism and international finance; role of multinational corporations in world political economy; South-North debate; economic issues and national security.
4046
Comparative Politics of Developing Areas (3 V Politics of development confronted by contemporary states and societies of the Third World; emphasis on role of ethnic pluralism, political parties, bureaucracies, and the military in politics.
4047
Latin American Governments and Politics (3 F Governmental and political processes of Latin America; their contributions to modern government.
4048
Inter-American Relations (3 S United States-Latin American relations; political, economic, and cultural relations among the Latin American states.
4049
The Politics of Asia (3 F Governments and politics of modern Asia, with a focus on China; contemporary nationalism, political development, revolution, and impact of communism, democracy, and capitalism on Asian states.
4050
Democratic Political Systems of Northern Europe (3 S Comparative analysis of the structures, functions, culture, socialization, and political processes of Northern European political systems: Great Britain, West Germany, the Scandinavians, and Benelux countries.
4050
Comparative Politics of Systems of Southern Europe (3 S Comparative analysis of the structures, functions, culture, socialization, and political processes of Southern European political systems: France, Spain, Portugal.
4050
Russian and Central European Politics and Government (3 F Contemporary political institutions and policies of Russia, Ukraine, and other regional states of the Belarus, Caucasus, and Central Asian area; influence of great powers; internal forces, such as culture, ideology, and social structure; political, economic, social and economic problems and policies.
4051
Foreign Policies of the Post-Soviet States (3 S Foreign policies of the post-Soviet states in terms of ideology, traditional Russian national interests, and Russia's interests as a world power.
4052
Government and Politics of East Central Europe (3 V For students with intermediate level of Russian. Government and politics of Communist regimes; comparison of their common problems and methods; role of these party-states within the Communist system.
4053
Contemporary Communist Movement (3 V Ideologies and operations of major socialist and communist movements; variation from traditional Marxist themes and the establishment of new parties and ideas in Bohemian movements of the non-Western world; postcommunism, Maoism, Castroism, African socialism, and national-liberation movements.
4054
The European Community (3 V The political, social, legal, and economic unification of Europe.
4057
The Middle East (3 S Governments and politics; major trends since independence; Arab-Israeli dispute, intra-Arab relations, and role of the region in global affairs.
4200 Quality Assurance and Control (3) Prereq.: QBA 2000 or equivalent. Credit will not be given for both this course and IE 4453. Principles of quality assurance and control; design and application of control charts and acceptance sampling plans for attributes and variables; methods for design quality assurance systems of reliability.


4502 Management Systems Simulation II (3) Prereq.: QBA 3000 and 4501. Advanced computer simulation; design for using simulation models to solve managerial problems; decision making, simulation of decision models; variance reduction techniques; SLAM simulation language.

4511 Industrial Simulation (3) Prereq.: QBA 4020. See IE 4511.

5610 Statistical Methods for Public Administration (3) Prereq.: college algebra, 2 hrs. lecture; 2 hrs. lab. Open only to students in the M.P.A. program. Also offered as PADM 5610.

5614 Managerial Statistics (3) Prereq.: QBA 3002 or equivalent; and knowledge of a programming language. Open only to students in the M.P.A. program. Statistical description; single and multiple variable descriptive measures, index numbers, time series analysis; review and extension of probability theory; probability distributions; standard design of normal, binomial, Poisson, and hypergeometric; sampling distributions; estimation of means, proportions, and totals; applications in management.

6700 Statistical Theory (3) Prereq.: QBA 4000 or equivalent; and consent of instructor. Theoretical basis for topics in statistical inference including tests of hypotheses, experimental design, regression analysis, general linear models, nonparametric statistics, sequential tests of hypotheses, and complex sample designs.

6709 Simulation of Stochastic Processes (3) Prereq.: QBA 4000 or equivalent; and consent of instructor. Introduction to simulation of QBA 4000, theoretical basis for topics in statistical inference including tests of hypotheses, experimental design, regression analysis, general linear models, nonparametric statistics, sequential tests of hypotheses, and complex sample designs.

7600 Statistical Theory (3) Prereq.: QBA 4000 or equivalent; and consent of instructor. Introduction to simulation of QBA 4000, theoretical basis for topics in statistical inference including tests of hypotheses, experimental design, regression analysis, general linear models, nonparametric statistics, sequential tests of hypotheses, and complex sample designs.

7200 Total Quality Management in Business Enterprises (3) Prereq.: QBA 4200 or 7268; or equivalent. Introduction to total quality management concepts, data analysis tools, statistical process control techniques, Taguchi methods in robust designs; internal audits and vendor selection, quality function deployment, organizational boundary issues, team building, quality information systems, and strategies for continuous improvement.

7268 Operations Management (3) Prereq.: QBA 5014 or equivalent. Problems and decision processes of operations management: design, resource allocation, activity planning, systems control, process and facility planning, quality control, scheduling, production and inventory control, and planning and control of aggregate output.

7272 Operations Strategy (3) Prereq.: QBA 7268. Capabilities, structures, processes, and competencies; process/technologies, aggregate capacity, vertical integration, operations infrastructure, organizational structure, and jobs; case analyses drawn from service and manufacturing industries.

7275 Advanced Operations Management (3) Prereq.: QBA 7268. May be taken for a max. of 9 hrs. of credit when topics vary. Topics such as material requirements planning, inventory control, scheduling, facilities location and layout, quality control, job design, industrial design, network analysis; emphasis on development of techniques.

7501 Management Information Systems (3) Prereq.: QBA 2100 or equivalent; or knowledge of a programming language. Contemporary topics in management information systems, including data base processing, information processing; a survey of information system design; file structures and information processing; rudiments of database management systems; and database design. Staff.

7502 Decision Support Systems and Expert Systems (3) Prereq.: QBA 7501 or equivalent. Management decision making; role of decision support systems (DSS); DSS architecture, design and implementation; ES shells; relationships between DSS, ES, and expert systems; DSS/ES integration; technology for DSS/ES and applications.

7593 Organization and Management of Business Data (3) Prereq.: QBA 7501 or equivalent. Data structures; file processing; user interface and file design; database models, design, and administration issues (currency control, distributed versus centralized data bases, DBMS selection, pricing data resources); emphasis on business applications.

7512 Artificial Intelligence for Business (3) Prereq.: QBA 7501 or equivalent. Artificial intelligence for business enterprises; learning systems; natural language interfaces in management information systems; neural networks in decision making; AI and organization theory.

7525 Analysis and Design of Computer-Based Information Systems (3) Structured analysis and design techniques for implementing various computer-based information systems; transaction processing systems; decision support systems.

7900 Contemporary Issues in Statistics and Management Science (3) Prereq.: advanced PhD. standing or consent of instructor. May be taken for a max. of 9 hrs. of credit when topics vary. Philosophical foundations and contemporary issues in management information systems.

8000 Thesis Research (1-12 per sem.) "S/U" grading.

8900 Predissertation Research (1-9) May be repeated for credit.

9008 Dissertation Research (1-12 per sem.) "S/U" grading.

RELIGIOUS STUDIES · REL

1003 Introduction to Religion (3) Ways of being religious; nature of religious experience; nature and function of religious scripture, stories, beliefs, and rituals; role of religions in social and individual life.

1004 Old Testament (3) Scholarly study of the Hebrew Bible (Old Testament) against the background of the history and religious life of ancient Israel.


1006 HONORS: New Testament (3) Same as REL 1005, with special honors emphasis for qualified students.

1015 HONORS: Introduction to Religion (3) Same as REL 1003, with special honors emphasis for qualified students.

1101, 1103 Biblical Hebrew (3, 3) REL 1101 is a prerequisite for REL 1103. Grammar, syntax, and vocabulary; readings of narrative portions of the Old Testament.

1201 Theology of the Old Testament (3) Interpretation of Old Testament materials; religious and cultural setting.

2005 Jesus in History and Tradition (3) Search for the historical Jesus; Biblical and non-Biblical sources and influential theories about Jesus.

2027 Eastern Religions (3) Doctrines, practices, and philosophical import of major religions of Southern and Eastern Asia.

2028 Philosophy of Religion (3) Same as PHIL 2028. Meaning of religion as a pervasive phenomenon in human society; faith and reason, nature of divinity, arguments for and against God's existence, religious knowledge and experience, morality and cult, the problem of evil.

2033 Doctrines of Religion (3) Doctrines and practices of the three major religions of the Western world; teachings of the Hebrew Bible, New Testament, and Islamic religion.

2101 Judaism (3) Jewish history, faith, and worship; Judaism's past and present relations with Christianity and Islam.

2130 The Religion of Islam (3) Islam and the various communities and beliefs of Muslims; the prophet Muhammad, the Quran (Koran), excerpts from the leading Islamic theologians, Islamic theories of law and politics, relations to other religions, and the role of Islam.

3201 Fundamentalists, Evangelicals, and Charismatics (3) The roots, guiding convictions, methods of biblical interpretation, and mass media activity of these religions in the United States.

3295 Independent Study/Tutorial (1) Prereq.: 3 sem. hrs. of religious studies courses and at least a 2.50 gpa. May
be taken for a max. of 3 hrs. of credit when topics vary. Readings, conferences, and reports under faculty direction.

3004 Archæology of the Bible (2) Also offered as ANTH 3004. Major figures and discoveries influencing the historical study of the Bible; emphasis on results of excavation and discovery of written documents and inscriptions.

3005 Paul and Early Christianity (3) Paul's writings in historical context; assessment of his place in the development of the church; significant themes in his theology.

3010 Special Topics in Religious Studies (3) May be taken for a max. of 6 hrs. of credit when topics vary.

3020 Mysticism (3) Mystical religious experience in eastern and western religion; some attention to shamanism and the occult; mystical grounds for belief in God.

3051 Apocalypses: Then and Now (3) The Book of Revelation in its historical and social setting; and in relation to the apocalyptic literature of early Judaism and contemporary culture.

3101 American Judaism (3) American Jewish history; Judaism as a cultural entity and religious faith.

3102 American Catholic History (3) Roman Catholicism in its North American context: the European heritage; immigration; political, intellectual, and devotional life.

3104 Ancient Hebrew Prophets (3) Prophetic movement in ancient Israel; different modern interpretations of prophecy.

3124 The Literature of the English Bible (3) Also offered as ENGL 3124.

3201 Psychological Theories of Religion (3) Also offered as PSYC 3201. Use of various psychological theories to explain religious belief and practice, conversion experiences, ritual acts, and altered states of mind.

3224 Literature and Religion: An Overview (3) See ENGL 3226.

3300 Women and Religion (3) Role of women in the religions of the world.

3600 Hinduism (3) A survey of Hinduism from its origins to Gandhi.

4005 History of the Christian Church: 50-450 (3) Also offered as HIST 4005. Christianity's rise to prominence; its struggle against paganism; emphasis on institutional history of the church.

4006 History of the Christian Church: 450-1539 (3) Also offered as HIST 4006. Medieval Latin Christianity; emphasis on central role of the church in culture, politics, and social organization.

4011 The Age of Reformation (3) See HIST 4011.

4012 History of Modern Christian Thought (3) Prereq.: one religious studies course. Also offered as HIST 4012. Major figures in the history of Christian thought from the Reformation through the 16th century.

4031 Comparative Religions (3) See ANTH 4031.

4033 Religion in Politics (3) See POLI 4033.

4051 History of Early Christianity (3) Exploration of the Gnostic religion as a complementary perspective to its origins and the responses of early Christian leaders.

4095 The Middle East to 1800 (3) See HIST 4095.

4096 The Modern Middle East (3) See HIST 4096.

4125 History of Ancient Israel (3) Also offered at HIST 4125. Israelite history from its beginnings to the beginning of the Christian era; readings from biblical and other ancient Near Eastern texts.

4161 History of Religion in the United States (3) See HIST 4161.

4191 Religions of China and Japan (3) See HIST 4191.

4227 Contemporary Christian Thought (3) Major theologians and theological movements of the 20th century.

4228 Major Religious Thinkers (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary. Concentrated study of the work of a religious thinker.

4236 Studies in Literature and Religion (3) See ENGL 4236.

4300 Theories of Myth (3) Theories from anthropology, sociology, psychology, and history of religion.

4350 Religious Ethics (3) Ethical issues derived from religious experience.

4500 Seminar in Biblical Studies (3) Prereq.: one course in Biblical studies. May be taken for a max. of 6 hrs. of credit when topics vary.

4800 Buddhism (3) Fundamental teachings from the Buddha to Zen; emphasis on Indian, Tibetan, and South and East Asian traditions.

4928 Augustine, Anselm, and Aquinas (3) See PHIL 4928.

4929 Analytical Theology (3) See PHIL 4929.

4990 Independent Reading and Research (3) Open to advanced students with prior approval of faculty member who will direct the course. Student is responsible for selecting a topic and obtaining and gaining approval of faculty member to direct the course.

7990 Independent Study (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary.

RUSSIAN - RUSS

1001 Elementary Russian (5) Pronunciation, oral-aural repetition, beginning vocabulary.

1020 Russian for Reading Knowledge (5) Specialized course intended to satisfy departmental foreign language reading requirement for graduate students, but carrying no graduate credit. Undergraduates may enroll on pass/fail basis only. Does not count toward satisfying foreign language requirement for undergraduates, although hours may count toward baccalaureate. Credit will not be given for both this course and introductory Russian courses.

2051 Intermediate Russian (5) Prereq.: RUSS 1001 or equivalent. Pronunciation, oral-aural practice, completion of fundamental vocabulary.

2053 Intermediate Russian (5) Prereq.: RUSS 2051 or equivalent. Continued oral-aural practice; readings and translation of Russian text; vocabulary building.

2055 Russian Reading in Russian Literature and Russian Culture; readings in contemporary Russian materials.

2075 Introduction to Russian Culture and Civilization (3) Taught in English; knowledge of Russian not required. Also offered as HIST 2135. Geography, history, religion, literature, music, art, architecture, and scientific and technological achievements of Russia.

3061 Advanced Russian Grammar (3) Prereq.: RUSS 2053 or equivalent. Advanced Russian grammar. Prereq.: RUSS 3061 or equivalent. Drill in oral and written original composition; attention to style, syntax, idioms, and inflections.

3071 Survey of Russian Literature (3) Prereq.: RUSS 2055 or equivalent. Survey of Russian literature from the beginning to the late 19th century.

3072 Survey of Russian Literature (3) Prereq.: RUSS 2055 or equivalent. Russian literature from the late 19th century to the present.

3401 The Fairy Tale (3) Taught in English; knowledge of Russian not required. Structure and substance of the traditional fairy tale; examples from German and Russian sources.

4002 Russian Language: Phonetics and Phonemics (3) Also offered as LING 4002. Phonological elements of Russian; the evolution of sounds and their distribution; syllable structure; phonological rules.

4038 Russian Literature: Novel (3) The Russian novel from its beginnings to the end of the 19th century.

4031 Russian Literature: Novel (3) Special works of Turgenev, Dostoevsky, Tolstoy.

4061 Soviet Literature (3) Russian literature from 1917 to the present.

4081 Russian Literature in Translation: 19th Century (3) Knowledge of Russian not required. Masterpieces of 19th century Russian literature, including the works of Turgenev, Dostoevsky, and Chekhov.


4095 Independent Research (1-3) May be taken for a max. of 6 sem. hrs. of credit. Readings in Russian literature directed by a senior faculty member.

7093 Seminar in Russian Literature (3) May be taken for a max. of 15 hrs. of credit when topics vary.

SOCIAL WORK - SW

Additional information concerning the School of Social Work is available from the School of Social Work Bulletin and the Graduate Bulletin.

2000 Introduction to Social Work (3) The profession of social work; history, description of programs in contemporary American society; role of the social worker in meeting social needs.

2009 Perspectives in Contemporary Social Welfare (3) Prereq.: SW 2000 or equivalent. Changing concepts of social welfare; issues, policies, and proposals related to meeting economic and social needs.

2002 The Child and the Community (3) Common and particular needs of children in the community; social welfare services developed by communities for care and training of children.

2001 Skills in Working with People (3) Basic skills in working with people; understanding attitudes; use of community resources.

2007 Juvenile Delinquency (3) Nature and extent; sociological and psychological factors in causation and treatment of delinquent children; how communities are organized to help troubled youth and to prevent inception and spread of juvenile problems.

2008 Workshop: Services to Families and Children in Trouble (3) Helping families and children meet needs and problems; development of group income, separation, remarried married parents, mental or physical illness, delinquency, and disturbed family relationships; methods for strengthening family life.

2001 Community Services and the Aged (3) The aged population and their needs; available resources and services in the community; assisting the aged in obtaining services; implications of the aging problem.

2000 Modern India: Society and Culture (3) Also offered as GEOG 4000. Interdisciplinary analysis of political-cultural issues of contemporary pan-Indian society.

2001 Penology (3) Development of the penitentiary in society; punishment versus rehabilitation; problems in operating adult prison units.

2005 Groups and Social Work (3) Use of groups in social work: groups of a social, therapeutic, educational, decision making processes and worker roles.

2004 The Citizen and Social Change (3) Principles of citizen participation; skills necessary to mobilize community groups toward solving community social problems.


2020 Computers, Crime, and Justice (3) Historical trends, current research issues, emerging technological developments, and their impact on law enforcement and on the juvenile justice system.

2005 Correctional Administration, Management, and Supervision (3) Current issues in the administration and supervision of American and international corrections organizations; role of policy in correctional administration; effects of organizational theory and human resource management practices; personnel supervision and training; program planning; effects of court intervention; current health care issues, including AIDS and drugs; privatization.

2008 Special Topics in Applied Correctional Policy (3) May be taken for a max. of 6 hrs. of credit when topics vary.

2009 Corrections Internship (3) Prereq.: 2.50 gpa, 60 hrs. of course work, 3 hrs. from SW 4020, 4021, 4080, or consent of instructor. Pass-fail grading. Field work/clinical experience. May be taken for a max. of 6 hrs. of credit.

5011 Human Behavior and the Social Environment (3) Behavioral science base of social work practice; interrelations of biological, psychological, social, and cultural determinants of functional human behavior.

5012 Social Work Practice I (3) Introduction to social work theory, principles and intervention skills common to social casework and group work; psychosocial perspectives in intervention.

5013 History and Philosophy of Social Work (3) Evolution of social work; major historical figures and their contributions within the context of socioeconomic and cultural changes.
5104 Human Diversity and Oppression (3) Social effects of stigma and prejudice, racism, sexism, and classism; associated with human diversity; implications of social oppression and structural pluralism for social work.

5105 Maladaptive Process (3) Determinants and modifiability of maladaptive patterns of individuals, families, small groups; and organizational functioning.

5206 Social Work Research (3) Standards and methods of scientific inquiry; application of social work research; concept formulation; research design; sources, collection, and presentation of data.

5210 Social Welfare Policy in a Changing Society (3) Nature of social policy; policy formulation and factors influencing social objectives within the framework of goals and values of the social work profession.

5324 Social Work Practice II (3) Techniques of working, with planning action groups; problem identification, priority assignments, intervention channels, intervention activities; structure analysis, and structure synthesis used to ameliorate social problems in larger populations.

5505 Generic Field Internship I (3) Pass-fail grading. $100 internship fee. Internship in an approved agency.

5506 Generic Field Internship II (3) Pass-fail grading. $100 internship fee. Continuation of SW 5505.


7307 Direct Practice with Children and Adolescents (3) Maladaptive patterns of behavior in children and adolescents; intervention strategies with children, parents, families, and communities; and participation in an approved setting related to student’s area of concentration.

7308 Social Work with Groups: Theory and Practice (3) Dynamics of social work with groups; members’ behavior and corresponding worker roles and responses.

7309 Advanced Methods of Group Treatment (3) Diagnostic and treatment procedures used in integrative group therapy.

7353 Program and Practice Evaluation (3) Prereq.: SW 5206. Types of program designs, and instruments used in social work; research processes from specification to hypotheses and collection of data.

7399 Social Work Practice with Families and Children (3) Normal and maladaptive patterns in families and children; diagnostic classifications and etiologies of family and childhood disorders; social work practice methods with families, children, and adolescents.

7401 Social Policy for Families and Children (3) Historical and current issues in policy, management, research, and direct practice related to the families’ and children’s systems.

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 society.

7403 Social Work with the Elderly (3) Demographic characteristics of the aging population; aging as a developmental process; biological, psychological, and socialization aspects; impact of legislative and social service systems.

7404 Social Work Practice in Schools (3) Implementation of social work values, purposes, and methods in a school setting.

7405 Marital and Family Treatment in Social Work (3) Identification and modification of dysfunctional transactional patterns; facilitating communication; improving the quality of marriage and family relations.

7406 Child/Family II (3) Legal and administrative functions in working with children and families.

7408 Social Care Policy (3) Methods of social work practice in health care; relevant issues; adaptation of community organization, administration, and research to the environment of the health care field.

7409 Law and Social Work (3) Relationship of law to social work; statutes, cases, and doctrinal materials in personal and family breakdown; programs for income maintenance; crisis cases concerning criminal justice, juvenile courts, and the rights of the confined.

7410 Comparative Social Welfare (3) Comparative analysis of international social welfare systems; differential cross-national social services; similarities and differences among nations.

7411 Social Work Practice in Mental Health (3) Evaluation and direct, indirect mental health services; role of direct and indirect social work in the mental health delivery system.

7412 Social Work in Medical Care (3) Nature of social work practice in the field of medical care; medical care systems and consumer problems; role of medical social workers.

7413 Social Policy and Mental Health (3) Foundations of public social policy and the social structure of the mental health service; current issues and trends.

7414 Integrative Seminar in Mental Health (3) To be taken in the final semester of program of study. Pass-fail grading. Selected topics in mental health and social work; integration of course elements related to mental health and other areas of social work intervention.

7415 Child/Family I (3) Theories and skills of assessment and compliance with children and families.

7426 Macrostrategies in Social Work Practice (3) Community intervention methods focusing on administrative, legislative, and political aspects of planned social change; formal and informal political process; intervention through use of expertise, lobbying, public opinion, and media.

7435 Data Analysis and Research Management (3) Data, collection, analysis, and general research management; research strategies and analytical techniques; design and execution of selected research instruments; manual and computer processing of data.

7455 Management in Human Services (3) Management used in the effective provision of social services; techniques of modern management; interdisciplinary and practical applications of management; research in management: development of critical attitudes and management skills.

7665 Advanced Field Internship I (3) Pass-fail grading. $100 internship fee. Supervised internship in an approved setting related to student’s area of concentration.

7666 Advanced Field Internship II (3) Pass-fail grading. $100 internship fee. Supervised internship in an approved setting related to student’s area of concentration.

7710 Task-Oriented Group Interaction in Social Work (3) Interaction of small groups in social work practice; emphasis on understanding barriers to goal-directed interaction and on helping groups accomplish tasks.

7801 Seminar: Family Violence (3) Topics in family violence; their relevance to social work practice; program development and interventional approaches and issues.

7803 Grant and Proposal Writing for Human Service Organizations (3) Methods of accessing federal, state, and private funds; developing grant and contract proposals.

7884 Seminar: Substance Abuse and Chemical Dependency (3) Selected topics in substance abuse and chemical dependency; their relevance to social work practice.

7866 Policy Issues in Social Welfare (3) Special Topics in Social Work (3) May be taken for a max. of 12 sem. hrs. of credit. Selected topics in the theory and practice of social work.

7905 Independent Reading and Research in Social Work Practice (3) Prereq.: consent of instructor.

9706 Independent Reading and Research in Social Welfare Policy (3) Public Policies and the Aging (3) Public policies which affect quality of life for the elderly; Older American’s Act, Social Security Act, Medicare and Medicaid policies.

7907 Social Development: International Perspectives (3) Concepts of social development; extent of social underdevelopment in the modern world; theories and normative perspectives; social and national planning.

7909 Integrative Seminar in Families and Children (3) To be taken in the final semester of program of study. Pass-fail grading. Selected topics in families, children, and social work; integration of course elements related to families, children and other areas of social work intervention.

7999 Research Project: Nonthesis Option (3) Prereq.: completion of M.S.W. foundation courses. Pass-fail grading. Research project, subject of knowledge paper, or position paper.

8000 Thesis Research (1-12 sem.) "S"/"U" grading.

SOCIETY • SOCIOLOGY

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 and political 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 which are numbered 8000 and 9000, respectively).

1001 Human Societies (3) Comparative and historical analysis of human societies; major patterns of social change.

1005 Social Life in the United States (3) Open only to international students. An orientation course on people, culture, social institutions, and processes.

2001 Introductory Sociology (3) Major subject areas and principles of sociology.

2010 Selected Topics in Sociology (3) May be taken for a max. of 6 hrs. of credit when topics vary.

2201 Introduction to Statistical Analysis (4) Prereq.: MATH 1020/1021 or equivalent. 3 hrs. lecture; 2 hrs. lab. Descriptive statistics; inferential statistical methods including confidence interval estimation and hypothesis testing for one and two populations, differences, and correlation of data in analysis of variance; simple linear regression and correlation; analysis of categorical data.

2211 Methods of Sociological Research (3) Prereq.: SOCL 2001 and 2101; or equivalent. Scientific methods and their application in sociological research, including problem selection, research design, measurement, data collection, and evaluation.

2351 Rural Sociology (3) Not open to students who have credit for or are enrolled in SOCL 4351. Sociological concepts related to rural life; social bases of human behavior, social inequality, social change, and social mobility.

2411 Industrial Sociology (3) Social organization in industry; relation of industry to community and society.

2501 Current Social Problems (3) Sociological analysis of major social problems in contemporary society; focus on both the institutional and personal causes and consequences.

2505 Marriage and Family Relationships (3) May not count toward satisfying the 31-hour requirement for a major in sociology. Current issues and trends in marriage and family relationships.

2721 Thesis (3) Comparative study of urban communities and their problems.

2741 Sociological Perspectives on the South (3) Prereq.: SOCL 2001, or equivalent. Society and culture in the South; Southern societies; regionalism and regional conflict.

3101 Sociological Theory (3) Prereq.: SOCL 2001 or equivalent. Dominant theorists and schools of thought in sociology.

3701 Sociology of the Criminal Justice System (3) Prereq.: SOCL 1001 or 2001 or equivalent. The criminal justice system and its organizational components.

3501 Sociology of Deviance (3) Prereq.: SOCL 2001 or equivalent. Sociological analysis of deviant behavior; supporting research on mental illness, crime, sexual deviance, drug abuse, and suicide.

3690 Poverty in the United States (3) Prereq.: SOCL 2001 or 2501 or equivalent. Definition of poverty, its meaning, measurement, causes, correlates, and consequences; strategies for alleviation and elimination.

3691 Social Interaction (3) Prereq.: SOCL 2001 or PSYC 2000 or equivalent. Human behavior as social interaction.

3685 Collective Behavior (3) Prereq.: SOCL 2001 or equivalent. Sociological analysis of noninstitutionalized group behavior; crowds, publics, panics, fads, hostile outbursts, and social movements.

3900 Sociology Internship I (3-3) Prereq.: 75 hours of course work completed, 2.5000 overall gpa; written consent of advisor and program director; must be taken for a max. of 3 hrs. of credit. Faculty supervised field study/research with an agency or organization whose mission is related 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. of credit. Student registers with a faculty member before registering for the course and the area of reading or research. Topic must not substitute for regularly offered courses unless reading goes beyond a standard course offering.

3905 HONORS: Senior Thesis Research (3) Prereq.: SOCL 3901; open to seniors who are candidates for a bachelor’s degree with honors in the sociology major. Supervised research and preparation of a senior thesis.

3911 Research Practicum in Rural Sociology (1-3) Prereq.: SOCL 2211, 2351, and 3101. May be taken for a
270 Spanish

4602 Periods, American literature: Beginnings to 19th Century (3) V With consent of department, may be taken for a max. of 6 hrs. of credit when topics vary.

4764 Topics in Spanish American Literature: 19th Century to the Present (3) V With consent of department, may be taken for a max. of 12 hrs. of credit when topics vary.

4750 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.

4750 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.

4791 Comparative Studies in Hispanic Literature (3) V With consent of department, may be taken for a max. of 6 hrs. of credit when topics vary.

4780 Special Topics in Hispanic Linguistics (3) When topics vary, may be taken for a max. of 6 hrs. of credit for the major's requirement. Topics to be announced.

4782 Spanish Language Variation (3) May be taken for a max. of 6 sem. hrs. with consent of department. Socio­linguistic perspectives and methodology in the analysis of Spanish language variation.

4783 Spanish Language Acquisition (3) V Theories and discourse perspectives in second language acquisition.

4784 Spanish, mobile, in contact with English language use, variation, and change; social and individual bilingualism.

4795 Research in Hispanic Linguistics (3) May be taken for a max. of 3 sem. hrs. with consent of department. Scholarly investigation guided by departmental graduate faculty.

4798 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.

8000 Thesis Research (1-12 per sem.) "S/”U" grading.

SPEECH COMMUNICATION • SPCM

1061 Speech Fundamentals (3) Credit will not be given for both this course and SPCM 2060. An honors course, SPCM 1061H. Prereq.: SPAN 1060, 1061, 1062, or Span 1065 (students of ACT scores that qualify for ENGL 1003 and students with 3.50 cumulative gpa).

2019 Interpersonal Communication (3) Theories and research in human communication; one-to-one interactions.

2012 Introduction to Film (3) Nature and function of film as a mode of communication; film theory and criticism; historical and technical development of the film industry; selected films screened and studied.

2040 Introduction to Performing Literature (3) The study of literature through performance; reading, analysis, and performance of poetry, drama.

2060 Public Speaking (3) Credit will not be given for both this course and SPCM 1061. Theory and skills needed by the effective communicator and critical examination of: speech; analysis of other speakers and practice in speaking.

2061 Speech Communication for Business and the Professions (3) For students in the professional colleges, particularly the College of Business Administration. Speech communication used in business and professional organizations; proposal presentations, group decision making, parliamentary procedure, and interviewing.

2063 Argumentation and Debate (3) Prereq.: SPCM 1060 or 2061. Principles of argumentation and debate; analysis, briefing, evidence, reasoning, and refutation; debate as a means of developing public speaking.

2064 Small Group Communication (3) Aspects of group leadership; group discussion and the problems of communication in human relations.

2200 Practicum in Speech Communication (1) Prereq.: consent of instructor. May be taken for a max. of 3 sem. hrs.; however, no more than a total of 3 sem. hrs. in SPCM 2200 and SPCM 4200 may be taken for undergraduate credit. Not by credit with consent of department. May be taken for a max. of 6 hrs. of credit when topics vary.

2720 Radio Production (3) $3 2 hrs. lecture; 3 hrs. lab. See MC 2705.

2862 HONORS: Contemporary Public Address (3) Effectiveness of public address in contemporary society; limitations on free speech; influence of mass communication on public address; rhetorical practices in politics, law, religion, and science; mass communication and minority and pressure groups.

3012 History of Film (3) Film as a mode of communication and an artistic form from 1895 to the present; classic films screened and analyzed.

3040 Advanced Interpretation of Literature (3) Prereq.: SPCM 2040. Analysis and performance of selected short stories and poems.

3069 Advanced Public Speaking (3) Prereq.: grade of "B" or better in SPCM 1061, 1062, or 2060. Refined skill development in platform speaking.

3064 Communication and Power (3) Relationship of language to power; use of discourse to create and subvert power in dyads, groups, organizations, and communities.

3120 Introduction to the Contemporary Media (3) Various forms of media (television, pulp novels, pop music); their promotion of cultural values and modes of conduct; study of major historical periods and themes.

3113 Conversation (3) Analysis of verbal processes in conversation; emphasis on theory and research concerning language, messages, and social interaction.

3115 Communication and Gender (3) Prereq.: SPCM 2019 or equivalent. Gender difference in communication, sex roles, and sexual stereo types in communication.

3167 Rhetoric and Civilization (3) Role of oratory in the formation, mobilization, and expression of human communities from ancient to modern times.

3650 Electronic Media and Society (3) See MC 3650.


3782 Mediation and Arbitration (3) F,S 2 hrs. lecture; 3 hrs. lab. See MC 3720.

3900 Selected Topics in Speech (3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary. Consult Schedule of Classes for current offering.

4012 Problems in the Use of Language: Symbolic and Communicative Behavior (3) Misunderstandings in interpersonal and intergroup communication.

4100 Political Communication (3) Factors and strategies in contemporary political communication in the U.S.; emphasis on electronic communication, candidates and images, campaign management, speechmaking, and advertising; study of recent and current elections.

4101 Communication in Organizations (3) Not a performance course. Speech communication theory and practice in organizations; research used to identify and solve communication problems; analyses of organizational communication.

4107 Communication and Cultural Studies (3) Prereq.: at least three of the following—SPCM 2010, 2040, 2063, 3012, 3014, 3117, 3900. Critical studies of contemporary culture; emphasis on popular culture and media texts, audiences, and institutions.

4113 Advanced Discussion (3) For teachers and directors of discussion, people in industry, and other advanced students.

4114 Contemporary Theories of Communication (3) Current methods and theories of human communication; research literature; behavioral antecedents and consequences of messages and their variations; how messages interact with communicators to produce behavioral outcomes.

4118 Modeling Communication Within Marital and Family Relationships (3) Prereq.: SPCM 2010. Also offered as SOCL 4402. Gender differences in communication within marriages and other family arrangements.

4119 Nonverbal Communication (3) Prereq.: SPCM 2010 or equivalent. Communication systems such as kinesics and proxemics; relationship between nonverbal and verbal communication.

4119 Interpretation of Literature (3) Poetic theory applied to contemporary literature. Literature as a form of expression.

4119 Interpretation of Literature (3) Oral presentation of current literary trends and techniques; development of oral interpretation skills.

4122 Oral Interpretation of Special Literary Texts (3) May be taken for a max. of 6 hrs. of credit when topics vary. Oral presentation of specific literary styles or periods.

4124 Performance of Southern Fiction (3) Prereq.: SPCM 2040 or equivalent. Study of selected texts of contemporary southern fiction through solo and group performance; literary criticism of texts performed; relevant narrative and performance theory.
7090 Systems Science Design Project (1-9) Prereq.: minimum of 12 sem. hrs. earned toward the systems science degree. Individual design, development, implementation, and documentation of a project applying systems techniques, possibly involving computing, to a problem in the student's specialization.

8000 Systems Science Thesis Research (1-12 per sem.) "S"/"U" grading.

TEATRE • THTR

1020 Introduction to Theatre (3) The arts of the theatre and its artists; acting, directing, costume and scenic design; playwriting, architecture.

1021 HONORS: Introduction to Theatre (3) Same as THTR 1020, with special emphasis for qualified students.

1025 Acting: Improvisation (3) Exploration, through theatre games and movement training, of the actor's problems of intention, physical expression, emotion, concentration, and mime.

1029 Stage Movement I (3) Prereq.: THTR 1025, 2 hrs. lecture; 2 hrs. lab. Starting stage movement for the actor, including flexibility, alignment, spatial awareness, gesture and body composition, and physical characterization.

1127 Beginning Course in Modern Dance (3) hrs. lab.

1128 Beginning Course in Ballet (3) hrs. lab.

1130 Beginning Course in Jazz Dance (3) hrs. lab.

1277 Intermediate Course in Modern Dance (1) 3 hrs. lab.

1300 Introduction to Dance (3) Dance as a performing art.

1504 Dance Theatre (3) 6 hrs. lab. May be taken for a max. of 4 hrs. of credit. Admission by audition. Participation in the theatre.

2032 Stage Makeup (1) Fundamentals of straight and character makeup; laws governing line, color, light, and the practical experience in makeup through various productions.

2025 Fundamentals of Acting (3) Prereq.: THTR 1025; and concurrent registration in THTR 2026. Principles involved in the development of the actor and their application through development of technical skill.

2026 Theatre Practicum I (1) May be taken for a max. of 3 sem. hrs. of credit. No more than a total of 3 sem. hrs. of THTR 2026 and 4116 may be taken for undergraduate credit. Participation in performance or production of a play produced by the University Theatre.

2027 Stage Voice: Basic Techniques (3) Development of the actor's voice: production, physical awareness, breath release, phonation, resonance, and articulation to meet theatre performance standards.

2028 Introduction to Dramatic Form (3) Comedy, tragedy, and melodrama through a study of representative modern plays.

2029 Stage Movement II (3) Prereq.: THTR 1029; 2 hrs. lecture; 2 hrs. lab. Continuation of THTR 1029; specialized activities in character types and tempo, mask work, mime, and stage combat.

2042 Fundamentals of Theatre Technology (3) Prereq.: THTR 1022; and concurrent registration in either THTR 2026 or THTR 4136. Topics include arts management, stage craft, stage management, costume construction, and sound and lighting technology.

2052 Advanced Acting (3) Prereq.: THTR 2025. Characterization and scene work.

2072 Stage Voice: Advanced Techniques (3) Prereq.: THTR 2027. Continued development of the actor's vocal craft.

3112 Development of Theatre and Drama I (3) Historical survey of the development of theatre and drama from ancient Greece to French neoclassicism.

3112 Development of Theatre and Drama II (3) Historical survey of the development of theatre and drama from the 18th century to the present.

3022 Dance Composition (3) Fundamental elements and principles of choreographic composition.

3838 Improvisation (3) Structural problems and exploration in dance improvisation.

5909 Selected Topics in Theatre (3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit. More advanced topics in theatre, as designated by the instructor.

7201 Design: Backstage Production (3) Prereq.: THTR 1026 or 4160. American public address system: from colonial times to the present; speeches of outstanding American statesmen, lawyers, and orators, and the use of effective public address. 8911 Seminar in Communication Design (3) Prereq.: consent of instructor. Types of speech criticism, criteria, and measures of effectiveness of public address.

7264 Seminar: Evolution of Rhetorical Theory, British and American (3) Development in rhetorical theory in Britain and America from about 1529 to the present; discussion of influential English and American works by Campbell, Blair, Whately, and Kenneth Burke.

7016 Contemporary Rhetorical Theory (3) Prereq.: THTR 1026 or 4160 or 4165 or equivalent. Development in rhetorical theory from contemporary (3) theoretical and critical perspectives; key concepts in the philosophy of rhetoric.

4290 Practicum in Speech Communication (1) Prereq.: consent of instructor. May be taken for a max. of 3 sem. hrs. of credit. American public address system: from colonial times to the present; speeches of outstanding American statesmen, lawyers, and orators, and the use of effective public address.

7016 Contemporary Rhetorical Theory (3) Prereq.: THTR 1026 or 4160 or 4165 or equivalent. Development in rhetorical theory from contemporary theoretical and critical perspectives; key concepts in the philosophy of rhetoric.

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7016 Contemporary Rhetorical Theory (3) Prereq.: THTR 1026 or 4160 or 4165 or equivalent. Development in rhetorical theory from contemporary theoretical and critical perspectives; key concepts in the philosophy of rhetoric.
2725, 2726 Stage Movement V, VI (3, 3) Prereq.: THTR 7234 or equivalent, 2 hrs. lecture; 2 hrs. lab. (V) Unarmed and armed stage combat techniques. (VI) Period styles: movement, dance, understanding, process for major epochs of theatre from the Dark Ages through the 18th century; advanced stage combat.

2727, 2728 Stage Movement VII, VIII (3, 3) Prereq.: THTR 7236 or equivalent, 2 hrs. lecture; 2 hrs. lab. (VII) Continued movement styles with focus on Greek, commedia dell'arte, 19th century, and experimental theatre. (VIII) Explores major trends in movement as performance material.

2760, 2761 Directing Seminar IA, IB (3, 3) Prereq.: admission to M.F.A. directing program or consent of instructor. (I) Terminal class in advising techniques in directing. (II) Directing practice of directing an entire production.

2722, 2723 Directing Seminar III, IIIB, IIIC (3, 3) Prereq.: THTR 7731. (IIIB) Director's approach to directing elementary student productions. (IIIC) Director's approach to Shakespearean and Jacobean drama; acts from plays presented on the workshop level.


7625, 7626 Theatre Technology Seminar IA, IB (3, 3) Prereq.: admission to M.F.A. design program or consent of instructor. (IA) Advanced techniques used on stage and in the scenic shop. (IB) Techniques using electronics and optics for the stage.

7610 Directed Professional Internship (1-12) Prereq.: third-year status in theatre M.F.A. program; 2-4 hrs. lab. Pass-fail grading. A theatre-related internship with a professional theatre company, business or business (lighting manufacturer, professional theatre company) or government agency. Special topics are available.

7721 Lighting Design II (3) Prereq.: admission to M.F.A. design technology program or consent of instructor. Preparation and production of lighting design, equipment, and assistant designer skills.

7722, 7723 Lighting Design III, IV (4, 4) Prereq.: THTR 7721 or equivalent. 3 hrs. lecture; 2 hrs. lab. (IV) Elements of lighting design and lighting of the light lab. (IV) Complete presentations of lighting designs for various types of productions.

7901, 7902, 7903, 7904 History of the Theatre I, II, III, IV (3, 3, 3, 3) Survey of historical development in the theatre in ancient Greece, Rome, and the Orient (7901); the medieval and Renaissance periods (7902); the 17th to 19th centuries (7903); and the 19th century to the present (7904).

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 Seminar in Drama: Realism to Contemporary (3) May be taken for a max. of 6 hrs. of credit when topics vary.

7913 Seminar in American Drama: 18th to the Present (3) May be taken for a max. of 6 hrs. of 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 theoretical or historical text studied through research, direction of a one-act play, and participation in a specific University Theatre production.

7922 Seminar: Performance Theories and Criticism (3) May be taken for a max. of 6 hrs. of credit when topics vary.

7924 Seminar: Evolution of Dramatic Theory (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Major concepts of dramatic theory and practice in classical, medieval, and Renaissance periods.

7925 Seminar: Evolution of Dramatic Theory (3) May be taken for a max. of 6 sem. hrs. of credit when topics vary. Major concepts of dramatic theory and practice in the European and American modern period.

7927, 7928 Problems in Theatre History, III, 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 (3-12) 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.

7930 Theatre Production (1-12) Prereq.: admission to M.F.A. theatre program. 2-4 hrs. lab. Major acting, directing, design, or technical responsibility for one or more LSU productions.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

UNIVERSITY • UNIV

Special courses of timely and general interest are offered as "University" courses. These courses are interdepartmental in scope and centered on topics of current concern. Specific courses are not offered more than twice. Each course carries undergraduate credit of one to three semester hours. Acceptance of these courses toward a degree is subject to the approval of the departmental faculty. Meeting requirements for a degree 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" (1988), "Molecular Genetics of Prokaryotes" (1990), "The Holocaust" (1992), "Political Communication" (1993), and "Race Relations" (1995).

VETERINARY ANATOMY - VAN
4145 Introduction to Medical Neurobiology (3) F Coreq. 24 hr. of clinical experience. Reports and discussions on topics of current interest in various subspecialties of veterinary anatomy.
8702 Research Techniques in Anatomy and Cell Biology (1-4) Coreq. 24 hr. of credit when topics vary. Specialized research techniques related to specific discipline of anatomy and/or cell biology.
7083 Special Topics in Anatomy and Cell Biology (1-4) Coreq. 24 hr. of credit when topics vary. Specialized coverage of a topic of current interest in anatomy and/or cell biology.
7185 Ultrastructural Cytology (3) S Prereq.: consent of instructor. 2 hr. lecture; 2 hr. lab. Fine structure of animal cells and cell products; relationships of ultrastructure to function of the intact animal.
7164 Electron Microscopy: Veterinary Applications (3) Su Prereq.: credit or registration in ZOOL 7701 or consent of instructor. 1 hr. lecture; 6 hrs. lab. Preparation of companion, food, laboratory, and exotic animal tissues including biopsies for transmission and scanning electron microscopy, operation of S-150 SEM, EM-10, and EM-102/50, and ancillary equipment.
7190 Advanced Macroscopic Anatomy (1-3) Prereq.: consent of instructor. May be repeated for credit when topics vary. Specialized dissection of one or more of the following: dog, horse, ruminants, laboratory, exotic, or avian species.
7112 Advanced Microscopic Anatomy (1-3) Prereq.: consent of instructor. May be repeated for credit when topics vary. Specialized dissection of one or more of the following: dog, horse, ruminants, laboratory, exotic, or avian species.
2303 Orthopedic Anatomy (3) V Prereq.: DVM. degree; 2 hr. lecture; 3 hr. lab. Basic and applied principles of the anatomy of the musculoskeletal system.

Veterinary Clinical Sciences - VCS
7001 Seminar: Veterinary Clinical Sciences (1) Prereq.: DVM. or equivalent degree or consent of instructor. May be taken for a max. of 8 hrs. of credit when topics vary. New developments in veterinary internal medicine, surgery, dermatology, ophthalmology, cardiology, neurology, theriogenology, and laboratory/exotic animal medicine.
7281 Veterinary Gastroenterology (2) Prereq.: DVM. or equivalent degree or consent of instructor. May be taken for a max. of 8 hrs. of credit when topics vary. Advantages and disadvantages of surgical and endoscopic techniques related to an organ system.
7283 Advanced Veterinary Cardiac and Respiratory Diseases (2) V Prereq.: DVM. or equivalent degree or consent of instructor. Cardiac and respiratory diseases and related conditions with emphasis on pathophysiology, diagnosis, and therapy.
7284 Advanced Veterinary Orthopedics (2) Prereq.: DVM. or equivalent degree or consent of instructor. Bone, muscle, tendon, and ligament diseases with emphasis on pathophysiology, diagnosis, and management options.
7285 Advanced Veterinary Clinical Neurology (2) Prereq.: DVM. or equivalent degree or consent of instructor. Diseases of the central and peripheral nervous system with emphasis on pathophysiology, diagnosis, neurosurgery, and other management options.

VETERINARY MEDICINE - VMED
Courses in the professional curriculum are designated as "Veterinary Medicine" (VMED) courses, rather than departmental courses or courses of the individual discipline. 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 course is utilized by all veterinary medicine students.
7001 Seminar: Veterinary Medical Sciences (1) Prereq.: consent of instructor. 2 hrs. lecture; 2 hrs. lab. Basic principles of vector control and pharmacology. Topics of current interest in veterinary medicine.

VETERINARY MICROBIOLOGY AND PARASITOLOGY - VMP
7001 Seminar: Veterinary Microbiology and Parasitology (1) Prereq.: DVM. or equivalent degree or consent of instructor. May be taken for a max. of 8 hrs. of credit. Reports and discussions on topics of current interest in various subspecialties of veterinary medicine.

VETERINARY PATHOLOGY - VP
7001 Seminar: Veterinary Pathology (1) Prereq.: DVM. or equivalent degree or consent of instructor. May be taken for a max. of 8 hrs. of credit when topics vary. Reports and discussion of current topics in various disciplines of veterinary medicine.
7002 Veterinary Medical Research Techniques (1-4) Prereq.: 24 hr. of credit when topics vary. Specialized research techniques related to specific discipline of veterinary medicine.
7003 Topics in Veterinary Pathology and Parasitology (1-4) Prereq.: DVM. degree or equivalent. May be taken for a max. of 8 hrs. of credit when topics vary. Topics in veterinary bacteriology, immunology, parasitology, and virology; emphasis on infectious disease research.
7004 Pathogenic Mechanisms of Bacteria (3) F-O Prereq.: MBIO 4121, 4122 and BCH 404H or equivalent. Relation of bacterial structure and function to the induction of disease; variable factors, mechanisms of host-parasite interaction; vaccine strategies.
7005 Pathogenic Pathogenesis Laboratory (1-3) F-O Prereq.: credit or concurrent registration in VM 7404 or equivalent. 2-6 hrs. lab. May be taken for a max. of 6 hrs. of credit. Laboratory techniques for selected topics in bacterial pathogenesis.
7140 Biochemistry of Viruses (3) S-O Prereq.: BCH 4204 or equivalent. 2-3 hrs. of credit when topics vary. Virology: virology: isometric interactions in disease; drug resistance, mechanisms of cell transformation; vaccine strategies.
7141 Molecular Mechanisms of Viral Pathogenesis (3) F-E Prereq.: MBIO 4190 or VMED 5330 or equivalent. Selected topics in replication and entry strategies of human and animal pathogens; evaluation of gene function in intact cell.
7143 Cellular and Molecular Immunology Laboratory (1-3) S-E Prereq.: credit or registration in VM 7423 or equivalent. 2-6 hrs. lab. Laboratory techniques in modern immunology, isolation, identification, and functional testing of proteins and cells of the immune system.
7145 Current Experimental Methods in Parasitology (1-4) F-E Prereq.: a course in parasitology or equivalent. 2-8 hrs. lab. May be taken for a max. of 4 sem. hrs. when animal groups vary. Specialized laboratory methods used to produce experimental infections, diagnose parasitism and recognize and identify parasites in various animal species, ruminants, horses, pigs, and companion animals.
7147 Immune Response to Infections and Parasitic Agens (3) S-O Prereq.: BCH 4204 or equivalent. 2-3 hrs. of credit when topics vary. Immune mechanisms in controlling or exacerbating disease caused by bacteria, viruses, protozoa, helminths, and arthropods; selected examples of vaccine development and trends in application.
7149 Population Dynamics and Ecology of Parasite and Vector-Borne Diseases (3) S-E Prereq.: course in parasitology or equivalent. 2-3 hrs. of credit when topics vary. Population regulation and distribution of parasitic and vector-borne diseases of veterinary and medical significance; disease risk in populations and control strategies based on population models, transmission dynamics, climate, nutrition, socioeconomic, and geographic information systems, and herd health programs.
7241 Zoonotic Infectious and Parasitic Diseases (3) V Prereq.: MBIO 4122 and ZOOL 4105 or equivalent. See catalog.
7243 Cellular and Molecular Immunology (3) S-E Prereq.: introductory course in immunology. Cellular and molecular basis for the immune response; emphasis on molecular structure and function, antibodies and other receptors; role of lymphocyte subsets and cytokines in regulation of immune responses.
7244 Diseases of Aquatic Animals (3) F-E Prereq.: content of instructor. Basic principles of disease of aquatic animals strongly recommended. 2 hrs. lecture; 2 hrs. lab. Same as FISI 7424.
7432 Cell and Organ Culture Techniques in Bio research (3) F Prereq.: BCH 4093 and MBIO 2051 or equivalent. 1 hr. lecture; 4 hrs. lab. Application of cell and organ culture techniques to current research problems.
8908 Thesis Research (1-12 per sem.) "S"/"U" grading.
9003 Dissertation Research (1-12 per sem.) "S"/"U" grading.

VETERINARY IMMUNOPATHOLOGY - VIP
7501 Cellular Pathology (3) S Coreq. Basic immunologic mechanisms of disease; pathogenesis and etiology of lesions and how they are expressed microscopically, histochemically, biochemically, and electron microscopically.
7502 Systemic Veterinary Pathology (5) S Prereq.: DVM. degree or equivalent. 2 hr. lecture; 6 hrs. lab. Study major organ systems, using electron and light microscopy; pathogenesis of specific diseases.
7508 Histopathology Slide Conference (1) F Prereq.: DVM. degree or equivalent. May be taken for a max. of 4 hrs. of credit when topics vary. Gross and microscopic examination of surgery-derived specimens of diseased tissues from domestic and exotic animals. Clinical case evaluation, histopathological diagnosis, description, prognosis, and consultation techniques.
7511 Veterinary Immunopathology (2) V Prereq.: DVM. degree or equivalent. Comparative microscopic and macroscopic study of lymphoid tissues and the relationship of structural changes to function in mammals and other species; alterations related to development and disease agents.
7512 Veterinary Gastrointestinal Pathology (2) Prereq.: DVM. degree or equivalent. Comparative microscopic and macroscopic study of responses of the mammalian gastrointestinal system to disease-producing agents; specific and generic aspects of the pathogenesis of gastrointestinal disease.
7514 Laboratory Animal Pathology (2) Prereq.: DVM. degree or equivalent. Comparative microscopic and macroscopic study of responses of the mammalian gastrointestinal system to disease-producing agents; specific and generic aspects of the pathogenesis of gastrointestinal disease.
7516 Veterinary Dermatology (2) V Prereq.: DVM. degree or equivalent. May be taken for a max. of 8 hrs. of credit when topics vary. Necropsy of food animals submitted for postmortem examination; gross, light, and
7001 Principles of Safety Evaluation (2) S-O Prereq.: EXST 7004, VPT 4001, and consent of instructor. Safety evaluation procedures employed by industry, government, and academia; practical application, utility, and limitations of common protocols for detecting adverse effects of chemicals on living systems.

7620 Comparative Metabolism of Environmental Pollutants (V) Prereq.: CHEM 3200, VPT 4001, consent of instructor. Same as ENV 7200. Biochemical systems from various invertebrate, vertebrate, and plant species involved in the metabolic activation and detoxification of xenobiotic substances; use of these systems as biomarkers of pollution impact.

7621 Clinical Pharmacology (1) S Prereq.: VPT 7602. Principles of pharmacokinetics of fluid therapy and chemotherapy in veterinary medicine.

7622 Fundamentals of Chemical Carcinogenesis (3) S-E Prereq.: VPT 7604 or consent of instructor. Identification and structural features of carcinogens; role of free radicals in biology and pathology; molecular mechanisms in chemical carcinogenesis, including pathways for metabolic activation and detoxication of xenobiotics; use of these systems as biomarkers of pollution impact.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Predissertation Research (1-9) May be taken for a max. of 9 sem. hrs. of credit.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

VETERINARY SCIENCE • VETS

2000 Anatomy and Physiology of Farm Animals (3) S Anatomy and physiology of farm animals; important species differences.

2820 Herd Health and Disease Management of Domestic Farm Animals (3) S Herd health program of preventive medicine for farm livestock; disease processes, epidemiology, and rational approaches to therapeutic principles and control of diseases.

3002 Practical Work with Livestock (1) S 3 hrs. lab. Dehorning, castration, branding, methods of restraint, and methods for control of parasites.

4004 Poultry Sanitation, Diseases, and Parasites (3) S Prereq.: MIBIO 2051. Poultry diseases and parasites of economic importance.

4823 Diseases of Game and Fur-Bearing Animals and Birds (3) S Inedent diseases and parasites of game and fur-bearing animals and birds.

VETERINARY MEDICAL EDUCATION • VED

2001 Foundations of Vocational Education (3) F 2 hrs. lecture; 2 hrs. lab. Overview of programs and practices; history, philosophy, and purposes of vocational education.

3300 Transition to Vocational Education and Adult Education (3) S Recognized methods of group presentation and individual training.

3602 Learning Styles (1) S How individuals perceive and process information; learning cycle applications in teaching management; work-team performance; business, industry, and career development.

3603 Classroom Management in Vocational Education (1) S Managing the vocational education classroom; emphasis on student behavior; techniques for preventing, diagnosing, and handling student discipline problems.

4001 History of Vocational Education (3) F,Su-E Events and organizations which contributed to the development of vocational education.

4102 Course Development in Vocational Education (3) V Concepts and lesson plan development in vocational education; selection and evaluation of course materials.

4200 Teaching in Vocational Education Content Areas (3) S Prereq.: VED 3101 and 3200. Teaching vocational education in the formal classroom; emphasis on content area, selection of materials, and planning instruction.


4301 Assessment, Career Development, and Productivity (3) S Assessing present and future needs of the vocational education student; procedures used to evaluate student preferences, career potential, and occupational placement.
4584 Youth Leadership Development (3) F,Su Principles and practices in planning, organizing, and conducting youth organization activities.

4601 Vocational Education Student Evaluation (3) F Assessment of progress of vocational students in psychomotor, cognitive, and affective skills.

4604 Field Experiences in Vocational Classroom Management (1) V Prereq.: concurrent registration in or credit for VED 3603 or 7203. Observation and evaluation of classroom management techniques.

7044 Time Management Techniques in Vocational Education (3) S Methods of planning and procedures for using time efficiently in conducting the vocational education program.

7052 Education, Business, and Entrepreneurship (3) V Principles and strategies involved in establishing and operating small businesses using resources available to aid the educator in bridging the gap between entrepreneurship and vocational education.

4891 Internship: Professional (3) V Must be taken in conjunction with both VED 4801 and 4802. Not for graduate credit. Professional responsibilities; teacher association work; teacher, parent, and student organization activities; school visits and certification.

4892 Internship: Preparation (3) V Must be taken in conjunction with both VED 4801 and 4802. Not for graduate credit. Evaluation of student's ability to operate and maintain an instructional laboratory; development of curricular materials for organizing and evaluating the teaching environment.

4893 Internship: Delivery (3) V Must be taken in conjunction with both VED 4801 and 4802. Not for graduate credit. Evaluation of the student's lesson preparation, demonstration ability; laboratory organization and participation in classes.

4899 Advanced Problems in Vocational Education (1-3) F,Su May be taken for a max. of 6 sem. hrs. of credit. Individual and group problems.

7091 Principles of Practical Arts and Vocational Education (3) F,Su Principles of practical arts and vocational education in programs below the baccalaureate level: relationships to career education, general education, and society.

7093 Philosophy of Vocational Education (3) S,Su-O Major philosophies which have influenced vocational education; philosophical approaches to problems in vocational education.

7191 Curriculum Development in Vocational Education (3) F Curricular patterns, problems of balance, scope, organization, sequence, selection, and articulation.

7291 Advanced Teaching Techniques in Vocational Education (3) S,Su Principles underlying the vocational teaching/learning process; use of effective vocational teaching methods and strategies.

7292 Systems of Teaching and Learning Styles (3) V Analysis of how individuals perceive and process information; interpersonal relationships with personality, leadership, management, supervision, administration; applications in education, business, industry, and nonformal settings.

7293 Discipline in Vocational Education (3) S Su Prevention, recognition, and handling of classroom discipline problems; emphasis on models of discipline and development of a personal philosophy of discipline.

7295 Teaching in Higher Education (3) F Advisory methods for effective college teaching; student motivation; planning for instruction, delivery, and evaluation.

7391 Orientation to the World of Work (3) Su See EDAF 7301.

7384 Vocational Education for Special-Needs Students (3) S Regulations, issues, assessment, instruction, and special problems in vocational education for learners with special needs.

7332 Educational and Occupational Information (3) F,Su Also offered as EDAF 7321. Classification and analysis of educational, occupational, and social information; occupational trends and surveys; use of occupational information by teachers, guidance counselors, and others.

7334 Vocational Counseling (3) S,Su-E See EDAF 7334.

7392 Advanced Vocational Counseling (3) S Su See EDAF 7392.

7398 Field Experiences in Vocational Counseling (3) F,Su See EDAF 7398.

7491 Administration of Adult Vocational Education Programs (3) V Systems development in adult education as a component of vocational education in contemporary society; program conceptualization, needs assessment, program initiation, development, financing, administration, and evaluation.

7492 Program Evaluation Design (3) V Systematic application of social research procedures for evaluating the conceptualization, design, implementation, and utility of vocational educational programs.

7701 Organization and Administration of Vocational Education Programs (3) F,Su Principles of organization, leadership, and administration; development of skills needed for effective vocational education leadership.

7702 Supervision in Vocational Education (3) S,F,Su Principles of supervision in teaching vocational at local and state levels.

7703 Supervision of Professional Field Experiences in Vocational Education (3) F Philosophy, principles, and procedures in supervision of student teaching in vocational education.

7766 Home Economics in Higher Education (3) Goals and objectives of home economics: program development; roles and responsibilities of faculty.

7801 Current Problems and Issues in Vocational Education (1-3) F,Su Legislative, societal, and educational concerns affecting vocational education.

7803 Independent Study in Vocational Education (1-3) F,Su May be taken for a max. of 3 sem. hrs. of credit. Faculty directed study of relevant topics in vocational education.

7850 Seminar in Vocational Education (1-4) F,Su May be taken for a max. of 5 sem. hrs. of credit. Selected topics of interest to vocational educators.

7894 Principles for the Vocational Educator (3-9) F,Su Practical experiences in the guidance of practicing vocational educators in various educational settings.

7917 Scientific Methods in Vocational Education (3) F Emphasis on the scientific method in solving vocational problems; research techniques; history, descriptive, experimental, and research methodologies.

7993 Survey Research Design and Implementation (3) S Prereq.: VED 7901 and EXST 4001 or equivalent. Survey and correlational research in vocational education; emphasis on selection and/or development of appropriate measurement levels.

7995 Advanced Research Design (3) S Prereq.: VED 7901 and EXST 4001 or equivalent. Research design; emphasis on research concepts and procedures and their application to extension education.

7999 Application, Interpretation, and Reporting of Research Results (3) F Prereq.: VED 7901, 7903 or 7905; and EXST 7006 or equivalent. Selection of appropriate statistical techniques and interpretation of results.

8000 Thesis Research (1-12 persem.) "S"/'U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/'U" grading.

VOCA TIONAL TRADE AND INDUSTRIAL EDUCATION * VTIE

These courses are designed to meet Vocational Trade and Industrial Education teacher certification requirements in secondary and post-secondary schools in Louisiana.

2070 Introduction to Vocational Trade and Industrial Education (3) V

2071 Safety Practices and Industrial Hygiene (3) V

2072 Principles of Teaching Vocational Trade and Industrial Education (3) V

2073 Preparation of Instructional Materials (3) V

2074 Vocational Selection and Placement (3) V

2075 Vocational Objectives (3) V

2076 Management of Vocational Industrial Shops (3) V

2077 Testing in Vocational Trade and Industrial Education (3) V

2079 Apprenticeship Teaching in Vocational Trade and Industrial Education (8) V

WILDLIFE * WILD

1001 Introduction to Wildlife Management (3) F,Su Principles of wildlife history, habitat requirements, and management of wildlife; emphasis on species with different economic value; careers in wildlife management.

2031 Principles of Wildlife Management (3) F Wildlife conservation and management; ecology and management of wildlife in relation to the objectives of consumptive and nonconsumptive interaction.

3016 Wildlife Biology: Mammals, Reptiles, Amphibians (3) F 2 hrs. lecture; 3 hrs. lab. Transportation fee. Morphological, physiological, and behavioral adaptation to the environment; regulation of populations; relationships between biology and management.

4011 Wildlife Management Techniques (3) S 2 hrs. lecture; 3 hrs. lab. Transportation fee. Wildlife literature; age and sex determination; habitat mapping, analysis, and evaluation; wildlife capture and marking techniques; population density, analysis, and evaluation.

4013 Ecology and Management of Wetland Wildlife (2) S History and value of wetlands, waterfowl, fur animals, alligators, wetland habitat management.

4020 Taxonomy and Ecology of Aquatic Plants (3) See PBIO 320 and FISH 4020.

4035 Ecology and Management of Upland Wildlife (3) F See FOR 4035.

4050 Wildlife Policy and Law Enforcement (3) S International treaties, federal and state laws affecting wildlife resources; current policy issues in wildlife and fisheries.

4061 Selected or Assigned Wildlife Problem (1-4) F,Su May be taken for a max. of 6 sem. hrs. of credit.

7001 Research Methodology (3) See FOR 7001.

7010 Ecology and Management of Birds and Small Mammals (3) F 2 hrs. lecture; 2 hrs. lab. Transportation fee. Ecology and management of birds and small mammals of North America; upland game species indigenous to the southeastern United States.

7011 Ecology and Management of Large Mammals (3) S,F,Su 2 hrs. lecture; 3 hrs. lab. Transportation fee. Management and ecology of large mammals of North America; game species indigenous to the southeastern United States.

7012 Ecology and Management of Waterfowl (3) F 2 hrs. lecture; 3 hrs. lab. Transportation fee. Behavioral and physiological adaptations of waterfowl throughout the annual life cycle; population dynamics and habitat management; political and economic aspects of harvest management in North America.

7013 Wildlife Population Dynamics (3) F,O 2 hrs. lecture; 2 hrs. lab. Theories of population growth and regulation, population interaction, life tables, mortality rate calculation; band data analysis; population modeling.

7018 Habitat Management Principles (3) S,O Principles of management applied to habitats, communities, populations, and species; habitat evaluation; endangered species; mitigation; global trends of habitat quality and change.

7029 Advanced Topics in Wildlife (1-4) V May be taken for a max. of 4 sem. hrs. of credit when topics vary. Also offered as FISH 7070. Topics of current interest in wildlife management and fisheries biology.

8000 Thesis Research (1-12 per sem.) "S"/'U" grading.

8900 Research Problems in Wildlife (1-3) F,Su May be repeated for credit. Pass/fail grading.

9000 Dissertation Research (1-12 per sem.) "S"/'U" grading.

WOMEN'S AND GENDER STUDIES * WGS

2500 Introduction to Women's and 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.

3150 Survey of Feminist Theory (3) Interdisciplinary study of a range of feminist theories through which to comprehend roles of women and sexuality.

4500 Special Topics in Women's and 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 and 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.
ZOOL 2157: Systematic Biology (4) Prereq.: 2 sem. hrs. of 4000 level courses. Credit not given for both BIOL 2157 and ZOOL 2153. 3 hrs. lecture; 2 hrs. lab. See PBIO 7111. Theoretical and empirical aspects of systematics and evolutionary biology.

ZOOL 2158: Ethology (4) Prereq.: consent of instructor. 2 hrs. lecture; 6 hrs. lab. and field work. Evolutionary basis of animal behavior.

ZOOL 2160: Marine Ecology (3) Prereq.: consent of instructor. 3 hrs. lecture; 3 hrs. lab. and field work. Also offered as OCS 7317. Physical, chemical, and biological environmental factors affecting distribution of marine fauna; communities representative of each of the ecological subdivisions of the world's oceans treated with respect to species composition, food webs, and seasonal changes; human impact on the marine environment.

ZOOL 2175: Invertebrate-Microbial Interactions in Aquatic Ecosystems (4) Prereq.: consent of instructor 2 hrs. lecture; 3 hrs. lab. Invertebrate-microbial interactions in aquatic food webs; ecological significance of mutualistic, parasitic, and commensal relationships.

ZOOL 2180: Environmental Physiology of Estuarine Animals (4) Prereq.: consent of instructor. 3 hrs. lecture; 3 hrs. lab. Effects of salinity, temperature, and dissolved oxygen on the physiology of estuarine fauna.

ZOOL 2192: Advanced Vertebrate Anatomy (4) Prereq.: ZOOL 3152. 2 hrs. lecture; 6 hrs. lab.

ZOOL 2193: Mutagenesis (3) Prereq.: ZOOL 2153 and consent of instructor. Mechanisms of mutation; methods of detecting mutations; genetic, behavioral, and ecological effects of mutagenic agents among various test organisms.

ZOOL 4146: Experimental Embryology (4) Prereq.: ZOOL 3156 or equivalent. 2 hrs. lecture; 6 hrs. lab. Field service fee. Classic and contemporary theory, techniques, experiments, and independent investigations concerning vertebrate and invertebrate embryological development.

ZOOL 4157: Molecular Adaptation to the Environment (4) Prereq.: consent of instructor. 3 hrs. lecture; 3 hrs. lab. Molecular and physiological mechanisms adapting organisms to environmental factors; emphasis on adaptations permitting organisms to inhabit a diversity of environments.

ZOOL 4158: Neurotoxicology and Cytochemistry (4) Prereq.: 3 sem. hrs. of biochemistry or equivalent. 2 hrs. lecture; 6 hrs. lab.

ZOOL 4171: Physiological Rhythms (3) Prereq.: consent of instructor. 1 hr. lecture; 4 hrs. lab. Role of endogenously produced clock components in the body's physiological system.

ZOOL 4177: Neuroendocrine Physiology (4) Prereq.: ZOOL 4155 or 4157 or 4160. 2 hrs. lecture; 6 hrs. lab. Physiology of nerve and sensory receptors; vertebrate systems and independent laboratory investigations.

ZOOL 7253: Population Genetics (3) Prereq.: ZOOL 2153 or equivalent, and one semester of calculus or statistics. Genetic variation in natural populations; application of Hardy-Weinberg law; emphasis on selection, breeding, random drift, migration, and mutation on gene frequencies.

ZOOL 7266: Evolutionary Morphology (3) Prereq.: consent of instructor, for credit. 3 hrs. lecture; 3 hrs. lab. Focus on evolutionary aspects of morphology; emphasis on integration of anatomy and physiology.

ZOOL 7279: Laboratory in Zoology (1-4) Prereq.: laboratories of the Zoology Department. Credit not given for both ZOOL 2157 and ZOOL 2153. 1-4 hrs. lab. Credit not given for both ZOOL 2157 and ZOOL 2153. 1-4 hrs. lab. Field service fee.

ZOOL 7289: Marine Biology Laboratory (1-4) Prereq.: laboratories of the Zoology Department. Credit not given for both ZOOL 2157 and ZOOL 2153. 1-4 hrs. lab. Field service fee. Laboratory experiences in marine environments.

ZOOL 7249: Evolutionary Biology of Vertebrates (4) Prereq.: consent of instructor. 3 hrs. lecture; 3 hrs. lab. Field service fee. Evolutionary biology of major groups of vertebrates; emphasis on adaptation and behavior.
7938, 7939 Seminar in Systematics, Evolution, and Zoogeography (1, 1) Each course may be repeated for credit.

7940, 7941 Seminar in Parasitology (1, 1) Each course may be repeated for credit.

7942 Seminar in Morphology (1) May be repeated for credit.

7944, 7945 Seminar in Cell Biology (1, 1) Each course may be repeated for credit.

7946 Seminar: Current Topics in Molecular Evolution (1) Prereq.: course in evolution, genetics, BCH 4087 or equivalent. Also offered as BCH 7946, PBIO 7946, and ENTM 7946. May be taken for max. of 6 hrs. of credit when topics vary.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Research (2-8) Prereq.: consent of instructor. May be taken for a max. of 8 sem. hrs. of credit.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.
ALUMNI RELATIONS

CHARLIE W. ROBERTS, JR.
President, LSU Alumni Association
Executive Director, LSU Foundation

CECIL PHILLIPS
Executive Director, Development
LSU Foundation

GLENN C. WILKINS
Senior Vice-President, LSU Alumni Association

3838 West Lakeshore Drive
(504) 388-3838

The LSU Alumni Association and the LSU Foundation are dedicated to aiding the University in all its endeavors through various activities.

THE ALUMNI ASSOCIATION

The LSU Alumni Association, a nonprofit organization whose members are graduates, former students, or friends of LSU, is dedicated to helping the University through world-wide chapter programs, maintaining alumni data records, student recruiting, student aid, information programs, and the Annual Fund.

The association is housed at 3838 West Lakeshore Drive in the Lod Cook Alumni Center, which was officially opened on May 20, 1994.

Active membership in the association is gained through an annual contribution of $35 or more to the LSU Alumni Association. Each member receives a subscription to LSU Magazine, as well as discounts at the LSU Golf Course and on car rentals. Members are eligible to participate in group travel, life insurance, and hospitalization plans; are eligible for membership in the Campus Federal Credit Union; and are entitled to limited use of some University facilities. All graduates receive a free one-year membership in the association. Those who contribute $100 or more are provided the opportunity to purchase season football tickets.

Alumni gifts generated through the Annual Fund are used to support the Alumni Scholars Program and other academic scholarships of $250 to $3,600 annually; alumni professorships of $5,000 annually; student jobs; various other faculty awards; and seminars, workshops, and meetings.

Homecoming celebrations, reunions, campus visitations, and chapter programs throughout Louisiana and around the world are planned each year by the Alumni Association. Alumni recognition programs include the LSU Alumnus of the Year, the University's highest alumni honor, and the LSU Alumni Hall of Distinction.

The Alumni Association is organized on both academic and geographic lines, offering membership in local area chapters and academic affiliate chapters. The Association Board of Directors formulates policy for the Alumni Association. Additional information concerning membership in the Alumni Association, any of its subsidiaries, or its programs may be obtained from the LSU Alumni Association, 3838 West Lakeshore Drive, Baton Rouge, LA 70808 or by calling (504) 388-3838.

THE LSU FOUNDATION

Chartered in January 1960, the LSU Foundation is a nonprofit, tax-exempt organization composed of more than 200 business, professional, and civic leaders who are concerned with the welfare and development of LSU. The LSU Foundation solicits financial support from businesses, industries, philanthropic foundations, and individuals to fund programs of educational excellence for LSU.

The LSU Foundation has provided LSU with many elements of academic enrichment that would not have been available otherwise. Private giving through the LSU Foundation supports professorships, distinguished lecture series, distinguished faculty fellowship awards, and staff incentive awards for nonacademic employees of LSU; scholarships and fellowships; studies in the humanities and professional fields; and acquisitions of library and museum artifacts and many other similar items that usually cannot be supported entirely with state revenues.

The LSU Foundation accepts undesignated gifts to be used in any academic area of the University where need is greatest; restricted gifts, used exactly for the purpose designated by the donor; special gifts such as objets d'art and rare library materials; and planned gifts made through wills, life insurance policies, and trusts.

Additional information about the LSU Foundation may be obtained from the LSU Foundation Office or by calling (504) 388-3811.
ADMINISTRATION

Under the Constitution of the State of Louisiana, 16 members are appointed to the Board of Supervisors by the Governor; Act 2 of the 1975 extraordinary session of the Louisiana Legislature authorized the appointment of one student member. The term of appointment of new members may not exceed six years; the student member serves a one-year term.

This list reflects Board membership at the time of publication of this catalog. Officers of the Board serve a one-year term beginning in August.

BOARD OF SUPERVISORS*

Officers
MILTON J. WOMACK • Baton Rouge
• Chair • 1996
CHARLES V. CUSIMANO • Metairie
• Vice-Chair • 2000

Members
JACK A. ANDONIE • Metairie • 2000
CLARENCE L. BARNEY • New Orleans
• 1994
SHERRMAN BOUGHTON • Transylvania
• (Student Member) • 1995
VICTOR BUSSIE • Baton Rouge • 2000
ELENORA A. CAWTHON • Ruston • 1996
GORDON E. DORE • Crowley • 1998
IANICE M. FOSTER • New Orleans • 1996
W. PRESCOTT FOSTER • Franklin • 1998
LAURA A. LEACH • Lake Charles • 2000
JOSEPH C. LESAGE, JR. • Shreveport
• 1998
ROGER H. OGDEN • New Orleans • 1998
PERRY SEGURA • New Iberia • 2000
CHARLES S. WEEMS, III • Alexandria
• 1996
JOHN R. WILLIAMS • Monroe • 1996

ALLEN A. COPPING • President of the LSU System • Secretary to the Board
CARLEEN N. SMITH • Administrative Secretary

*Terms expire June 1.

UNIVERSITY SYSTEM

ALLEN A. COPPING, D.D.S. • President
DUDLEY B. FRICKE, M.S. • Executive Assistant to the President
ROBERT H. RASMUSSEN, Ed.D.
• Assistant to the President
H. DOUGLAS BRAYMER, Ph.D. • Vice President for Academic Affairs
CHARLES L. MARTIN, B.Arch. • Vice President for Institutional Services
WILLIAM L. SILVIA, M.P.A. • Vice President for Administration and Finance

LSU ADMINISTRATIVE OFFICES

Office of the Chancellor
WILLIAM E. DAVIS, Ed.D. • Chancellor
HUEL D. PERKINS, Ph.D. • Executive Assistant to the Chancellor
V. DAVID DEVILLIER, J.D. • Special Assistant to the Chancellor
JOE DEAN, B.S. • Athletic Director
JOHN R. HAWKINS, III, M.P.A., J.D.
• Consultant to the Chancellor on EEO Matters

Office of Public Relations • JACKIE BARTKIEWICZ, B.A., Director
Rural Life Museum and Windrush Gardens • DAVID FLOYD, B.A., Director

Office of Executive Vice-Chancellor
JAMES M. COLEMAN, Ph.D. • Executive Vice-Chancellor
SHIRLEY GERALD, B.A. • Assistant to the Executive Vice-Chancellor
RONALD D. HAY, M.S. • Executive Director of Computing Services

Administrative Information Systems • CYNTHIA M. HADDEN, M.S., Director
Information Technology Support • EMILIO ICASA, Ph.D., Director
System Network Computer Center • WILLIAM BEYER, M.S., Director
Office of Telecommunications • CHIP DODSON, J.D., Director

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WILLIAM L. JENKINS, Ph.D.
• Vice-Chancellor and Provost
DANIEL M. FOGEL, Ph.D. • Associate Vice-Chancellor; Dean, Graduate School
LAURA F. LINDSAY, Ph.D. • Associate Vice-Chancellor
L. ROBERT KUHN, JR., M.B.A. • Special Assistant for Programmatic Planning
FRANCES G. ROPER, M.A. • Assistant to the Vice-Chancellor

Office of Undergraduate Admissions • LISA B. HARRIS, M.Ed., Director
Office of Student Aid & Scholarships • KATHLEEN M. SCIACCHETANO, M.Ed., Director
Office of Student Records & Registration • ROBERT K. DOOLOS, M.A., Director
Division of Instructional Support & Development • PAULINE M. RANKIN, Ph.D., Director
Measurement & Evaluation Center • BOBBY MATTHEWS, Ph.D., Director
Academic Center for Athletes • THOMAS KARAM, Ph.D., Director

College of Agriculture • WILLIAM B. RICHARDSON, Ph.D., Dean
College of Arts & Sciences • KARL A. ROIDER, JR., Ph.D., Dean
College of Basic Sciences • PETER W. RABIDEAU, Ph.D., Dean
College of Business Administration • JOHN L. GLASCOCK, Ph.D., Interim Dean
Division of Continuing Education • FRITZ A. McCAMERON, Ph.D., Dean
College of Design • KENNETH E. CARPENTER, M.Arch., Dean
College of Education • LAWRENCE C. PIERCE, Ph.D., Dean
College of Engineering • EDWARD McLAUGHLIN, Ph.D., Dean
General College • JACK B. PARKER, Ed.D., Dean
Graduate School • DANIEL M. FOGEL, Ph.D., Dean
Honors College • BILLY M. SEAY, Ph.D., Dean
Junior Division • CAROLYN C. COLLINS, M.Ed., Dean
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Manship School of Mass Communication • JOHN M. HAMILTON, Ph.D., Dean
School of Music • RONALD D. ROSS, Ph.D., Dean
LSU Press • LESLIE E. PHILLABAUM, M.A., Director
School of Social Work • KENNETH I. MILLAR, Ph.D., Dean
Southern Review • JAMES OLNEY, Ph.D., and DAVE SMITH, Ph.D., Coeditors
University Libraries • JENNIFER CARGILL, M.S., Dean
School of Veterinary Medicine • DAVID L. HUXSOLL, Ph.D., Dean

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JERRY J. BAUDIN, Ph.D. • Vice-Chancellor and Comptroller
RALPH E. GOSSARD, JR., M.B.A., M.A.J. • Associate Vice-Chancellor
PATRICK R. LANDRY, B.S. • Associate Vice-Chancellor
L. ROBERT KUHN, JR., M.B.A. • Assistant Vice-Chancellor
DARYL J. DIETRICH, B.S. • Assistant Comptroller
Office of Budget & Planning • L. ROBERT KUHN, JR., M.B.A., Director
Human Resource Management • FOREST C. BENEDICT, M.S., Director
Internal Auditing • JACK T. KELLOGG, B.A., C.I.A., Director
Grants and Contracts • JAMES L. BATES, B.S., Contracts Administration Officer

Office of Accounting Services • RUSSELL R. PERRY, B.S., Director
Assembly Center • WILLIAM J. WILTON, Jr., B.S., Director
Golf Course • MICHAEL JOHNSON, B.A., Director
Graphic Services • JAMES E. LEDWIDGE, B.S., Director
Campus Mail Service • LOUIS E. BURIEGE, Head
Office of Facility Services • JOE KELLEY, B.S., P.E., Executive Director
Office of Public Safety • GARY J. DURHAM, B.A., Executive Director
Office of Campus Safety • EUGENE F. EARP, B.S., C.S.P., Safety Officer
LSU Police Department • RANDY WATTS, B.A., Chief
Office of Parking, Traffic, & Transportation • GARY S. GRAHAM, B.A., Director
Office of Purchasing • ROSEMARY WILHELM, B.S., C.P.P.B., Director
Office of Bursar Operations • DONNIE COPELAND, B.S., Bursar
University Stores • DELWIN P. LACROIX, B.S., Director

Office of Research & Economic Development
HARVILL C. EATON, Ph.D. • Vice-Chancellor
JAMES MIDGLEY, Ph.D. • Associate Vice-Chancellor
RUSSELL L. CHAPMAN, Ph.D. • Associate Vice-Chancellor
TODD A. POURCIAU, B.S. • Assistant to the Vice-Chancellor
J. Bennett Johnston, Sr., Center for Advanced Microstructures and Devices (CAMD) • VOLKER SAILE, Ph.D., Director
Center for Coastal, Energy, & Environmental Resources • CHARLES G. GROAT, Ph.D., Executive Director
Office of International Development • JAMES ALBINS, M.A., Executive Director

Museum Complex • H. PARROTT BACOT, M.A., Executive Director
LSU National Ports & Waterways Institute • ANATOLY HOCHSTEIN, Ph.D., Director
Office of Sea Grant Development • JACK R. VAN LOPIK, Ph.D., Executive Director
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Louisiana Space Consortium • JOHN P. WEFEL, Ph.D., Director

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ARTHUR A. GOULAS, B.A., • Assistant Vice-Chancellor
BARBARA W. JACKSON • Assistant to the Vice-Chancellor
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Faculty Club • ROBERT C. LONG, Manager
Office of Greek Affairs • KATHLEEN F. MARCEL, B.A., Interim Director
Office of International Students • ERIN L. SCHMIDT, M.A., Director
Division of Recreational Sports • JOHN W. REZNK, Ph.D., Director
Residence Food Services • IRENE F. GARDEMAL, L.D.N., M.S., Director
Department of Residential Housing • DORIS B. COLLINS, M.S., Director
Student Health Center • FRED W. THOMAS, M.D., Chief of Staff
Office of Student Media • JON E. FISHER, M.A.J., M.B.A., Director
LSU Union • THOMAS C. LILE, M.S., Director
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). (Section 1-2.2 a, Bylaws and Regulations of the Board of Supervisors.) The faculty, through the Faculty Council, shall establish curricula, fix standards of instruction, determine requirements for degrees, and generally determine educational policy, subject to the authority of the Board of Supervisors. The authorities and responsibilities of the Faculty Council have been delegated to the elected Faculty Senate.

**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 professional rank awarded by the University. Faculty members currently designated as Boyd Professor at LSU are:

- RICHARD D. ANDERSON (Emeritus)
- ALVIN L. BERTRAND (Emeritus)
- VANCE BOURJAILLY
- JAMES M. COLEMAN
- C. DINOS CONSTANTINIDES
- WILLIAM J. COOPER, JR.
- MARY L. GOOD (Emerita)
- THOMAS R. KLEI
- SEAN P. McGLYNN
- ROBERT F. O'CONNELL
- WILLIAM H. PATRICK, JR.
- WILLIAM A. PRYOR
- JOSEPH M. REYNOLDS (Emeritus)
- ARTHUR J. RIOPELLE (Emeritus)
- CHARLES W. ROYSTER
- LEWIS P. SIMPSON (Emeritus)
- SHIRLEY C. TUCKER
- H. JESSE WALKER (Emeritus)
- PHILIP W. WEST (Emeritus)
- ROBERT C. WEST (Emeritus)

**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. Faculty members currently holding the title of Alumni Professor at LSU are:

- SAM ADAMS • Education (Emeritus)
- THOMAS R. BEARD • Economics (Emeritus)
- HUBERT S. BUTTS • Mathematics (Emeritus)
- JESSE COATES • Chemical Engineering (Emeritus)
- ARTHUR R. COLMER • Microbiology (Emeritus)
- BEVERLY J. COVINGTON • Civil Engineering (Emeritus)
- HERMAN E. DALY • Economics (Emeritus)
- JOHN L. DAVIDSON • Finance (Emeritus)
- GRESDNA A. DOTY • Theatre
- CECIL L. EUBANKS • Political Science
- JACK E. GUERRY • Music
- WILLIAM G. HAAG, JR. • Anthropology (Emeritus)
- DOUGLAS P. HARRISON • Chemical Engineering

- ROBERT W. HECK • Architecture (Emeritus)
- MERLIN T. HENDERSON • Agronomy (Emeritus)
- SAM B. HILLIARD • Geography (Emeritus)
- MARY FRANCES HOPKINS • Speech Communication
- GEORGE G. KENT, JR. • Zoology (Emeritus)
- JOHN L. LOOS • History (Emeritus)
- JOHN R. MAY • English
- BURL L. NOGGLE • History (Emeritus)
- JAMES P. PAYNE, JR. • Economics (Emeritus)
- ROBERT S. REICH • Landscape Architecture (Emeritus)
- JAMES A. RICHARDSON • Economics
- CLAUDE L. SHAVER • Speech (Emeritus)
- MARION D. SOCOLOFSKY • Microbiology
- DONALD E. STANFORD • English (Emeritus)
- EDWIN O. TIMMONS • Psychology (Emeritus)

**Other Distinguished Professorships**

The University's other distinguished professorships and the faculty members who hold them are:

- SUMANTA ACHARYA • L.R. Daniel, Jr., Professorship in Mechanical Engineering
- ZAKI A. BASSIOUNI • John W. Rhea, Jr., Professorship in Engineering
- ARTHUR G. BEDEIAN • Ralph and Kacoo Olinde Distinguished Professor of Management
- G. GEOFFREY BOOTH • Union National Life Insurance Co. Endowed Professorship in Insurance
- ARNOLD H. BOUMA • Charles T. McCord, Jr., Professor of Geology & Geophysics
- ADAM T. BOURGOYNE • Campanile Charities Professor of Offshore Mining and Petroleum Engineering
- VINCENT C. BRENNER • KPMG Peat Marwick Professor of Accounting
- JOHN T. CAPRIO • Mary Lou Applewhite Professorship in Zoology
- TRYFON T. CHARALAMPOPOULOS • Ted and Esther Walker Professor of Mechanical Engineering
- PETER P. CHEN • LSU Foundation Murphy J. Foster Professor of Computer Science
- PIERRE E. CONNER, JR. • Nicholson Professor of Mathematics
- WILLIAM R. DARDEN • Piccadilly, Inc., Distinguished Business Partnership Professor of Marketing
- GEORGE M. FRANKFURTER • Lloyd F. Colette Endowed Chair of Insurance and Financial Services
- JOHN L. GLASCOCK • Louisiana Real Estate Commission Endowed Chair of Real Estate
GRADUATE FACULTY

The graduate faculty consists of those members of the teaching and research faculties who have been so designated by the Chancellor, upon recommendation of the Graduate Council, acting on appropriate nominations. Such designations provide for classification as Members, associate members, or affiliate members, according to their qualifications and experience. (The term, "Member," when capitalized, denotes a full membership in the Graduate faculty; "Associate Member," when capitalized, denotes associate membership; and "Affiliate Member," when capitalized, denotes affiliate membership.)

Faculty members who hold the rank of adjunct professor, adjunct associate professor, or adjunct assistant professor in a department offering work for graduate credit are eligible for graduate faculty status as full Members or associate members, depending upon their qualifications.

Qualifications for Appointment

Full Member
• indefinite term, subject to review;
• rank of associate professor or professor in a department offering work for graduate credit;
• highest degree appropriate to the field or unquestionable evidence of comparable achievement in the field;
• experience in direction of theses and/or dissertations in and/or teaching graduate-credit courses;
• current and sustained scholarly or creative activities indicated by publications in recognized journals in the field, books, and exhibitions or performances.

Associate Member
Initial appointment of new faculty members:
• six-year term for initial appointment; two-year term for reappointment, renewable;
• rank of assistant professor or higher in a department offering work for graduate credit;
• highest degree appropriate to the field or unquestionable evidence of comparable achievement in the field.

Renewal of appointment or initial appointment of faculty members with at least six years of professional experience:
• qualifications include participation in the graduate program and scholarly or creative activities indicated by publications in recognized journals in the field, books, and exhibitions or performances.

Affiliate Member
• two-year term; renewable;
• qualified for associate membership but ineligible because appointment is not in an LSU department offering work for graduate credit or because appointment is not at the rank of assistant professor or higher;
• may serve as member of thesis, dissertation, and examination committees but may not normally chair one of those committees;
• affiliate members who have a continuing and particularly close association with a graduate instructional program may, at the special request of the department, be given permission to chair committees by the dean of the Graduate School.

Privileges and Responsibilities

Full Member
Members determine policies of the Graduate School, engage in all graduate education activities, and nominate faculty for membership on the graduate faculty. Doctoral general and final examination committees must include two full Members of the graduate faculty, including one from the major department.

Associate Member
Associate members may engage in all graduate education activities. They may chair a thesis committee if that committee includes at least one full Member of the graduate faculty from the major department. They may chair a dissertation committee if that committee includes at least one full Member of the graduate faculty from the major department.

Affiliate/Ex Officio Member
Affiliate members and ex officio members may serve as members of thesis, dissertation, and examination committees but may not normally chair one of these committees or determine policies of the graduate faculty.

FACULTY, LISTING OF

In the following list of University faculty, names are designated as follows:

- full Members of the Graduate Faculty are indicated by a single asterisk;
- associate members are marked with two asterisks;
- † affiliate members are indicated by single daggers; and
- †† ex officio members are designated by double daggers.

This list was as correct as possible at the time of publication of this catalog. It does not reflect most changes occurring after January 1, 1995.

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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.

Colleges and Schools - The academic units of the University, administered by deans or directors and staffed by faculty members, that offer the University’s academic programs. The type of training and the degree anticipated determine the student’s choice of school or college.

Concentration - An intensive study of a subject within the major field of study.

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 successful completion of course work. Credits are based on the number of times a course meets in one week during a regular semester. (2) The quantitative measure of recognition given to a course, stated in semester hours.

Cumulative or Overall 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 program of courses required for a degree in a particular field of study.

Departments - The academic units of the University within colleges or schools; administered by heads or chairs.

Elective - Course chosen by the student, as opposed to a required course. The term “elective,” without a qualifier, will be understood to be a free elective, chosen by the student at his or her option from all the courses offered by the University for degree credit, with due regard for prerequisites.

Equivalent - When used in a course prerequisite (e.g., “Prereq: SOCL 2001 or equivalent”), this term means either credit in a comparable course or adequate preparation by other experience. Determination of equivalency is left to the discretion of individual departments.

Extension Student - A student who registers for credit courses through the Division of Continuing Education, but who has not been admitted to the University. Individuals enrolled as extension students (EXT or EXTN) are ineligible to enroll in on-campus courses other than those offered by the Department of Extramural Teaching.

Extramural Courses - Credit courses offered through the Division of Continuing Education. Such courses may be offered either on the LSU campus or at off-campus sites. Extramural courses carry resident credit.

Good Standing - The typical status of a student who is not on probation and is eligible to continue in or return to the University.

Grade-Point Average (gpa) - A measure of scholastic performance; the ratio of quality points earned to semester hours attempted.

Junior Division - Division in which all freshman students enroll. The freshman year in Junior Division and the following three years in one of the senior colleges represent the normal time required for completion of a baccalaureate degree program.

Major - The major field of study; students will take the majority of their required courses in this area.

Matriculation - The state of being registered for credit and working toward a specific degree.

Minor - The student’s field of secondary academic emphasis.

Nonmatriculated - The state of being registered for credit but not working toward a specific degree. Both graduate and undergraduate students may register as “nonmatriculated.”

Preprofessional Program - A nondegree 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. At LSU, “A” = 4, “B” = 3, “C” = 2, and “D” = 1 quality point.

Registration - The process by which a duly admitted student, upon payment of required fees, is enrolled in classes.

ROTC - The Reserve Officers Training Corps program.

Semester Hour - The unit by which course work is measured. The number of semester hours assigned to a course is usually determined by the number of hours the class meets per week.

Senior College - A college or school that establishes requirements for an undergraduate degree.

Student Schedule - The courses in which a student is enrolled.

Transfer Student - A student who terminates enrollment in one college or university and subsequently enrolls in this University.
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