

The University of Louisiana at Monroe (USPS 395-480) Monroe, Louisiana

Catalog of Graduate and Professional Programs 2008-2009

EFFECTIVE WITH THE 2008 FIRST SUMMER SESSION THROUGH THE 2009 SPRING SEMESTER

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Failure to read this catalog does not excuse students from the requirements and regulations described herein.

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The University of Louisiana at Monroe, an institution of higher learning, maintains compliance with the requirements and regulations set forth by the Family Educational Rights and Privacy Act, as amended June 17, 1976. The Family Educational Rights and Privacy Act Compliance Guidelines are available to parents and students in the Office of Student Affairs, Division of Information Services, Registrar, and Student Government Association.

Message from the President



The excitement felt on the campus of the University of Louisiana at Monroe as we begin a new academic year is as real for us as this step, your beginning the next level of your education, is for you. These are times of significant change for this dynamic institution, just as they are times of significant change for you, a new graduate student. As you take the steps necessary to secure a better life by investing in your future through advanced education, so too is ULM taking the steps necessary so that we can better serve our students, our faculty and staff, our community, and society.

ULM's graduate programs are designed so that our students will get the most out of their education. Our graduate students will interact with and study under scholars of national and international distinction in their respective fields. Faith and dedication to higher order understanding and skills are at the core of ULM's graduate mission. When you master the course set within one of the 27 disciplines offered at ULM, you join the ranks of others in one of life's greatest journeys: to better understand one's self and one's environment and to contribute to a better life for everyone.

I look forward to serving ULM during the coming years and to working with you as together we explore the limitless opportunities that education makes possible.

*James E. Gofers, Sr.
ULM President*

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UNIVERSITY CALENDAR

2008

January	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	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	March	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
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2009

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THE ACADEMIC YEAR, 2008-2009

SUMMER TERM, 2008

FIRST SUMMER SESSION, 2008

MAY

26	Mon	Memorial Day Holiday
30	Tue	Residence halls open for students - 1st session

JUNE

2	Mon	Classes begin - 1st session
3	Tue	Final date for adding courses for credit or making course changes-1st session
4	Wed	Final date for making application for comprehensive examination and application for degree for August commencement
9-12	M-Th	Preliminary examinations for doctoral students
10	Tue	Final date for removing "I" grades-1st session
11	Wed	Final date for filing field study, thesis, or dissertation with Graduate Advisory Committee-1st session
12	Thu	Final date for dropping a course or resigning from the University; a "W" grade is issued
26	Thu	Final date for filing field study, thesis or dissertation with Graduate Studies and Research
26	Thu	Final Examinations
30	Mon	Grades due on-line before 8:00 a.m.-1st session, Term ends 12:00 P.M.-1st session

SECOND SUMMER SESSION, 2008

JULY

3	Thu	Resident halls open for students-2nd session
4	Fri	Independence Day Holiday
7	Mon	Classes begin-2nd session
8	Tue	Final date for adding courses for credit or making course changes-2nd session
14-17	M-Th	Comprehensive examinations for graduate students
15	Tue	Final date for removing "I" grades-2nd session
17	Thu	Final date for dropping courses or resigning from the University; a "W" grade is issued
31	Thu	Final Examinations

AUGUST

4	Mon	Grades due on-line before 8:00 A.M.
9	Sat	Commencement, 2:00 P.M. Term ends, 12:00 Midnight

NOTE: The cafeterias, dining halls, and residence halls will be closed during the Labor Day, Thanksgiving, Mardi Gras, Spring, and Fourth of July holidays and other periods when classes are not in session.

THE ACADEMIC YEAR, 2008-2009 7

FALL SEMESTER, 2008

AUGUST

11-15	M-F	Faculty Development Activities
15	Fri	Residence halls open for students
18	Mon	Classes begin
20	Wed	Final date for adding courses for credit or making course changes

SEPTEMBER

1	Mon	Labor Day Holiday
2	Tue	Final date for making application for comprehensive examination and application for degree for December commencement
12	Fri	Final date for removing "I" grades
29-30	M-T	Mid-Term Grading

OCTOBER

1-3	W-F	Mid-Term Grading; grades due by 8:00 A.M. Friday
7	Tue	Final date for filing field study, thesis, or dissertation with Graduate Advisory Committee
9,10	Th,F	Fall Holiday
13-17	M-F	Preliminary examinations for doctoral students
22	Wed	Final date for dropping courses or resigning from the University; a "W" grades issued
23	Thu	Final date for filing field study, thesis, or dissertation with Graduate Studies and Research
27-31	M-F	Comprehensive examination for graduate students

NOVEMBER

26-28	W-F	Thanksgiving holidays, Classes close at 12:00 p.m. on Wednesday
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DECEMBER

1	Mon	Classes resume
1,2	M,Tu	Final Examinations
3	Wed	Student Study Day
4,5	Th, F	Final Examinations
9	Tue	Grades due on-line before 8:00 a.m.
13	Sat	Commencement, 2:00 p.m., Semester ends, 12:00 midnight
22	Mon	University Offices closed

WINTER SESSION, 2008-2009

DECEMBER

8	Mon	Classes begin
9	Tue	Final date for adding courses for credit or making course changes
19	Fri	Final date for dropping courses or resigning from the University; a "W" grades issued
24-31	W-W	Wintersession break (no classes)
31	Wed	New Year's Day (observed)

JANUARY

2	Fri	Classes resume
9	Fri	Final Examinations
13	Tue	Grades due on-line before 8:00 A.M.

NOTE: The cafeterias, dining halls, and residence halls will be closed during the Labor Day, Thanksgiving, Mardi Gras, Spring, and Fourth of July holidays and other periods when classes are not in session.

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SPRING SEMESTER, 2009

JANUARY

5	Wed	University Offices Open
5-9	M-F	Faculty Development Activities
9	Fri	Residence halls open for students
12	Mon	Classes begin
14	Wed	Final date for adding courses for credit or making course changes
19	Mon	Martin Luther King Day holiday
27	Tue	Final date for making application for comprehensive examination and application for degree for May commencement

FEBRUARY

8	Mon	Final date for removing "I" grades
23-25	M-W	Mardi Gras holidays
26	Thu	Classes resume, 8:00 A.M.

MARCH

2-6	M-F	Mid-term Grading; grades due by 8:00 A.M. Friday
2-6	M-F	Preliminary examinations for doctoral students
6	Fri	Final date for filing field study, thesis or dissertation with Graduate Advisory Committee
19	Thu	Final date for dropping courses or resigning from the University; a "W" grades issued
23-27	M-F	Comprehensive examinations for graduate students
30	Mon	Final date for filing field study, thesis, or dissertation with Graduate Studies and Research

APRIL

10-17	F-F	Spring holiday
20	Mon	Classes resume, 8:00 A.M.

MAY

4,5	M,Tu	Final Examinations
6	Wed	Student Study Day
7,8	Th,F	Final Examinations
12	Tue	Grades due on-line before 8:00 A.M.
16	Sat	Commencement, 2:00 P.M. Semester ends, 12:00 Midnight

SUMMER INTERSESSION, 2009

MAY

11	Mon	Classes begin
12	Tue	Final date for adding courses for credit or making course changes
18	Mon	Final date for dropping courses or resigning from the University; a "W" grade is issued
25	Mon	Memorial Day Holiday

JUNE

2	Tue	Final examinations
3	Wed	Grades due on-line before 2:00 P.M.

NOTE: The cafeterias, dining halls, and residence halls will be closed during the Labor Day, Thanksgiving, Mardi Gras, Spring, and Fourth of July holidays and other periods when classes are not in session.

SUMMER TERM, 2009

FIRST SUMMER SESSION, 2009

JUNE

2	Tue	Residence Halls open for students-1st session
3	Wed	Classes begin-1st session
4	Thu	Final date for adding courses for credit or making course changes
5	Fri	Final date for making application for comprehensive examination and application for degree for August commencement
15-18	M-Th	Preliminary examinations for doctoral students
16	Tue	Final date for removing "I" grades-1st session
17	Wed	Final date for filing field study, thesis, or dissertation with Graduate Advisory Committee-1st session
18	Tue	Final date for dropping a course or resigning from the University; a "W" grade is issued

JULY

2	Thu	Final date for filing field study, thesis or dissertation with Graduate Studies and Research-1st session
2	Thu	Final Examinations
3	Fri	Independence Day Holiday (observed)
6	Mon	Session resumes, 7:30 A.M.
6	Mon	Grades due in on-line before 8:00 A.M.-1st session Term ends 12:00 Noon-1st session

SECOND SUMMER SESSION, 2009

JULY

7	Tue	Residence Halls open for students-2nd session
8	Wed	Classes begin-2nd session
9	Thu	Final date for adding courses for credit or making course changes-2nd session
13-16	M-Th	Comprehensive examinations for graduate students
21	Tue	Final date for removing "I" grades-2nd session
23	Thu	Final date for dropping courses or resigning from the University; a "W" grade is issued

AUGUST

6	Th	Final Examinations
10	Mon	Grades due on-line before 8:00 A.M.
15	Sat	Commencement, 2:00 P.M. Term ends, 12:00 Midnight

NOTE: The cafeterias, dining halls, and residence halls will be closed during the Labor Day, Thanksgiving, Mardi Gras, Spring, and Fourth of July holidays and other periods when classes are not in session.

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GENERAL INFORMATION

PURPOSE/MISSION OF THE UNIVERSITY

The University of Louisiana at Monroe (ULM) is committed to serving as a gateway to diverse academic studies for citizens living in the urban and rural regions of the Lower Mississippi Delta. The University offers a broad array of academic and professional programs through the doctoral degree, including the state's only public Pharm.D. program. Complemented by research and service, these programs address the post-secondary educational needs of the area's citizens, business and industry.

The University ensures student learning by promoting a comprehensive context for the intellectual, scientific, cultural, technological, and economic development of a diverse student and faculty population. ULM values the continued development of mutually beneficial partnerships involving school, governmental, business, and a variety of community-based agencies.

ULM is located in Region VIII. The University is categorized as a SREB Four-Year 3 institution and as a Carnegie Master's College and University I. ULM will offer a wide range of baccalaureate programs and be committed to graduate education through the master's degree, offering graduate programs to meet regional/state needs.

HISTORICAL SKETCH OF THE UNIVERSITY

The University of Louisiana at Monroe has followed a course of vigorous growth in its transition from a junior college to an institution offering a comprehensive range of undergraduate and graduate degree programs. In September 1931, the University opened for its first session as Ouachita Parish Junior College, which was operated as part of the Ouachita Parish School System. In 1934, Louisiana State University received authority from the State Legislature to operate the facilities of the University as Northeast Center of Louisiana State University. The name of the institution was changed in 1939 to Northeast Junior College of Louisiana State University. The following year the State Legislature authorized the transfer to Louisiana State University of all lands connected with Northeast Junior College.

The 1950 Legislature approved the expansion of Northeast Junior College to a senior college, granting academic degrees. The name of the institution was changed to Northeast Louisiana State College and its control was transferred from the Louisiana State University Board of Supervisors to the State Board of Education. The School of Pharmacy was established in 1956.

The academic year 1969-70 was a milestone for ULM; in addition to awarding the first doctoral degrees, the name was changed by the 1970 Legislature to Northeast Louisiana University. The constitution adopted by the people of Louisiana in 1974 provided that the administration of state colleges and universities be changed from the Louisiana State Board of Education to the Board

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of Trustees for State Colleges and Universities effective May, 1975. This Board's name was again changed on June 8, 1995 to the University of Louisiana Board of Trustees and in 1998 to the University of Louisiana System Board of Supervisors.

The Graduate School was established in 1961 to offer master's degrees. In the Fall of 1967 the Education Specialist degree was first offered and in 1983 the Specialist in School Psychology degree was added. The Graduate School established the Doctor of Philosophy degree in Pharmacy in December of 1967. In 1993 the Office of Research and Projects and the Graduate School were merged forming the Office of Graduate Studies and Research. This reorganization was implemented to more effectively support scholarly activities of faculty and students. In 1994, Northeast Louisiana University, in cooperation with Louisiana Tech University and Grambling State University, formed the Louisiana Education Consortium, to offer the Doctor of Education degree at each campus. In the Fall of 1996, the Doctor of Philosophy in Marriage and Family Therapy was first offered. On August 27 of 1999, the University officially changed its name to the University of Louisiana at Monroe.

At the University of Louisiana System Board of Supervisors meeting on March 7, 2007, the University of Louisiana at Monroe received approval to reorganize its Office of Graduate Studies and Research. ULM separated the existing Office of Graduate Studies and Research into the Graduate School and the Office of Sponsored Programs and Research.

The Graduate School, which changed its administrative leadership position to a Dean rather than a director, redirected its focus on increasing graduate enrollment. The Office of Sponsored Programs and Research bolsters the research, instructional, creative and community service goals already prevalent at ULM.

ULM has students enrolled from every parish in Louisiana, along with many from other states and foreign countries.

LOCATION

The University of Louisiana at Monroe's campus, one of the State's most attractive, is located in the eastern part of Monroe, a city whose metropolitan area population exceeds 100,000. Beautiful Bayou DeSiard flows through the 238-acre, tree-shaded site.

The city of Monroe is located mid-way between Shreveport, Louisiana and Vicksburg, Mississippi. It is readily accessible from all sections of Louisiana and neighboring states. The University is located on U.S. Highway 80, within four blocks of U.S. Highway 165 North and two miles of Interstate 20. Monroe Regional Airport, three miles east of the University, is served by Continental Airlines, and Northwest Airline/Northwest AirlinK. Monroe city bus lines serve the University area.

Monroe's Civic Center, Strauss Playhouse, Masur Museum, West Monroe's Convention Center, and the local parks offer cultural and popular programs, including sports events of all kinds. The beautiful Ouachita River, Bayou DeSiard, and many nearby lakes offer opportunities for fishing, boating, skiing, swimming, and picnicking.

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ACCREDITATION AND PROFESSIONAL AFFILIATION

The University of Louisiana at Monroe is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award masters, educational specialist, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of the University.

As the Southern Association for Colleges and Schools' Principles of Accreditation requires, the University of Louisiana at Monroe annually assesses its programs of graduate study. The University is committed to the ongoing development of student learning assessment plans and the analysis and use of results.

Many of the departments and schools which offer graduate degrees are also accredited by specialized or professional accrediting agencies, including the following:

The teacher-preparation programs at the bachelor's, master's, and doctoral degree level are accredited by the National Council for Accreditation of Teacher Education. See specific programs of study for discipline-specific accreditations. In addition to membership in national accrediting agencies the University also holds membership in the following professional non-accrediting agencies: American Association of Colleges for Teacher Education, American Association of Colleges of Pharmacy, American Association of Colleges of Nursing, American Association of State Colleges and Universities, American Council on Education, Conference of Southern Graduate Schools, American Council for Construction Education, and Council on Collegiate Education for Nursing of the Southern Regional Education Board. The American Association of University Women, of which the University is a corporate member, admits women graduates of the University of Louisiana at Monroe to national membership.

TUITION AND REQUIRED FEES

TUITION - All students pay a general tuition based on total student credit hours of enrollment. Undergraduate students enrolled in more than six credit hours and graduate students enrolled in more than three credit hours and are classified as non-Louisiana residents under the regulations of the University of Louisiana System Board of Supervisors will pay out-of-state tuition in addition to general tuition. Courses enrolled for audit will be charged tuition the same as courses for academic credit.

BOARD ASSESSED FEES - In addition to a general tuition based on total student credit hours of enrollment, a student will pay a building use fee, academic enhancement fee and an operational fee.

UNIVERSITY ASSESSED FEES - Based on the number of hours enrolled, this charge includes the building fee, registration service fee, academic excellent fee, institutional assessment fee, Alumni Association, band travel, concert fee, Student Health Center, intramurals, University Library, student short-term loan fund, natatorium maintenance, theater productions and energy surcharge.

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STUDENT ASSESSED FEES - Students enrolled are charged fees in support of the Activity Center, Speech and Debate Team, KXUL, Natatorium, Student Government Association, Student Involvement Scholarship, Student Publications, Student Union, Union Board, Union Board Concerts, Water Ski Team, ULM Flight Team, ULM Spirit Units, and ULM Theatre Productions.

TECHNOLOGY FEE - The Student Technology Fee shall be five dollars (\$5) per credit hour for up to 12 credit hours per semester. This fee is dedicated to the acquisition, installation, maintenance, and intelligent use of state-of-the-art technology solely for the purpose of supporting and enhancing student life and learning.

ID FEE - All students are required to obtain a permanent ULM Identification Card. A validation fee of \$10 each regular semester and a \$5 fee for each summer term will be charged. Students who resign from the University are expected to keep their ID cards for use upon returning. A \$10 fee will be assessed for a replacement card.

COSTS

The University of Louisiana System Board of Supervisors may adjust tuition, fees, costs for dining plans and/or housing at any time without providing notice to students.

2008 FALL AND 2009 SPRING SEMESTERS - GRADUATE STUDENTS

	Residents	Nonresidents		
	Tuition & Required Fees	Tuition & Required Fees	Nonresident Fee	Total
9 hours	\$1,732.70*	\$1,732.70	\$2,979.00	\$ 4,711.70
8 hours	\$1,570.45	\$1,570.45	\$2,648.00	\$4,218.45
7 hours	\$1,421.20	\$1,421.20	\$2,317.00	\$3,738.20
6 hours	\$1,271.95	\$1,271.95	\$1,986.00	\$3,257.95
5 hours	\$1,122.70	\$1,122.70	\$1,655.00	\$2,777.70
4 hours	\$ 973.45	\$ 973.45	\$1,324.00	\$2,297.45
3 hours	\$ 675.75	\$ 675.75	\$ 0.00	\$ 675.75
2 hours	\$ 491.50	\$ 491.50	\$ 0.00	\$ 491.50
1 hour	\$ 342.25	\$ 342.25	\$ 0.00	\$ 342.25

ADD \$5.00 PER CREDIT HOUR UP TO \$60.00 TOTAL IF TAKING MORE THAN 9 SEMESTER HOURS

*Full time graduate assistants will be granted a tuition waiver in the amount of \$1,115.00.

NOTE: The fees above do not include the parking decal fee of \$10

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2008 SUMMER I AND II SESSIONS FEES - GRADUATE STUDENTS

Other tuition rates and fees may apply to some professional programs.

Tuition and out-of-state fee will be charged on the following schedule for each summer session.

	Residents	Nonresidents		
	Tuition & Required Fees	Tuition & Required Fees	Nonresident Fee	Total
9 hours	\$1,484.66	\$1,484.66	\$2,979.00	\$4,463.66
8 hours	\$1,336.41	\$1,336.41	\$2,648.00	\$3,984.41
7 hours	\$1,187.16	\$1,187.16	\$2,317.00	\$3,504.16
6 hours	\$1,037.91	\$1,037.91	\$1,986.00	\$3,023.91
5 hours	\$ 888.66	\$ 888.66	\$1,655.00	\$2,543.66
4 hours	\$ 739.41	\$ 739.41	\$1,324.00	\$2,063.41
3 hours	\$ 542.09*	\$ 542.09	\$ 0.00	\$ 542.09
2 hours	\$ 392.84	\$ 392.84	\$ 0.00	\$ 392.84
1 hour	\$ 243.59	\$ 243.59	\$ 0.00	\$ 243.59

ADD \$5.00 PER CREDIT HOUR UP TO \$60.00 TOTAL IF TAKING MORE THAN 9 SEMESTER HOURS

*Full time graduate assistants will be granted a tuition waiver in the amount of \$372.00.

NOTE: The fees above do not include the parking decal fee of \$10

The fees for tuition above are subject to change by action of the state legislation and approval from the University of Louisiana Board of Supervisors.

ON-CAMPUS HOUSING. Room contracts are executed on a semester basis. Charges are as follows:

Room	Semester	Summer Session
Double occupancy	\$995 - \$1,145	\$200
Private room	\$1,750 - \$2,000	\$400

Bayou Suites: \$1,685 - \$2,165

Apartments: \$2,490 - \$3,930

For more detailed information contact the Office of Residential Life at (318) 342-5240.

OTHER REGISTRATION COSTS

APPLICATION FEE - A non-refundable application fee of \$20 for U.S. students and \$30 for international students shall be assessed each person making application for admission or readmission to the University of Louisiana at Monroe. A subsequent application fee will be required when a student's enrollment is interrupted for any reason requiring a new application to the University.

ADDITIONAL COURSE FEES - In certain courses, special services, supplies, or equipment may be used. Costs for these are not normally covered by fees, tuition or departmental operating budgets and, therefore, the cost is incurred by the student. These additional charges are listed in each semester's class schedule.

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INTERNATIONAL STUDENT SERVICES FEE - All international students will be charged a fee of \$50 per regular semester and \$15 per summer term.

VEHICLE REGISTRATION FEE - Each student who uses a motor vehicle on campus must register the vehicle with the University Police Department at the time of enrollment. Students will pay \$50 for each regular semester and \$15 for each summer term.

LATE REGISTRATION FEE - Any student registering for four or more hours after the close of the regular registration period will be charged an additional registration fee of \$50.

MILITARY SCIENCE ACTIVITY FEE - Textbooks, equipment and military uniforms are furnished without deposit; however, each cadet is assessed a \$10 non-refundable activity fee to support cadet activities.

CLASS FEES - Refer to the applicable semester Schedule of Classes for various class fee charges.

OTHER EXPENSES

TEXTBOOKS. All textbooks used at the University are available at the University Bookstore located in Sandel Hall on campus. Estimated cost for fall and spring terms with a 12-hour schedule is \$350-\$400 while summer costs are estimated at \$170-\$200 with a 6-hour schedule. The Bookstore operates a buy-back system at the end of the semester when up to 50% of the original cost may be received for the book, providing there is need for that book. Visit the Bookstore website (<http://ulmbookstore.com>) to buy or reserve your books online. A good selection of other merchandise is also available through the site.

FIELD TRIP FEES. Certain courses require trips away from the campus. Specific fees for these courses will be announced at the beginning of the semester or summer session.

BINDING FEE. Graduate students will pay the necessary fees to cover the costs of binding the field study, thesis or dissertation at \$12.50 per volume and \$65 for microfilming the dissertation.

THE UNIVERSITY OF LOUISIANA AT MONROE CREDIT EXAMINATION. Students who take a credit examination pay a fee of \$10 per semester hour.

TRAFFIC TICKETS. Fines for violations of the ULM traffic and parking regulations are to be paid at La Capitol Federal Credit Union on Northeast Drive in University Commons II. For each citation not paid within ten calendar days after receiving the ticket (including Saturdays, Sundays, and holidays), a \$5 administrative fee will be charged. Fines for violations are listed in the current *ULM Vehicle/Traffic Regulations* pamphlet. Copies of these regulations are available at the University Police Department. Unpaid traffic tickets will prohibit a student's enrollment in a future semester.

STUDENT DEBT INFORMATION

Students indebted to the University will not be allowed to reenter or receive an official transcript of scholastic work. A student may be dropped from university enrollment for non-payment of fees and/or other debts 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 is drawn. The Controller's Office will notify the student of the delinquency by mail. The student is responsible for informing the Registrar of any change of address from that given at registration.

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Service and delinquent payment charges will be levied as follows:

Returned check service charge per check returned \$15.00

Short-term loan processing fee:

Processing Fee \$20.00

Delinquent student debts are subject to being assigned to the ULM Collections Department. However, if it becomes necessary to refer debts to an outside collection agency an additional collection fee will be added and collected with the original debt. Federal student loans which are delinquent beyond 180 days will be assigned to the Louisiana Department of Justice for collection and will carry the collection fee as specified in the promissory note or \$100, whichever is larger.

REFUND POLICY*

A student who resigns from the University under the conditions listed below may receive a partial reduction of **regular tuition, out-of-state tuition and student activity fees**. The student must officially resign through the Office of the Registrar not later than the fifteenth (15) day of classes in a regular semester or the seventh (7) day of classes in a summer session to be eligible for a reduction of fees. Refunds will be computed as follows:

1. A 100% refund will be made when a student completes resignation prior the first day of classes as listed in the University calendar.
2. A 90% refund will be made when a student completes resignation during the period of the first through the eighth day of classes in a regular semester or the first through the fourth day of classes in a summer session.
3. A 50% refund will be made when a student completes resignation during the period of the ninth through the fifteenth day of classes in a regular semester or the fifth through the seventh day of classes in a summer session.

Students resigning with disciplinary action pending or those suspended for disciplinary reasons are not eligible for refunds.

Refunds will be applied to any existing indebtedness to the University prior to disbursement to a student.

WARHAWK EXPRESS

Warhawk Express is a voluntary debit card system using the ULM ID to provide fast, safe, and convenient way to make purchases all over campus. It is safer than cash and more convenient than checks or credit cards. Using the ULM photo ID reduces the risk of theft.

W accounts may be closed at any time by spending the balance down to zero; otherwise, accounts roll over from semester to semester until the student graduates or resigns. Cash withdrawals cannot be made from the accounts.

After funds are deposited into the W account, the funds can be used at numerous locations on campus: Bookstore, Concession Stands, Athletic Events, Convenience Store, Cafeterias, Coffee Shop, Union Board Events, Library, Washers/Dryers, Vending Machines. When purchases are made, the remaining balance will be electronically displayed so students will always know how much money remains in their account.

PHYSICAL FACILITIES

THE UNIVERSITY LIBRARY AND CONFERENCE CENTER

The purpose of the University Library, as adopted by the Library Faculty, is to support the teaching, research, and service programs of the University. This shall be accomplished through instruction, networking, and access using the appropriate technology, acquisition, organization and maintenance of necessary information resources. The University Library shall also provide the optimum learning environment for its diverse users.

The Library is centrally located on the University campus beside the bayou. It is readily accessible from all campus housing and classroom buildings.

The resources of the library include 644,120 print volumes, including 199,356 state and federal documents, 225 journal and newspaper subscriptions, and 620,039 volumes in microformat. The Library is a member of AMIGOS, which enables cataloging and bibliographic verification and interlibrary loan via computer terminals connected on-line to the system headquarters. NEON, the Library's electronic catalog, is part of LOUIS, the Louisiana Library network. Being part of LOUIS, the library has access to EBSCOhost which provides access to over 40,000 full-text electronic journals. In addition, LOUIS provides access to other bibliographic and abstracting sources via the Web. We also provide access to more than 35,000 electronic books via netLibrary.

All are welcome to use the resources of the Library. To borrow library materials, one must have a valid ID card, be enrolled in a cooperative program offered by other institutions, become a member of the Friends of the Library organization, or acquire an Alumni Honorary Card.

Housed on open shelves, the Library's resources are located on 5 floors.

The general book collection and bound serials are interfiled by Library of Congress Call Number and housed on floors 2 - 5.

The first floor houses the reference materials and unbound serials. Also on this floor are the following service areas: Reference, Circulation, Interlibrary Loan, and Serials.

On the second floor are the uncataloged federal and state government publications, Government Publications and Media Services Departments.

The third floor houses Computer Services which maintains a 60 station personal lab.

On the fourth floor are library administration offices, Technical Services, and the Friends Bell Tower Books.

The fifth floor houses the Special Collections Department and the Monroe Garden Study League Book Room.

Thirty-eight group study rooms are available for groups of from four to eight people.

During the academic year, the Library is open from 7:30 a.m. until 12:00 midnight, Monday through Thursday; from 7:30 a.m. to 1:00 p.m. Friday; closed on Saturday and from 2:00 p.m. to 12:00 Midnight on Sunday. Holiday schedules are announced.

The Library staff includes 14 professionals and 14 paraprofessionals.

Housed on the seventh floor of the University Library is the University Conference Center which is used by the faculty, staff, students, and community to conduct seminars, conferences, lectures, and other meetings. The University Conference Center hosts important academic gatherings for the University

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community throughout the academic year. The facility is designed to provide comfortable and functional meeting areas primarily for the University academy. The Conference Center seats up to 500 people for a presentation and can accommodate a maximum of 250 for formal dining. The facility also features a full-service catering support center. Overlooking the beautiful Bayou DeSiard, the University Conference Center provides a unique addition to the facilities available at the University of Louisiana at Monroe.

CENTERS, INSTITUTES AND CLINICS

Aerospace Education Resource Center

The Center furnishes materials for the development of Aerospace Education in grades K-12. Provided are curriculum guides and teachers' manuals, background material, workbooks, classroom project guides, and aerospace career information.

College of Business Administration Dean's Office (318) 342-1100
Col. William T. Hemphill Airway & Computer Science Building 139

Center for Business and Economic Research

The Center for Business and Economic Research functions to stimulate research activities of the faculty and to serve the business and industrial populace of northeast Louisiana in solving business and economic problems of the area. The Center gathers, analyzes, interprets and disseminates statistical information resulting from investigations of potential economic significance to the Northeast area.

College of Business Administration Dean's Office (318) 342-1100
Administration Building 2-37

Weather Research Center

The Center provides weather forecasting and climate information, archives weather information for northeast Louisiana, produces a monthly climatic study, and collects national weather and climate information. It is recognized as a cooperative weather observation station for the National Weather Service and is a Class A Agricultural Weather Reporting Station.

Information such as local temperatures, humidity, rainfall, solar radiation, wind direction, speed, and barometric pressure are measured and recorded.

A telephone information service is available 24 hours a day at (318) 342-1880. Public tours of the Center can be arranged by calling (318) 342-1878.

Department of Geosciences (318) 342-1886
Hanna Hall 323

Computer Learning Center

Specialized computer training courses are offered for area businesses and the general public. Courses are all non-credit and focus on instruction in computer use with hands-on experience at the introductory and intermediate level. The

PHYSICAL FACILITIES 19

Center will also custom design specialized training classes to meet exact application needs for a specific business.

College of Business Administration Dean's Office (318) 342-1100
The Col. William T. Hemphill Airway & Computer Science Building 308

Dental Hygiene Clinics

The unit provides clinical experience for dental hygiene students. Emphasis is placed on improvement of instrumentation, radiographic skills, total patient care, and practice management skills.

Ms. Sharon Chaney, Clinical Coordinator (318) 342-1627
Caldwell Hall 124

Digital Media Studio

The Digital Media Studio is a highly specialized multimedia studio for College of Education and Human Development students. It houses ten I-Mac GS computers, scanners, digital still and video cameras, and presentation equipment. The studio, staffed by graduate students from the college, enables students to create and develop digital portfolios and multimedia presentations as well as working on Taskstream.

Dr. Thilla Sivakumaran, Director (318) 342-1270
Strauss Hall 266

Doctoral Research Center

The center provides a technology-rich environment for group and individual research, video conferencing, and media-based presentations. The area is also used for seminar and doctoral level committee meetings and consultations.

Dr. Bob N. Cage, Coordinator (318) 342-1288
Strauss 154-B

Family Resource Center (Family Life Center)

The Center provides information and materials relating to the family and family problems. Experts in home economics can share their knowledge with area families. Workshops are held to train day care center directors and workers.

The Center's programs focus primarily on preventive approaches and serves as a clearinghouse for information and services from other resources that are also available to families.

A parenting program designed to prevent child abuse is sponsored by the unit through the Louisiana Children's Trust Fund.

Emily Williamson and Peggy Buffington (318) 342-5437
Filhiol 203

Human Performance Laboratory

This laboratory serves as an integral part of the science core curriculum for undergraduate and graduate students in the Department of Kinesiology. Practical

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experience related to career choices is provided to students in the areas of teaching, coaching, wellness, cardiac rehabilitation, and other sports medicine fields.

Students and faculty use the facilities for research and the laboratory provides a comprehensive fitness testing program to the University and the community.

Dr. Kelly Friery, Director (318) 342-1306
Ewing Coliseum 50-C

Institute of Corrections and Juvenile Justice

The Institute is charged with providing continuing education and training, beyond basic jailer training, to corrections personnel in public and private corrections agencies. It also has the responsibility to initiate, coordinate, and conduct special programmatic activities related to juvenile and adult correctional populations. The jurisdiction includes Arkansas, Louisiana, and Mississippi, although personnel from other areas are invited to attend training sessions.

Department of Criminal Justice, (318) 342-1440
Stubbs 212

Institute of Gerontology

This Institute conducts research and provides in-service training for those in the fields of health and social services and maintains community service programs to meet the specialized needs of older persons. A quarterly newsletter is distributed to interested persons on current issues in aging, special events of interest, and course offerings.

The Institute further offers academic courses through a multidisciplinary spectrum to develop students for work with older adults. The unit encourages research related to the aging process.

Dr. Jay Bulot, Head, Gerontology Program, (318) 342-1430
Stubbs Hall 103

Institute of Law Enforcement

The Institute is charged with the responsibility of providing continuing education and training, beyond basic certification and re-certification training, for law enforcement personnel. Its jurisdiction includes Arkansas, Louisiana, and Mississippi. Personnel from other areas may also attend training sessions. The unit determines training needs and schedules and conducts training sessions utilizing qualified instructors.

Dr. Robert Hanser, Director, (318) 342-1443
Stubbs 208

Louisiana Drug Information Center

The Louisiana Drug and Poison Information Center is a collaborative project between the University of Louisiana at Monroe College of Pharmacy and the Louisiana State University Health Sciences Center in Shreveport. The Poison Information Center provides 24-hour information about poisons in the home and workplace. The Center is staffed by trained specialists in poison information, providing prompt assistance, especially in emergencies. The staff also has a list

PHYSICAL FACILITIES 21

of referral telephone numbers to call for drug-related suicide attempts or other calls for help.

The Center is a resource for health professionals and citizens requiring information on health effects related to occupational exposures, handling of hazardous materials, chemical spills, or any emergency chemical exposure.

The Drug Information Service provides professional consultation to pharmacists, physicians, consumers, and others throughout the state. Answers are provided for a variety of questions including those related to drug therapy, disease and general health information, and drug policy management. The Drug Information Service coordinator participates in several classes in the College of Pharmacy and provides a Drug Information Rotation for senior pharmacy students. The Drug Information Service is open Monday through Friday from 8 AM to 4:30 PM, and the Coordinator is on-call at other times.

The Emergency Poison Line for Louisiana is 1-800-256-9822.

Louisiana Institute of Toxicology

The Institute of Toxicology was established on the campus of ULM by the Louisiana Board of Regents as a state resource for information on the adverse health effects of drugs and environmental chemicals. The Institute provides comprehensive educational programs in toxicology, conducts nationally recognized toxicology research, and sponsors public forums addressing environmental issues relevant to the region and nation.

Dr. H. M. Mehendale, Director, (318) 342-1691
Sugar Hall 306

Marriage and Family Therapy Clinic

The Clinic provides therapy services in the areas of family issues which include child focused problems, marital conflicts, spousal abuse, substance abuse, mental illness, marital issues, individual issues, and divorce mediation. The Clinic serves northeast Louisiana, Arkansas and Mississippi.

Dr. Lamar Woodham, Director, (318) 362-3008
3404 Bon Aire Drive

ULM Community Counseling Center

The Center is designed to provide counseling and substance abuse counseling services to the general public. The services are provided by advanced graduate students under the supervision of a faculty member.

Dr. Charles Pryor
Strauss 306, (318) 342-1246

North Delta Regional Training Academy

The Unit was established to provide basic training for peace officers. It schedules and conducts classes to meet needs as mandated by the Police Officer Standards and Training Council (POST). The Academy coordinates with the directors of the Institute of Corrections and Juvenile Justice and the Institute of Law Enforcement and assists them in matters of mutual concern.

Mr. Donald P. Stewart, Director, (318) 362-5558
420 Wheelis Street.
West Monroe, LA 71291

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Northeast/Central Louisiana Regional Tumor Registry

The Northeast/Central Louisiana Regional Tumor Registry is responsible for abstracting every newly diagnosed cancer in the twelve parishes in northeast Louisiana and the eight parishes in central Louisiana. The Registry participates in cancer research with the state organization, and is a clinical site for Medical Information students from Louisiana Tech University.

Ms. Mary Melanie Byargeon, Director, (318) 342-1840
Chemistry and Natural Sciences Building 221

The Lynn Rowe Moore Hearing Evaluation Center

The Center serves in identifying children with hearing impairments and provides audiological testing and monitoring of hearing for medical clearance for children with external or middle ear infections.

Mrs. Norma O. Johnson, Director of Clinical Services (318) 342-1395
Brown Hall 126

Pharmaceutical Research and Technical Services Center

The Center helps identify expertise in the College of Pharmacy to assist various agencies in acquiring information and services that can be provided by the College. It assists researchers in the College with funding agencies and the University, identifies and informs the faculty of research opportunities and funding sources and assists the faculty in preparing, submitting, and administering grants and contracts.

Dr. Lamar Pritchard, Dean, College of Pharmacy, (318) 342-1600
Sugar Hall 151

Small Business Entrepreneurship Studies Center (ESC)

The ESC has the mission of encouraging and supporting entrepreneurship and small business in northeast Louisiana. This is accomplished through academic curricula for ULM students, research and development opportunities for ULM faculty, and outreach programs for potential and existing businesses in Louisiana.

ACADEMIC. The ESC sponsors undergraduate programs and graduate coursework in entrepreneurship and small business administration. Undergraduate students can pursue a BBA in Entrepreneurship or a minor in entrepreneurship. Graduate students have the opportunity to take entrepreneurship courses as a part of their graduate studies.

RESEARCH. The ESC encourages and supports faculty development, research and publication in the area of entrepreneurship and small business.

OUTREACH. The ESC sponsors two major outreach programs, the ULM Small Business Development Center and the ULM Small Business Institute.

Small Business Development Center (SBDC)

The SBDC provides management and technical assistance to entrepreneurs and owners of existing businesses in northeast Louisiana through continuing education, one-on-one counseling and technical assistance. Additionally, the Center serves as an information resource center.

PHYSICAL FACILITIES 23

Workshops and seminars keep small businesses informed on current events and changing trends in the business world. The Center houses business publications, statistical data, census figures, and start-up manuals. A computerized information base with a national networking capacity is also maintained.

Small Business Institute (SBI)

The SBI provides small business owners with volunteer consulting services from ULM graduate students and seniors under the direction of qualified ULM staff and faculty. The primary objectives are to provide high quality management and technical assistance as well as provide to students an opportunity to apply knowledge gained in the classroom. Consultants are available in the areas of financial strategy development, advertising strategy development, valuing going concerns, marketing research, marketing strategy development, production management, bookkeeping systems, and logo development.

Dr. Paul Dunn, Director, (318) 342-1224
Administration Building 2-123

Soil-Plant Analysis Laboratory

The Laboratory provides soil, plant, and water analysis. Tests can be run for pesticide and herbicide residues, soil fertility, nutrients in plant tissue samples, seed germination and vigor, lime content, and fertilizer analysis. The Laboratory also performs grain and forage analysis, microbiological testing, and wastewater testing.

Environmental analysis includes work done for the oil and gas industry, including work on field pit closures, leaks in underground gasoline storage tanks, and Environmental Protection Agency Priority Pollutants Testing.

The unit serves the industrial and agricultural communities in northeast Louisiana and is the only soil and plant analysis lab located on a university campus in north Louisiana to offer a full range of such services.

Ms. Debbie Brotherton, Director, (318) 342-1948
Chemistry and Natural Sciences Building 117

Speech and Hearing Clinic

The Clinic provides quality speech, language, and hearing services to children and adults throughout northeast Louisiana. It allows students to conduct applied clinical research and complements academic instruction which prepares students to enter practice in diagnosis and management as speech-language pathologists. The students' clinical experience is supervised by ASUA certified personnel. Interested individuals may contact the clinic for additional information.

MUSEUMS AND GALLERIES

Bry Art Gallery

Art exhibits change monthly and feature all types of studio media including paints, drawings, prints, sculpture, photography, and ceramics. Exhibits are primarily by professional artists with some students shows throughout the year.

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The Gallery features an art show by area children each May. Open weekdays 8:00 a.m. to 4:30 p.m. Closed weekends and holidays. Admission is free.

Mr. Robert G. Ward, Director, (318) 342-1375
First Floor, Bry Hall

Museum of Natural History

The museum houses extensive research collections in the biological sciences and geological and archeological exhibits. It comprises three divisions, Botany, Geosciences and Zoology. Museum housed in Sandel Hall, Third Floor.

The Botany Division features an herbarium of more than 470,000 dried plant specimens. The herbarium is the largest in the state and one of the fastest growing in the nation. Primarily for a historical record, the herbarium offers research and teaching functions and free identification of local plant specimens.

Open by appointment. Closed on weekends and holidays. Admission is free.

Department of Biology (318) 342-1790

The Geosciences Division houses Native American artifacts, material from the south Pacific, and geological and fossil specimens from many areas, especially Louisiana. Closed weekends and holidays except by appointment.

Department of Geosciences, (318) 342-1878
Curators for Division
Dr. Gary L. Stringer and Dr. Joe Saunders

The Zoology Division houses a nationally ranked collection of fishes. With more than 12 million specimens, it rivals research collections at Cornell, the University of Michigan, Harvard, and Tulane. It also features large collections of reptiles and amphibians, primarily from the southern United States and Mexico.

Open by appointment. School tours are welcome. Admission is free.

Department of Biology (318) 342-1790

Wesley Art Gallery

This is the second oldest art gallery in Monroe. Each month it features a different one-person art exhibit, usually by ULM student artists. Exhibited are all types of studio media such as paints, drawings, prints, sculpture, photography, ceramics, and weaving. In 1965, the Gallery began building a permanent collection which features at least one art work from each year since. The permanent collection provides a history of ULM in the various art forms.

Open daily including holidays 8:00 a.m. to 10:00 p.m. Admission is free.

112 Delano Drive (next to Strauss Hall)
Telephone (318) 343-2944

CAMPUS HOUSING

ULM has a total of three residence halls. Also, there is the Bayou Village Apartments and the Bayou Suites, which are fully-furnished.

PHYSICAL FACILITIES 25

Ouachita Hall for women students is located on the west side of Bayou DeSiard. Madison Hall for male students is also located on the west side of Bayou DeSiard. Masur Hall, our co-ed hall, is located on the east side of Bayou DeSiard.

Two dining facilities are located on campus. Schulze Cafeteria is located on the east side of Bayou DeSiard. The Food Court is located in the Student Union Building on the west side of the bayou.

SERVICES FOR STUDENTS WITH SPECIAL NEEDS

The University Counseling Center offers a number of opportunities to students with special needs. Whether a physical limitation or a learning disability, the Center works with the student to eliminate or lessen these obstacles to their education. Services of the Center include the provision of support to students with permanent or temporary exceptionalities, individual counseling, assistance with academic accommodation recommendations to students and faculty, in addition to heightening the awareness of the issues associated with special needs obstacles to name but a few. Housing accommodations as well as designated parking for these students are facilitated by this and other departments on the campus.

PARKING PROCEDURES FOR STUDENTS WITH SPECIAL NEEDS

Students with special needs are provided accommodated parking on the university campus. The student, upon documentation of the special need, is assigned a Special Needs Parking Pass by the University Police Department. Procedures to secure a Special Needs Pass can be obtained at the University Counseling Center.

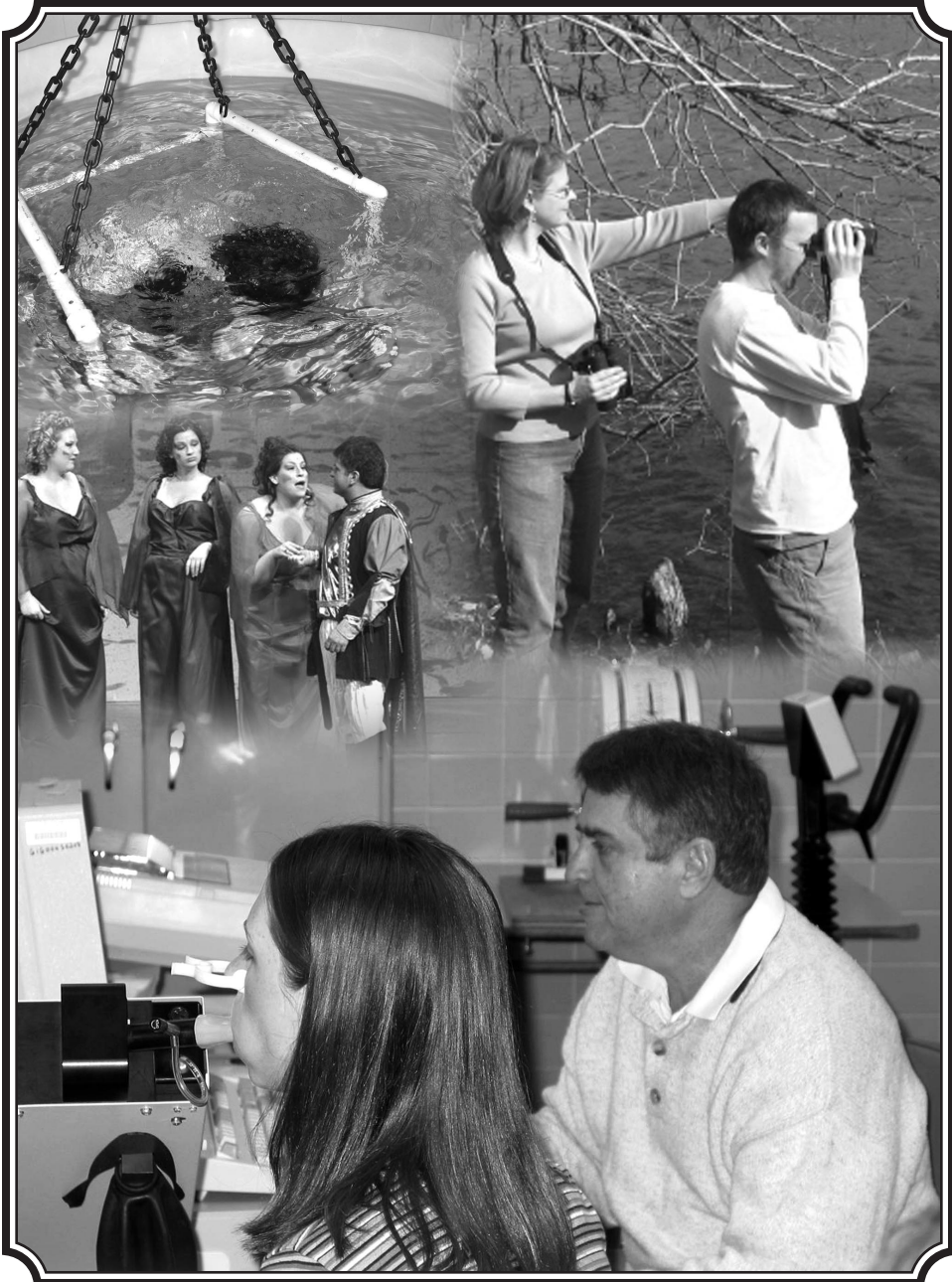
NON-DISCRIMINATION POLICY

The University of Louisiana at Monroe recognizes that members of the University community represent different groups according to sex, color, creed, national origin, and physical or mental disability. The University further recognizes that, in a pluralistic society such as ours, these differences must be recognized and respected by all who intend to be a part of the University community.

It is not the intent of the University to dictate feelings or to mandate how individuals should personally interact with others. It is, however, the intent of the University that awareness of individual and group rights according to sex, race, color, creed, national origin, and physical or mental disability be regarded as important to the education of its students. Our ability to work in a pluralistic society demands no less.

It is with this in mind that the University does not permit any actions, including verbal or written statements, that discriminate against an individual or group on the basis of sex, race, color, creed, national origin, or physical or mental disability. Any action is a violation of the Student Code of Conduct. Complaints of discrimination should be made orally and in writing to the appropriate University Administrator.

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GRADUATE SCHOOL REGULATIONS 27

GRADUATE DEGREE PROGRAMS

28 THE UNIVERSITY OF LOUISIANA AT MONROE**GRADUATE SCHOOL REGULATIONS****POLICIES AND PURPOSES**

The Graduate School was established to provide opportunities for improving professional competency through advanced study and research, for promoting the welfare of the society in general by developing a broader, deeper understanding of human knowledge, and for preparing for further graduate study. To implement such opportunities, the University offers the student the daily use of its library and laboratories and interaction with experienced scholars. Graduate students assume significant responsibility in selecting a specialized program that will best meet their particular needs.

ADMINISTRATION**The Graduate Council**

The Graduate Council was formed to enable a cadre of faculty with significant experience and achievement in graduate education to assist in the review and implementation of campus graduate studies issues. Working with the Dean of the Graduate School, the Graduate Council serves to assess and implement initiatives that foster successful graduate education involving faculty and students.

Members of the Graduate Council

College of Arts & Sciences

Dr. Mark Arant
Dr. Gordon Harvey, Council Chair
Dr. Kim Marie Tolson

College of Business Administration

Dr. Donna Luse
Dr. Laurie Babin
Dr. Thomas Hodge

College of Education and Human Development

Dr. Glenda Holland
Dr. Bob Cage
Dr. Mark Doherty, Council Secretary

College of Health Sciences

Dr. Judy Fellows

College of Pharmacy

Dr. Sharon Meyer
Dr. Paul Sylvester

Dr. Lisa Colvin (ex-officio), Interim Dean, Graduate Studies and Research

GRADUATE SCHOOL REGULATIONS 29

The Research Council

The Research Council was formed to enable a cadre of faculty with significant research experience and achievement to assist in the review and implementation of campus research issues. Working with the Dean of the Graduate School, the Research Council serves to assess and implement initiatives which foster successful faculty and student research endeavors.

Members of the Research Council

College of Arts & Sciences

Dr. Stephen Fox
Dr. Ann Finley
Dr. Harold Williamson

College of Business Administration

Dr. Tammy Parker
Dr. Ken Clow

College of Education and Human Development

Dr. Jean Low
Dr. Joe McGahan

College of Health Sciences

Dr. Florencetta Gibson
Dr. Linda Bryan

College of Pharmacy

Dr. Hari Mehendale
Dr. Girish Shah, Council Chair

Dr. Lisa Colvin (ex-officio), Interim Dean, Graduate Studies and Research
Mr. Don Smith (ex-officio)
Ms. Ivona Jukic (ex-officio)

GRADUATE FACULTY

Graduate faculty status is awarded to those members of the faculty who have been nominated by the appropriate academic department head or director and approved by the Graduate Council, the Dean of the Graduate School, and the Vice President for Academic Affairs.

Initial appointment to the Graduate Faculty shall be for a five-year period, with subsequent periodic review thereafter.

There are two types of membership: Member and Associate Member. Qualifications for graduate faculty status are as follows:

Member—(a) earned terminal degree in field of specialization, (b) evidence of scholarly and professional activities, and appropriate graduate teaching and advising experience.

A Member is permitted to teach graduate courses, serve as a member of graduate advisory committees, act as major professor, and direct field studies, theses, and dissertations.

Associate—(a) appropriate graduate teaching and advising experience; (b) adjunct or visiting professor, who has a record of distinguished service; or faculty

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member who meets a special departmental or school need, and who is judged by the Graduate Council, the Dean of the Graduate School, and the Vice President for Academic Affairs to be qualified for a specific function.

An Associate Member may teach graduate level courses and/or may serve as a member of graduate committees. An Associate Member may not direct field studies, theses, or dissertations, and may not serve as major professor on a graduate advisory committee.

Graduate faculty members are listed in this document along with additional graduate faculty information. Associate Members are identified with an asterisk preceding their name.

DEGREES

Degrees may be earned in the majors listed below. Information on each program can be found in the **Fields of Study** section beginning on page 47.

Master of Arts (M.A.)

Communication
Criminal Justice
English
Gerontology
History
Marriage and Family Therapy
Substance Abuse Counseling

Master of Arts in Teaching (M.A.T. [Alternative Certification])

Elementary Education Grades 1-5
Multiple Levels GR K-12
Secondary Education Grades 6-12
Special Education Mild/Moderate Grades 1-12

Master of Business Administration (M.B.A.)

Business Administration

Master of Education (M.Ed.)

Counseling
Curriculum and Instruction
Educational Leadership
Educational Technology Leadership

Master of Music (M.M.)

Music

Master of Science (M.S.)

Biology
Exercise Science
Pharmaceutical Sciences
Psychology
Speech-Language Pathology

Specialist in School Psychology (S.S.P.)

School Psychology

GRADUATE SCHOOL REGULATIONS 31

Doctor of Education (Ed.D.)
Curriculum and Instruction
Educational Leadership

Doctor of Philosophy (Ph.D.)
Marriage and Family Therapy
Pharmacy

Professional Degrees
Doctor of Pharmacy

A Certificate in Gerontological Studies is offered through the Department of Gerontology, Sociology and Political Science. Program requirements may be found in the **Fields of Study** section for that department.

STUDENT RESPONSIBILITY

All universities establish certain requirements, which must be met before a degree is granted. These requirements concern courses, majors and minors, and residence. Major professors, department heads/directors, and deans will help a student meet these requirements, **but the student is responsible for fulfilling them**. Upon completion of the course work, personnel of the University will determine whether or not the student receives a degree. If the requirements have not been met, the degree will not be awarded until such time as they have been met. For this reason it is important for each student to be acquainted with the degree requirements and to keep informed while enrolled at the University.

Also, it is necessary in the general administration of the University to establish broad policies and to lay down certain regulations and procedures by which they may be carried out. It is important that a student understand the policies and know the regulations and procedures one is expected to follow.

The catalog is presented, therefore, not only to enable prospective students and others to learn about the University of Louisiana at Monroe, but also to state policies, requirements, regulations, and procedures in such form as will help the student progress through school. Graduate students are expected to assume responsibility for becoming fully acquainted with and abiding by the regulations and requirements of the Graduate School.

PROCEDURE FOR APPLYING FOR ADMISSION TO THE GRADUATE SCHOOL

All correspondence concerning admission to the Graduate School should be directed to the Graduate School.

An applicant for admission to the Graduate School must:

1. satisfy all general admission requirements of the University;
2. hold a bachelor's degree from a regionally accredited college or university earned under residence and credit conditions substantially equivalent to those required by the University of Louisiana at Monroe (international students see page 33 of the current Graduate Catalog);
3. submit to the Graduate School a complete and official transcript from **each** college or university attended;
4. submit the results of the Graduate Record Examination (GRE) General Test. Applicants for the master's degree in business administration will

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submit results of the Graduate Management Admission Test (GMAT). GRE and GMAT scores older than five years will not be accepted. Admission to the Graduate School does not automatically admit an applicant to a degree program. Admission requirements to specific degree programs vary and some require the test scores listed above as well as specific undergraduate/graduate grade point averages, satisfactory Test of English as a Foreign Language (TOEFL) score, auditions, interviews, committee reviews, and other requirements. No particular level of academic performance or test score will guarantee acceptance or rejection to any or all degree program(s).

The GRE and TOEFL tests, administered by the Educational Testing Service, are scheduled at the University of Louisiana at Monroe and various centers throughout the United States as well as internationally on regularly established dates. Applications may be obtained from the Educational Testing Service, Princeton, New Jersey, from the Director of Testing, or from the Office of Graduate Studies and Research at the University of Louisiana at Monroe and must be returned to Princeton according to the calendar published by Educational Testing Service.

New international students are tested for English language proficiency before classes begin. An international student may apply for exemption from the ULM English proficiency test if the student has attended four academic years and graduated from a U.S. regionally accredited college or university, or has submitted an official minimum TOEFL score of 500, or has submitted a satisfactory passing score in English language on the University of Cambridge/London G.C.E. examination, or a score of 85 on the Michigan Test.

The application for admission to Graduate School and all supporting documents should be on file 30 days prior to registration. Any student submitting credentials less than 30 days in advance of registration should contact the Graduate School concerning appropriate action taken on the application for admission. Provisional status to some programs may be granted applicants who are in the process of obtaining official transcripts or Graduate Record Examination(GRE)/Graduate Management Admission Test (GMAT) scores.

An applicant who does not enroll in the term for which he/she is submitting an application will be permitted registration for no more than six terms (first and second summer sessions considered one term). After six terms of no enrollment, applicant will be required to reapply and submit recent credentials.

Applicants who enroll and maintain academic eligibility will remain eligible for registration until there is a lapse of enrollment for six consecutive terms or until graduation, whichever occurs first.

GENERAL REQUIREMENTS FOR ADMISSION TO THE GRADUATE SCHOOL

REGULAR STATUS. Applicants may be admitted to the Graduate School on regular status if they have earned a baccalaureate degree from a regionally accredited institution with a grade point average (GPA) of 2.5 on all undergraduate work pursued based on a 4.0 scale, have met undergraduate prerequisites for their major and minor fields, have met departmental admission requirements, and have submitted satisfactory GRE/GMAT scores. The minimum requirements for regular status are ALL of the following:

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- Minimum GRE (verbal + quantitative) score of 750 or GMAT of 450 (MBA only)
- Minimum cumulative GPA of 2.5 (based on a 4.0 scale)
- Minimum formula score of 1875 (GPA * GRE) or 1000 (GPA * 200 + GMAT [see page 62])

College/program admission requirements may be higher.

CONDITIONAL STATUS. Applicants may be admitted on conditional status if they have undergraduate deficiencies and/or they are not qualified for admission to regular status because of their GPA and/or GRE/GMAT scores. In the latter case, the minimum requirements for conditional status are ALL of the following:

- Minimum cumulative GPA of 2.2 (based on a 4.0 scale)
- Minimum formula score of 1650 (cumulative GPA * GRE) or 1050 (GPA [see page 62] * 200 + GMAT [see page 62])

Some colleges/programs only allow conditional status for undergraduate deficiencies.

For applicants who are admitted on conditional status because they did not meet GPA and/or GRE/GMAT requirements for regular admission, the conditional status will be removed after the student earns a minimum of 12 semester hours of graduate credit at the University of Louisiana at Monroe with a 3.0 GPA and no grade lower than C. If these applicants fail to meet the requirements for removal of conditional status after earning 12 hours of graduate credit, they will be denied continuance in graduate courses.

PROVISIONAL STATUS. Provisional status is given to applicants who are in the process of obtaining official transcripts or GRE/GMAT scores. The minimum requirement for taking graduate courses in provisional status is a GPA of 2.5 (based on a 4.0 scale). No more than six hours can be taken in provisional status.

NON-DEGREE STATUS. Graduates of accredited colleges and universities who wish to enroll in selected course offerings of the Graduate School but not pursue a formal degree program may be considered for admission as non-degree students. The minimum requirement for taking graduate courses in non-degree status is a GPA of 2.5 (based on a 4.0 scale). Some colleges/programs have higher requirements for taking courses in non-degree status.

Students in non-degree status, who apply for admission to a graduate program, must meet the same GPA and GRE/GMAT requirements stated for an applicant seeking initial entry to that graduate program.

CREDIT EARNED IN NON-DEGREE OR PROVISIONAL ADMISSION STATUS

A maximum of six semester hours of graduate credit earned in non-degree or provisional admission status, including credit earned at ULM and approvable transfer credit, may be counted toward a master's, a specialist, or a doctoral degree.

ADMISSION OF TRANSFER STUDENTS

Students who have attended other graduate schools must meet both of the following additional requirements for admission to The University of Louisiana at Monroe:

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- Be eligible for readmission at the college or university from which they transfer.
- Have no grade lower than C in graduate work at the college or university from which they transfer.

It is the responsibility of the student to inform ULM of any attendance at other institutions before eligibility is determined and the Graduate School has issued the official acceptance letter for graduate studies. Students who have been denied further continuance in graduate school at another institution are not eligible to earn graduate credit at the University of Louisiana at Monroe. Should a student fail to inform ULM of ineligibility and earn graduate credits under these circumstances, those graduate credits earned will be voided.

ADMISSION OF INTERNATIONAL STUDENTS

International students must submit the following application materials before eligibility for admission can be determined:

1. Application for admission with the application fee attached
2. Financial statement signed by student and sponsor
3. Proof of Immunization Form
4. Official TOEFL score of no less than 500 (paper-based test) or 173 (computer-based test)
5. Complete and official transcripts (native language and English translation) of all university work (Certificate or degree earned must be equivalent to a U.S. bachelors - to be determined by the Graduate School)
6. Official GRE or GMAT scores.

All above materials must be submitted before the following deadlines: When applying for Fall Semester, March 1; for Spring Semester, August 1; for Summer Term, January 2. Eligibility is determined by the Dean of the Graduate School.

SECOND MASTER'S DEGREE

A student seeking a second master's degree may be allowed to apply from a previous or simultaneous graduate degree a maximum of one-half the credits required for the second degree. All Graduate School regulations apply.

GRADUATE CREDIT FOR COURSES DESIGNATED: FOR UNDERGRADUATES AND GRADUATES

To receive graduate credit for a course designated "For Undergraduates and Graduates," a student must be in graduate admission status at the time credit is earned in the course. Credit earned in undergraduate admission status cannot be changed to graduate credit.

GRADUATE CREDIT FOR OUTSTANDING ULM SENIORS

Upon written recommendation of the academic department head/director and dean and with the approval of the Director, a senior at the undergraduate level who has a minimum average of B on all work pursued and who lacks not more than nine hours (six for summer graduation) for the completion of a baccalaureate

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degree may register for a maximum of six semester hours (four in summer term) of graduate credit in courses numbered below 500, provided that (1) the total scheduled hours shall not exceed fifteen (ten in summer term), (2) prior approval has been given by the student's academic dean, and (3) failure to receive a bachelor's degree at the close of the semester (or summer term) shall cause forfeiture of graduate credit for any of the courses taken.

ELIGIBILITY TO REMAIN IN THE GRADUATE SCHOOL

The Dean of the Graduate School will deny further continuance in graduate work to any graduate student who meets one or more of the following conditions:

- Any grade lower than C
- a graduate GPA that falls below 3.0 for two consecutive semesters.

APPEALS FOR ADMISSION OR READMISSION

A graduate student who is denied admission to or further continuance in the Graduate School or a specific graduate degree program may appeal to the Graduate Council for admission or readmission. The following supportive information must be provided:

1. A personal letter of appeal from the student. In this letter, the student should build his/her case for admission/readmission.
2. The student's scores from the Graduate Record Examination (General Test) or the Graduate Management Admission Test (MBA only).
3. Three letters of support from those (especially professors) who can attest to the student's scholarly ability and potential.
4. Any other evidence of professional competence which will enhance the student's appeal.

For further information please contact the Graduate School or the Coordinator of Graduate Studies for the particular major and college involved.

CREDIT HOUR SYSTEM AND COURSE NUMBERING

The value of each course of instruction is stated in terms of semester hours. Courses are normally numbered according to the following system: 100 to 199, freshman; 200 to 299, sophomore; 300 to 399, junior; 400 to 499, senior; 500 to 599, graduate; 600 to 699, courses beyond the Master's level; 700 to 799, Doctor of Education courses coordinated by the Louisiana Education Consortium (LEC) and Doctor of Philosophy in Marriage and Family Therapy. Courses for the Ph.D. in pharmacy range from 400 to 699. Certain courses in the 400 level are accepted for graduate credit, where so indicated. Graduate status is required for graduate credit in these courses.

COURSE LOAD

A full-time graduate student may schedule from nine to eighteen semester hours during a regular semester. A full-time graduate student in the College of Pharmacy may schedule from twelve to eighteen semester hours during a regular semester. A part-time student may schedule limited course work depending upon

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the time which can be devoted to graduate study. A graduate student who has a graduate assistantship or a graduate work-study position must have the approval of the major professor and the Dean of the Graduate School to enroll in a course load exceeding fifteen semester hours during a regular semester. The maximum course load for a student registered for graduate study during any single summer session is seven semester hours; the minimum for a full-time student is four semester hours.

GRADING SYSTEM

Grades and the grading process are major components of a university's academic standards. An important professional obligation of university faculty is the determination of grades. Grades accomplish two essential purposes: (1) they communicate to the academic community and to the community at large a certified level of academic achievement, and (2) they provide realistic and reliable feedback for students to use in evaluating individual progress and making decisions about future behavior.

Prerequisites to effective grading are (1) appropriate scope, depth, and degree of difficulty for each course; (2) controls to ensure that students have proper academic qualifications for enrolling in each course; and (3) adequate measures of performance. Taking into account all students who would properly and typically enroll in a given course (not just those in one course), faculty members assign grades according to the following general guidelines:

- A — EXCELLENT
- B — AVERAGE
- C — BELOW AVERAGE
- D & F — FAILURE

The grades A (Excellent), B (Average), C (Below Average), D & F (Failure), AU (Audit does not imply class attendance), R (Repeated), W (Withdrew), I (Incomplete), IP (In Progress), CR (Credit), and NC (No Credit) are given to indicate the quality or status of a student's work.

Each semester hour with the grade of D carries one quality point; each semester hour with the grade of C, two quality points; each semester hour with the grade of B, three quality points; and each semester hour with the grade of A, four quality points. Grades of F and I carry no quality points. Therefore, a C average is a 2.00 average. An I grade is computed as an F grade unless changed to a final passing grade. Also, + and - grade designations are not recognized.

NOTE: Only grades of A, B, or C are considered acceptable at the graduate level. To remain eligible for graduate school, a graduate student must maintain a 3.0 graduate GPA and no grade lower than C.

Courses for graduate credit may not be repeated without prior approval of the Dean of the Graduate School. When a course is repeated, both grades will be counted in determining the grade point average.

Work which is of satisfactory quality but which, because of circumstances beyond the student's control, is not complete, may be marked I (Incomplete). The deficiency must be met within the first month of the next regular semester or within the first two weeks of either summer term of attendance (whichever comes first). If the work cannot be completed within the stated time frame, a time extension may not be granted without prior approval of the Dean of the Graduate School. Instructors should not allow graduate students to complete work for a graduate course to remove an overdue I grade without prior approval of the Dean

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of the Graduate School. I grades are removed only by completion of the course work, not by repeating the course. I grades are computed as F grades, unless changed to a final passing grade. If the student does not resume studies either at the University or elsewhere within a calendar year following the semester or summer session for which the I grade was recorded, the I grade cannot be removed. This requirement does not apply for field study, thesis, dissertation, directed study, independent research, or recital courses.

Grades (other than I grades and IP) that have been submitted to the Registrar's Office can be changed only by a letter of explanation certifying that an error has been made by the instructor. This certification of error will not be valid unless approved by the instructor's department head and the instructor's academic dean. A request for a final grade change must be initiated by the instructor within 30 days after the end of the semester or term in which the grade was earned.

Instructors are encouraged to abide by the University Calendar by offering courses within the established enrollment period dates to avoid the issuance of IP grades. Instructors must discuss in advance with the Registrar the reasons for the award of IP grades. Valid reasons for considering the issuance of IP grades may be when an instructor anticipates that either the nature of a specific graduate or undergraduate course or the expectations of all students (not an individual student) cannot be completed within the established enrollment period dates. Letter grades must be awarded by an agreed upon deadline between the instructor and the Registrar in the event that IP grades are issued.

GRADE REPORTS

End-of-the-semester grades are generally available after the end of the fourth working day of each enrollment period. Students should visit the ARROW website (arrow.ulm.edu) to view grade results.

ADDRESS CHANGE

A student must provide a local and permanent address at the time of admission to the University. Local and permanent address changes must be reported to the Registrar's Office on the appropriate form. A student is responsible for the consequences of all communications sent to the address on file in the Registrar's Office (e.g., classes dropped for non-payment of tuition, denied further continuance in graduate work on grade report or transcript).

NAME CHANGE

A student who wishes to change a name because of either divorce or marriage must present the original marriage license or divorce decree indicating the desired name, along with a change of name form to the Registrar's Office. Other name or characteristic changes are made upon the presentation of a court order.

AUDITING COURSES

Students may be admitted to regular classes for audit by meeting admission requirements, and by paying an audit fee. An audit may not be changed to credit, or vice versa, after registration closes. Students auditing courses will not receive

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credit, nor will they be permitted to take credit examination (departmental exams) on work audited. Credit hours for courses audited are figured in fee assessment but not for certification of full-time status. Any student using fee waiver cannot register for audit.

DROPPING AND ADDING COURSES

Students will not be admitted to any class unless the instructor has received a roster or notice indicating proper registration from the Registrar.

Students will not be permitted to drop or add courses or make section changes after their registration is complete except on the advice and consent of the student's major professor, the head of the department in which the student is registered, and the head of the department in which the course or courses affected are offered.

A schedule change slip must be used, and the proposed change is not official until the slip is completed with the proper approvals indicated and filed with the Registrar's Office. A grade of F will be assigned to a student who withdraws from a course at any time without following this procedure. With permission, a student may drop any subject with a notation of W (withdrawn from class) within the time limit specified in the University calendar. Withdrawals during that period carry no penalties.

COURSE DROP AND RESIGNATION POLICY

Students may drop courses or may resign (when class load drops to zero hours) from the institution with grades of W prior to a date specified in the official University Calendar. After that specified date, students may not drop a course or resign. Students who have extraordinary cases with extenuating circumstances may submit a letter of appeal, along with documentation to substantiate the case to the Dean of the Graduate School. Extraordinary cases do not include dissatisfaction with an anticipated grade or the decision to change a major.

Approval of an appeal for dropping a course or resigning after the published date may be granted by the Dean of the Graduate School for reasons stated below and only if the reason can be officially documented to show direct due cause. If approval to drop a course is granted, the student must also have been passing the course immediately prior to the hardship, and must have applied for the approval immediately after the hardship or illness ended. The grade assigned shall be a W. If the Director allows the student to resign, a W grade shall be assigned in all courses. If the appeal is approved, the Director will notify the instructor and the registrar. Examples of appealable cases are as follows:

1. Illness/Injury—The student must provide a letter on official stationery from the attending physician stating that the illness or injury will render the student unable to complete the course, or will cause the student to miss a significant number of days so as to make it difficult to complete the course. A hospital bill may also be used.
2. Death of an immediate family member which caused undue hardship and renders the student incapable of completing the course—The student must provide a copy of the death certificate, obituary stating relationship to the deceased, or letter from the attending clergy.
3. Natural disaster or exceptional traumatic event (documentation will be required)—The student must provide a written explanation of extenuating circumstances providing this event causes the student undue hardships.

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4. National Defense—The student must provide a copy of official military orders.

Grades of F will be assigned to students who do not complete the enrollment period and who have not officially dropped their courses or resigned.

An appeal for a change in official academic records must be made no later than 30 days after the end of the semester or term in which the alleged error in academic records occurred.

SEQUENCE AND PROGRAM OF STUDY FOR GRADUATE DEGREES

Observing the following numbered sequence will assure a measured progression of events, designed to maintain proper advisory and administrative procedure and assist the student in the achievement of important academic and career goals.

1. When a student is admitted to a specific degree program, the Dean of the Graduate School, upon the recommendation of the academic department head/director of the unit in which the student plans to major, will appoint a major professor who will assist in planning the student's graduate program.
2. After the student has been admitted on a conditional or regular basis to a specific degree program, the Dean of the Graduate School, upon the recommendation of the major professor, will appoint a graduate advisory committee, composed of the student's major professor and one, two, or three faculty members representing the principal fields of study to be included in the degree plan. Graduate advisory committees for students writing a field study or thesis must be composed of a minimum of three members.
3. After the student has earned approximately twelve semester hours, under the direction of the major professor, the student and the graduate advisory committee will prepare a formal degree plan, subject to the approval of the Dean of the Graduate School. A field study or thesis, if required, will be submitted to the student's graduate advisory committee for approval, then to the Dean of the Graduate School for final approval.

Under certain circumstances, it may be necessary or desirable to reconstruct a graduate advisory committee. When a graduate advisory committee is to be reconstructed, the academic unit administrator will make the recommendation for any change in the major professor and the major professor will make the recommendation, through the academic unit administrator, for changing other members of the committee.

The minimum credit requirement for the master's degree is 30 to 66 semester hours of graduate work, not more than six of which may be allowed for the field study or thesis requirement. At least one-half of the courses required in the major area and one-half of the overall program must be courses for which graduate credit is earned and identified "For Graduates Only."

Regulations governing sequence and course of study requirements for doctoral programs are detailed within program descriptions for individual doctoral programs of study.

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REQUIREMENTS FOR GRADUATE DEGREES

Degree requirements are usually completed under the policies and regulations listed in the Graduate Catalog in effect at the time of admission. However, and with departmental approval, the Graduate Catalog in effect during the semester in which degree requirements are completed may be used.

All students seeking an advanced degree must adhere to the regulations discussed in this section. Departments may have additional specific degree requirements that students must meet to receive an advanced degree.

Each student who expects to take comprehensive examinations and/or graduate must file an application to take the comprehensive examination and/or to graduate with the Dean of the Graduate School by the date indicated in the University Calendar for the semester or summer term in which the degree is to be awarded.

To fulfill the course requirements for a master's degree, the candidate shall present an average of not less than B on all graduate work pursued and all work in the major field, with no grade lower than C and not more than six semester hours of credit with a grade of C.

The candidate must pass a comprehensive final examination in both the major and related areas or minor. This examination may be written or both oral and written. Comprehensive examinations are not required of candidates for the Master of Business Administration degree or Master of Education in Educational Leadership which requires a passing score on the SLLA Examination.

A candidate for the Master of Education or Master of Music degree with a specialty area in Music Education must hold a valid teacher's certificate issued by the Louisiana State Department of Education or its equivalent. The only exceptions to this regulation are the candidates for the Master of Education degree with majors in Counseling and Non-School Emphasis in Educational Technology Leadership.

Regulations governing degree requirements for doctoral programs are detailed within program descriptions for individual doctoral programs of study.

All candidates who are to receive degrees are required to be present at commencement exercises for the conferring of the degree unless the Dean of the Graduate School is notified, in writing, to the contrary.

TRANSFER OF CREDIT AND RESIDENCE REQUIREMENTS

MASTER'S DEGREES

Students must complete at least two-thirds of the hours required for a master's degree through courses offered by the University of Louisiana at Monroe. Transfer credit may not total more than one-third of the master's degree program. With the approval of the student's graduate advisory committee and the Dean of the Graduate School, a maximum of six semester hours of C grades earned at ULM may be transferred from one program to another or from non-degree status to a degree program. Transfer credit must meet the following requirements:

1. Credit must be earned in residence at a regionally accredited college or university.
2. Credit must be accepted as applicable to the student's degree program.
3. Grade of B or better must be earned.
4. Credit must meet six-year time limit for master's degree program.

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Transfer credit must be presented and accepted during the first semester or summer term upon entering or re-entering the University of Louisiana at Monroe. Final authorization of transferred credit will be made by the Dean of the Graduate School upon recommendation of the student's advisory committee.

After enrollment at ULM, a student may earn and transfer graduate credit from other institutions, provided prior approval of the course or courses is obtained from the student's major professor and the Director of Graduate Studies and Research. Transfer credit shall not reduce the minimum residence requirements.

Transfer credit for students in the Master of Business Administration program is ordinarily limited to six semester hours earned at another AACSB accredited school provided that such transfer credit is appropriate and that a letter grade of B or better has been earned.

A student enrolled in the Master of Arts degree program in Marriage and Family Therapy must enroll as a full time student for two consecutive semesters, excluding summer terms.

DOCTORAL DEGREES

Regulations governing transfer credit and residence requirements for doctoral programs are detailed within program descriptions for individual doctoral programs of study.

TIME LIMITS FOR GRADUATE DEGREES

All work applied toward the master's degree must have been earned within the six years immediately preceding the completion of the graduate program. Regulations governing time limits for doctoral programs are detailed within program descriptions for individual doctoral programs of study.

REQUESTS FOR TIME EXTENSIONS

To utilize graduate credit taken prior to the six-year time limit for master's degrees, the student may request a time extension. These requests should be submitted before or during the semester in which the time limit expires. For further information please contact the Major Professor, the Graduate School, or the Coordinator of Graduate Studies for the particular major and college involved. Regulations governing time extensions for doctoral programs are detailed within program descriptions for individual doctoral programs of study.

FOREIGN LANGUAGE REQUIREMENT

A reading knowledge of one or more foreign languages is required of candidates for advanced degrees in specified degree programs.

COMPREHENSIVE EXAMINATIONS

A written comprehensive examination will be required of all candidates for master's degrees except candidates for the Master of Business Administration degree, the M.A.T., and the M.Ed. in Curriculum & Instruction and Educational Leadership. Regulations governing comprehensive examinations for doctoral

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programs are detailed within program descriptions for individual doctoral programs of study.

The comprehensive examination will cover the major area and the minor or related areas, and the candidate must pass both areas. To be eligible, a student must file an application to take the comprehensive examination with the Graduate School according to the semester/term deadlines. The student must have completed all courses shown on the approved degree plan or be enrolled in them. All grades of I, excluding graduate recital, graduate research, thesis, field study, and dissertation, must be completed at the time the candidate takes the written comprehensive examination. The written and oral comprehensive examinations should be scheduled within the testing dates given in the University Calendar. These dates do not apply to the oral examination given as the field study, thesis, or dissertation defense. The Dean of the Graduate School must be notified in writing of any exceptions.

The written comprehensive examination for all candidates will be constructed and administered by the candidate's graduate advisory committee or the departmental/school committee as determined by individual departments/schools. After all examinations have been scored and recorded, the questions and answers are to remain in the academic unit office. The major professor will report to the Dean of the Graduate School, in writing, the candidate's performance on the comprehensive examination as satisfactory or unsatisfactory. This report must contain the specific parts of the examination covered, e.g., major only, minor or related areas only, major and minor, and oral. The major professor will notify the candidate, as soon as possible, of the results of the comprehensive examination. At the conclusion of each semester, the respective department or school may forward to the University Library copies of their examination for deposit in the reference section. A candidate majoring in education whose minor area is in related areas will have the comprehensive examination assembled from appropriate sources, constructed, and administered by the appropriate department/school. When nine or more hours in the minor areas, including related areas, are from a single college, the Graduate Coordinator in that college is responsible for coordinating that portion of the examination and reporting the results to the Graduate Coordinator of the College of Education and Human Development and the Dean of the Graduate School.

When the candidate is majoring in a subject matter field and minoring in education, it is the responsibility of the Graduate Coordinator of the college representing the major field to coordinate that portion of the examination and report the results to the Graduate Coordinator in the College of Education and Human Development and the Dean of the Graduate School.

The candidate must pass both the major area portion and the minor or related areas portion of the written comprehensive examination. If the candidate passes one portion and fails the other, only that portion which was failed must be repeated. No one will be permitted to take any portion of the comprehensive examination more than three times without revisions to the Student Plan of Study. Before a third examination can be administered, the candidate must complete a revised program of study outlined by the graduate advisory committee and approved by the Dean of the Graduate School.

An oral examination will be required of all candidates for advanced degrees who submit a field study, thesis, or dissertation. An oral examination may be required of other candidates for advanced degrees as determined by each department or school. The oral examination will be taken only after the candidate has satisfactorily completed the written comprehensive examination. Copies of the field study, thesis, or dissertation must be submitted to the candidate's

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graduate advisory committee at least five (5) days before the oral examination. The oral examination is the responsibility of the candidate's graduate advisory committee and the examining committee, who may invite other faculty members and administrators to participate in an ex officio capacity. The candidate's performance on the oral examination must be reported, in writing, by the major professor to the Dean of the Graduate School as satisfactory or unsatisfactory. When the oral examination is the thesis, field study, or dissertation defense, this reporting requirement will be satisfied by the graduate advisory committee's approval of the field study, thesis, or dissertation.

If the candidate's performance on the major area, the minor or related areas, or the oral examination is judged to be unsatisfactory, the candidate must wait until the next comprehensive examination period to reapply to take any part or all of the comprehensive examination.

The candidate is advised to confer with the graduate advisory committee and the appropriate Graduate Coordinator regarding procedures and structure of the comprehensive examination.

THE FIELD STUDY, THESIS, OR DISSERTATION

The field study, thesis or dissertation topic must be selected by the student in consultation with the major professor and must be approved by the student's graduate advisory committee prior to the beginning of the research process by the student. A student who has satisfied all academic course-related requirements with the exception of the field study, thesis or dissertation, must register for at least one to three semester hours of 599 or 699 during any semester/term in which an Application for Graduate Degree has been completed. Additionally, candidates who are participating in a directed study, clinical placement, internship, thesis, or dissertation activities are required to enroll for the appropriate course each semester until graduation.

The subject of the field study, thesis, or dissertation must be connected with the student's major field. Credit on a student's degree plan for the field study and thesis may not exceed six semester hours. The field study, thesis, or dissertation should be approved by the graduate advisory committee before credit can be given.

One pre-approval copy of the field study, thesis, or dissertation must be submitted to the Graduate School no later than the deadline stated in the University Calendar. A pre-approval copy is the completed work of the student, which has been formally reviewed and approved by the student's graduate advisory committee. The pre-approval copy must include signatures of the graduate advisory committee. The pre-approval copy must be on 8 $\frac{1}{2}$ " x 11" photocopy paper and of appropriate print quality.

When the pre-approval copy is submitted, an initial review is done by the Graduate School. A proofreader will then complete a review of the manuscript and the marked pre-approval copy will be returned to the student. At this time, the student will be given a deadline for making all changes and submitting the complete corrected original document along with the required number of final approval copies accompanied by the appropriate number of original faculty signature title pages to the Graduate School. These documents are to be printed on the correct quality paper as described in the ULM Guidelines for the Preparation of Field Studies, Theses & Dissertations. A review of the final approval copies will then be made.

The Guidelines, issued by the Graduate School, must be followed in writing a field study, thesis, or dissertation.

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A minimum of four copies of the field study or thesis and five copies of the dissertation in final form, approved and signed by members of the graduate advisory committee, and one additional copy of the abstract must be submitted to the Graduate School by the deadline as stated in the University Calendar. For the exact date, please see the University Calendar. All dissertations will be microfilmed by the University Microfilms, Inc., and the student will pay the microfilming fee of \$65 which provides for microfilming of the complete dissertation and for publication of an abstract not to exceed 600 words.

A binding fee of \$12.00 per volume for the required copies of the field study, thesis, or dissertation must be paid at the "La Capitol Federal Credit Union on Northeast Drive in University Commons II," and the receipt submitted to the Graduate School.

The original and one additional copy of the field study, thesis, or dissertation are placed in the library. The remaining copies are sent to the student's major professor and to the student.

GRADUATE ASSISTANTSHIPS

The University provides a number of research and teaching assistantships. To be eligible for an assistantship the applicant must be eligible for Graduate School enrollment and is required to be in or eligible for regular admission to a specific graduate degree program. Applicants admitted conditionally because they lack undergraduate prerequisites are also eligible. Students admitted conditionally because they do not meet GPA and/or test-score requirements for regular admission are not eligible. Likewise, provisional and non-degree students are not eligible for graduate assistantships.

Applications for assistantships may be obtained from the Graduate School, the University of Louisiana at Monroe, Monroe, Louisiana 71209-0600. Completed application forms for assistantships are to be filed with the Head of the Department to which the applicant desires assignment. Transcripts and three letters of recommendation are required. International students seeking graduate assistantships must be able to demonstrate adequate communication skills.

In general, students are given graduate assistantships in the programs from which they are seeking a degree. They are expected to work 20 hours per week during the regular semester or summer session in which they hold a graduate assistantship. They may not hold a concurrent graduate work-study position or another graduate assistantship.

Stipends for graduate assistants may vary depending on the graduate level of the applicant, the credentials of the applicant, and the service to be rendered. In-state graduate tuition and out-of-state fee will be waived for the regular semester or summer session during which a student holds an assistantship. The out-of-state fee is also waived for the summer term following the spring semester in which an assistantship is held if the student does not graduate that semester. Graduate assistants are required to pay general fee, activity fee, ID validation fee, technology fee, and if applicable, a vehicle registration fee and international student service and insurance fees.

Graduate assistants are expected to earn not less than nine (9) semester hours of credit toward their graduate degrees (twelve semester hours in the College of Pharmacy) during a regular semester and not less than three (3) hours of credit during a summer session. Appropriate courses include (1) those which are required for the degree and, if applicable, (2) those courses designated by

GRADUATE SCHOOL REGULATIONS 45

the department and/or the student's graduate committee as deficiencies or prerequisites which are included on the graduate student's approved degree plan. Exceptions, for unusual circumstances, must be recommended, in writing, by the appropriate academic dean or university administrator and approved by the Dean of the Graduate School.

All graduate assistants are encouraged to register for classes during the regularly scheduled telephone registration period.

Reappointment is contingent, in part, upon continued eligibility for graduate enrollment, satisfactory progress toward meeting degree requirements, and satisfactory performance of duties. Graduate assistants are expected to complete their degree programs in a timely fashion in general, two years for a master's degree and four years for a doctoral degree.

GRADUATE WORK-STUDY

The University provides a number of laboratory, non-teaching, and research graduate work-study positions. To be eligible for graduate work-study the applicant must be eligible for Graduate School enrollment and is required to be in or eligible for admission to a specific graduate degree program. Applicants admitted conditionally are also eligible, but provisional and non-degree students are not eligible for graduate work-study.

Applications for graduate work-study may be obtained from the Graduate School, the University of Louisiana at Monroe, Monroe, Louisiana 71209-0600. Completed application forms for graduate work-study are to be filed with the Head of the Department to which the applicant desires assignment. Transcripts and three letters of recommendation are required. International students seeking graduate work-study positions must be able to demonstrate adequate communication skills.

Students are expected to work 20 hours per week during the regular semester or summer session in which they hold a graduate work-study position. They may not hold a concurrent graduate assistantship or another graduate work-study position.

The stipend for graduate work-study is \$2,240 for a regular semester and \$800 for a summer session. The out-of-state fee is waived for the regular semester or summer session during which a student holds a graduate work-study position. The out-of-state fee is also waived for the summer term following the spring semester in which a graduate work-study position is held if the student does not graduate that semester. Graduate work-study students are required to pay in-state tuition, general fee, activity fee, ID validation fee, technology fee, and if applicable, vehicle registration fee and international student service and insurance fees.

Graduate work-study students are expected to earn not less than nine (9) semester hours of credit toward their graduate degrees (twelve semester hours in the College of Pharmacy) during a regular semester and not less than three (3) hours of credit during a summer session. Appropriate courses include (1) those which are required for the degree and, if applicable, (2) those courses designated by the department and/or the student's graduate committee as deficiencies or prerequisites which are included on the graduate student's approved degree plan. Exceptions, for unusual circumstances, must be recommended, in writing, by the

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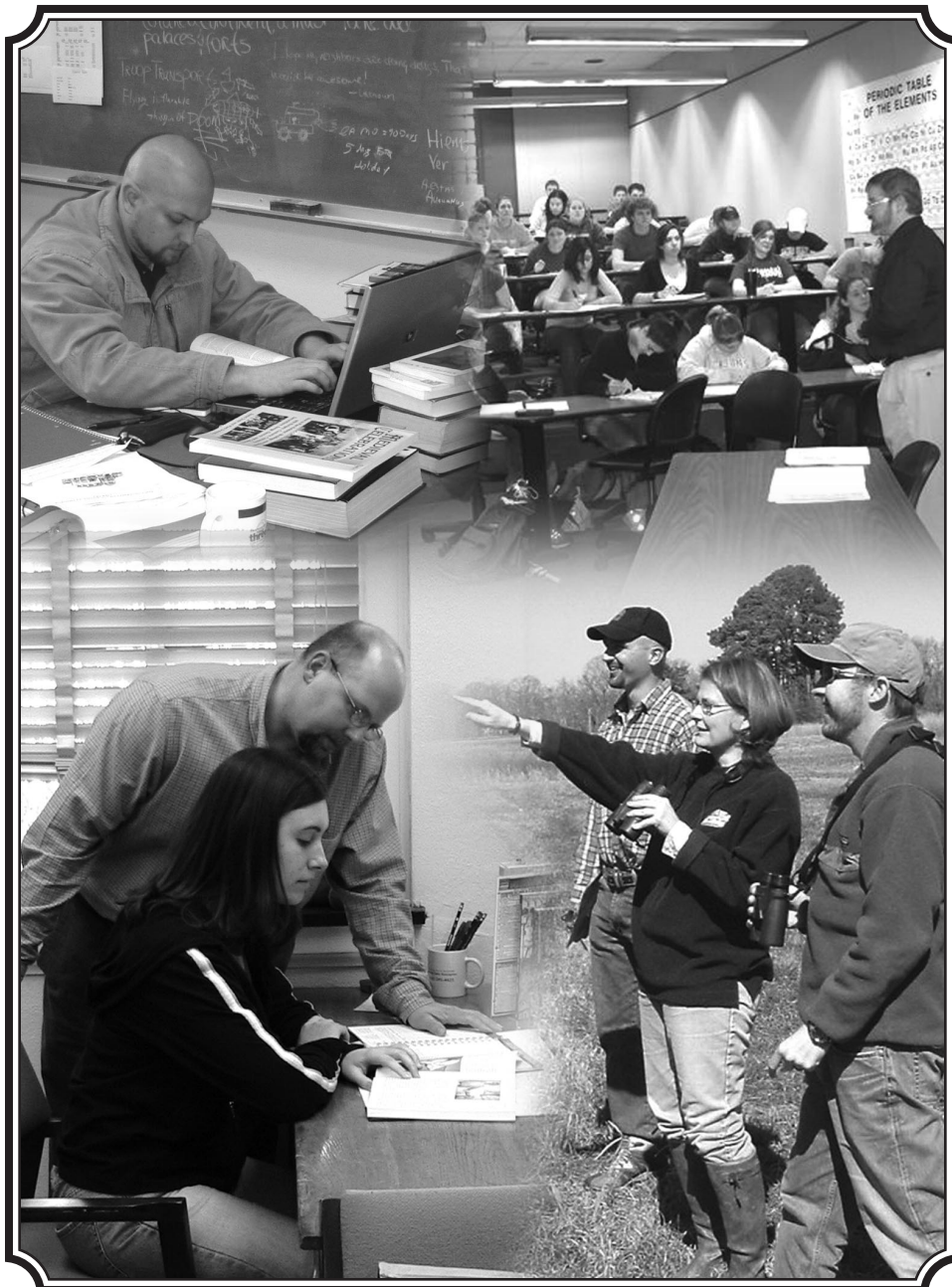
appropriate academic dean or university administrator and approved by the Dean of the Graduate School.

All graduate work-study students are encouraged to register for classes during the regularly scheduled telephone registration period.

Reappointment is contingent, in part, upon continued eligibility for graduate enrollment, satisfactory progress toward meeting degree requirements, and satisfactory performance of duties. Graduate work-study students are expected to complete their degree programs in a timely fashion in general, two years for a master's degree and four years for a doctoral degree.

FIELDS OF STUDY

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AGRICULTURE

**Chemistry and Natural Science Building 310
(318) 342-1766**

DEGREES: No degree is offered. Graduate courses are available for students working toward degrees in other disciplines.

MINOR REQUIREMENTS: A minor in Agriculture may be earned by students pursuing a Master of Education degree. Undergraduate course prerequisites for a graduate minor: 24 semester hours of agricultural courses.

Graduate course requirements for a graduate minor: 12 semester hours of agriculture and agronomy courses.

BIOLOGY

**CNSB 310
(318) 342-1805**

DEGREES: M.S. in Biology

Areas of study include Botany, Microbiology, Physiology, Conservation Biology and Management, and Zoology.

MINOR REQUIREMENTS: A minor in Biology may be earned by students pursuing a Master of Education degree. Undergraduate course prerequisites for a graduate minor: 20 semester hours of biology

Graduate course requirements for a graduate minor: 12 semester hours of biology.

PROGRAM ADMISSION: In addition to the University requirements for admission to the Graduate School at ULM, applicants for regular admission to the Master of Science in Biology degree program will meet one of the following criteria:

1. A minimum score of 900 on the GRE General Test (Verbal plus Quantitative).
2. A minimum of 2400 points, determined by multiplying the total undergraduate grade-point average by the combined GRE General Test Scores (Verbal plus Quantitative).

Applicants who fail to meet the above standard may be admitted on conditional status as recommended by the Biology Committee on Graduate Studies to the department head in concert with the Dean of the Graduate School.

PROGRAM REQUIREMENTS: Undergraduate requirements: B.S. or B.A. in a biological sciences discipline or a bachelor's degree with sufficient science background; selected undergraduate biology classes may be identified as deficiencies by the student's graduate advisory committee.

Requirements for a major: 33 semester hours of biology and related courses, including 6 semester hours of Biology 599.

CHEMISTRY

**Chemistry and Natural Science Building 210
(318) 342-1825**

DEGREES: No degree is offered. Graduate courses are available for students working toward degrees in other disciplines.

ACCREDITATION: The Bachelor of Science in Chemistry is accredited by the American Chemical Society.

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MINOR REQUIREMENTS: A minor in Chemistry may be earned by students pursuing a Master of Education degree. Undergraduate course prerequisites for a graduate minor: 20 semester hours of chemistry.

Graduate course requirements for a graduate minor: 12 semester hours of chemistry.

COMMUNICATION

Stubbs Hall 120

(318) 342-1750

DEGREES: M.A. in Communication

The Master of Arts in Communication is an interdisciplinary degree focusing on both Mass Communications and Communication Studies. Areas of emphasis within the degree include Media Studies, Communication and Culture, and Performance and Rhetorical Studies. Students typically enter this program with undergraduate degrees in Communication, Public Relations, Journalism, Political Studies, Media, Marketing, Sociology, and Organization Studies. For a complete listing of all courses listed in the Department of Communication be sure to look under "Communication" (COMM), "Communication Studies" (CMST) and "Mass Communication" (MCOM).

MINOR REQUIREMENTS: A minor in Communication Studies may be earned by students pursuing a Master of Education degree. Undergraduate course prerequisites for a graduate minor: 18 semester hours of communication coursework.

Graduate course requirements for a graduate minor: 12 semester hours of communication coursework.

PROGRAM ADMISSION: In addition to the University requirements for admission to the Graduate School at ULM, applicants for admission to the Master of Arts in Communication degree program must meet at least two of the following criteria:

1. A minimum cumulative grade-point average of 2.5.
2. A minimum combined score of 900 on the GRE General Test (Verbal plus Quantitative).
3. A combined score of 1875, determined by multiplying the total undergraduate grade-point average by the combined GRE General Test Scores (Verbal plus Quantitative).

Applicants who fail to meet the above standards may be admitted on conditional status as recommended by the Graduate Admission and Retention Committee of the Department of Communication in concert with the Dean of the Graduate School.

PROGRAM REQUIREMENTS: Undergraduate requirements: 30 semester hours in Communications or Communication Studies.

Requirements for a major (Thesis): 30 semester hours within the areas of communication and related fields, including Communication 500, 501, 502, and either Mass Communications 570 or Communication Studies 510, and 6 semester hours of 599.

Requirements for a major (Non-thesis): 36 semester hours within the areas of communication and related fields, including Communication 500, 501, 502, 593, and either Mass Communications 570 or Communication Studies 510.

The student's plan of study is to be determined with the guidance of the student's major professor.

CRIMINAL JUSTICE

Stubbs Hall 211

(318) 342-1440

DEGREES: M.A. in Criminal Justice

PROGRAM ADMISSION (M.A. in Criminal Justice): In addition to the University requirements for admission to the Graduate School at ULM, all applicants for regular

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admission to the Master of Arts in Criminal Justice degree program must meet one of the following criteria:

1. An overall grade point average of at least 2.5 on all undergraduate work pursued and a formula score of at least 2000 using the following formula: the combined total of the Verbal and Quantitative scores on the Graduate Record Examination multiplied by the student's grade point average on all undergraduate work pursued.
2. A minimum grade point average of 2.2 on all undergraduate work and a formula score of at least 2200.

If an applicant does not meet one of the criteria for regular admission to the degree program but has at least a 2.2 grade-point average on all undergraduate work pursued and a formula score of at least 1650; he or she may be admitted conditionally upon recommendation of the Criminal Justice Committee on Graduate Admissions and Policy.

Students who are admitted conditionally may not earn more than one grade lower than B and no grade lower than C during the first twelve semester hours of graduate course work. Any graduate student in the Criminal Justice degree program who earns more than two grades less than B or any grade less than C on graduate work will not be allowed to continue in the Criminal Justice graduate program. Any student who pursues approved course work at another university must present a transcript at the end of the semester in which the student initially enrolls in the transfer course work. Students who do not present transcripts as required will not be allowed to continue in the Criminal Justice graduate program nor enroll in criminal justice graduate courses until such time as the transcript is received.

All applicants for entry into the Criminal Justice graduate program must present scores on the Graduate Record Examination prior to admission. Students who do not have undergraduate degrees in criminal justice may be required to complete specified undergraduate deficiency courses prior to enrolling in graduate criminal justice course work.

PROGRAM REQUIREMENTS (M.A. in Criminal Justice): Undergraduate requirements: Applicants must complete the bachelor's degree from an accredited institution with a major in the field of Criminal Justice. Other bachelor's degrees will be considered on an individual basis; selected undergraduate background courses may be required to remove undergraduate deficiencies.

Basic core requirements for the Master of Arts in Criminal Justice: Criminal Justice 501, 505, 510, 514, 573, and 576.

Additional requirements (Thesis): 9 semester hours of criminal justice electives, and 6 semester hours of 599—total of 33 semester hours for the degree.

Additional requirement (Non-thesis): 12 semester hours of criminal justice electives, and 6 semester hours in an approved supporting area—total of 36 semester hours for the degree.

ENGLISH

**Administration Building 3-125
(318) 342-1485**

DEGREES: M.A. in English

MINOR REQUIREMENTS: A minor in English may be earned by students pursuing a Master of Education degree. Undergraduate course prerequisites for a graduate minor: 12 semester hours of English.

Graduate course requirements for a graduate minor: 12 semester hours of English. (Students minoring in English must be proficient in four separate areas of English.)

PROGRAM ADMISSION: In addition to the University requirements for admission to the Graduate School at ULM, all applicants for admission to the Master of Arts degree program in English must meet one of the following criteria:

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1. A minimum undergraduate grade-point average of 3.0 in upper-level English courses;
2. A minimum combined score of 900 on the GRE (Verbal and Quantitative) with special emphasis on the Verbal score.

For regular admission to the Master of Arts in English degree program, international students must submit a minimum score of 500 on the TOEFL or a minimum score of 85 on the Michigan Test.

Applicants who fail to meet the above standards may be admitted on conditional status as recommended by the Graduate Admissions Committee of the Department of English and the Head of English in concert with the Dean of the Graduate School.

PROGRAM REQUIREMENTS: Undergraduate requirements: 30 semester hours of English; credit in six semester hours on the sophomore level or a reading knowledge of a foreign language.

Requirements for a major (Thesis): 36 semester hours of English including English 507 or 508, 527 or 528, and 599. Requirements for a major (Non-thesis): 36 semester hours of English including English 507 or 508, and 527 or 528.

Additional requirements: English 514 for students specializing in literary studies; English 532 for students specializing in creative writing; English 519 for graduate teaching assistants. Our collaboration agreement with the English graduate program at Louisiana Tech University requires that during their graduate program and according to the agreement, students in traditional literary studies take three courses offered through the agreement to both universities. Students with a creative writing specialization must take only two of the courses offered through the collaboration agreement.

With their major professor's guidance and approval, students may take up to one-half of study of topics under the direction of a senior faculty member. Prerequisites: 21 graduate hours of English and approval of the student's adviser and of the department head.

FAMILY AND CONSUMER SCIENCES

Filhiol Hall 103
(318) 342-1903

DEGREES: No degree is offered. Graduate courses are available for students working toward degrees in other disciplines.

ACCREDITATION: The Family and Consumer Sciences Department is accredited by the Council for Accreditation of the American Family and Consumer Science Association and is also approved as a Vocational Teacher Training department.

MINOR REQUIREMENTS: A minor in Family and Consumer Sciences may be earned by students pursuing a Master of Education degree. Undergraduate course prerequisites for a graduate minor: 30 semester hours of family and consumer sciences.

Graduate course requirements for a graduate minor: 12 semester hours of family and consumer sciences.

FOREIGN LANGUAGES

Brown Hall 325
(318) 342-1525

DEGREES: No degree is offered. Graduate courses are available for students working toward degrees in other disciplines.

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MINOR REQUIREMENTS: A minor in Foreign Languages may be earned by students pursuing a Master of Education degree.

Graduate course requirements for a graduate minor: 12 semester hours of French and/or Spanish chosen from graduate courses numbered 400 or higher.

GEOSCIENCES

Hanna Hall 314
(318) 342-1878

DEGREES: No degree is offered. Graduate courses are available for students working toward degree in other disciplines.

GERONTOLOGY, SOCIOLOGY AND POLITICAL SCIENCE

Stubbs Hall 103
(318) 342-1432

DEGREES: M.A. in Gerontology
Certificate in Gerontological Studies

Areas of specialization for the M.A. in Gerontology include Long-Term Care Administration, Program Administration, and Aging Studies.

Areas of specialization for the Certificate in Gerontological Studies include Nursing and Generalist.

PROGRAM ADMISSION (M.A. in Gerontology): In addition to the University requirements for admission to the Graduate School at ULM, all applicants for regular admission to the Master of Arts in Gerontology degree program must meet one of the following criteria:

1. A minimum cumulative undergraduate grade-point average of 2.75 or 3.00 on the last 60 hours of undergraduate or combined undergraduate and graduate course work.
2. A minimum combined score of 900 on the Graduate Record Examination General Test (Verbal plus Quantitative).
3. A total of at least 1900 points determined by multiplying the cumulative overall undergraduate grade point average by the Graduate Record Examination General Test score (Verbal plus Quantitative).

In addition, all students must take the Graduate Record Exam prior to or within the first semester of graduate enrollment.

Applicants who fail to meet the above standards may be admitted on conditional status as recommended by the Gerontology Admission Committee and approved by the Dean of the Graduate School.

PROGRAM REQUIREMENTS (M.A. in Gerontology): Requirements for a degree in Gerontology with an specialization in Long-Term Care Administration: Gerontology or Biology 510, Gerontology 512, 565, 567, 587, 588, 590, FCSC 436, Management 507, three hours of gerontology electives, and six hours of gerontology or free electives for a total of 39 hours for the degree. Students in this specialization must complete the state required Administrator in Training (AIT) for their Gerontology 590 Internship. Six hours of gerontology electives will be substituted for Gerontology 590 if a student already possesses the Nursing Home Administrator's license.

Requirements for the degree in Gerontology with an specialization in Program Administration: Gerontology or Biology 510, Gerontology 512, 567, 540, 545, 568, Gerontology or Speech 526 or Counseling 650A, six hours of Gerontology electives, six hours of gerontology or free electives, and Gerontology 590 or 599 for a total of 39 hours for the degree. Students in this specialization may complete Gerontology 590 (an internship of 32 hours per week for 15 weeks) or Gerontology 599 (Thesis). Persons already employed full-time in an agency providing services to seniors may appeal for a

COLLEGE OF ARTS AND SCIENCES 55

waiver of the internship/thesis requirement and take six additional hours of gerontology electives.

Requirements for the degree in Gerontology with a specialization in Aging Studies: Gerontology or Biology 510, Gerontology 512, 567,452, 575, 599, Sociology 451 or Psychology 439, nine hours of gerontology electives, and six hours of gerontology or free electives for a total of 39 hours for the degree. Students in this specialization must write a thesis unless an internship is approved by the student's committee and department head. Persons who are already employed full-time in an agency providing services to seniors may appeal to the department head for a waiver of the internship/thesis requirement and take six additional hours of gerontology electives.

CERTIFICATE IN GERONTOLOGICAL STUDIES

PROGRAM ADMISSION: In addition to the University requirements for admission to the Graduate School at ULM, all applicants for regular admission to the Certificate Program must meet one of the following criteria:

1. A minimum undergraduate grade-point average of 2.75 or a minimum 3.0 on the last sixty semester hours of undergraduate or combined undergraduate and graduate course work.
2. A minimum combined score of 900 on the GRE General Test (Verbal plus Quantitative).
3. A combined score of 1900 determined by multiplying the cumulative undergraduate grade point average by the Graduate Record Examination General Test score (Verbal plus Quantitative).

In addition, students must take the Graduate Record Examination prior to or within their first semester of graduate enrollment.

Applicants who fail to meet the above standards may be admitted on conditional status as recommended by the Gerontology Admission Committee and approved by the Dean of the Graduate School.

PROGRAM REQUIREMENTS: Undergraduate requirements: Bachelor's degree from an accredited University. Students may be required to make up undergraduate deficiencies in the Generalist and Nursing areas before taking the basic core requirements (9 semester hours) depending on the student's prior academic preparation and/or work experience.

Basic core requirements for the Certificate in Gerontological Studies: Gerontology 510, 512, and Speech/Gerontology 526 or Counselor Education 650A.

Additional requirements, Generalist: 9 semester hours of Gerontology electives. Each student's credentials will be evaluated by the Head of the Program at the time of admission.

Additional requirements, Nursing: 9 semester hours from the following: Nursing 433, 435, and 436; Sociology 425. Nursing 436 will be required for persons without prior experience in a gerontology setting. Each student's credentials will be evaluated by the Head of the Program at the time of admission.

HISTORY

**Brown Hall 228
(318) 342-1538**

DEGREES: M.A. in History

MINOR REQUIREMENTS: A minor in Social Studies may be earned by students pursuing a Master of Education degree. Undergraduate course prerequisites for a graduate minor: 24 semester hours of social sciences or history.

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Graduate course requirements for a graduate minor: 12 semester hours of social sciences or history, including 6 semester hours in one of the social sciences or history.

PROGRAM ADMISSION: In addition to the University requirements for admission to the Graduate School at ULM, all applicants for regular admission to the Master of Arts in History degree program must meet the following criterium:

A minimum combined score of 900 on the GRE General Test (Verbal plus Quantitative).

Applicants who fail to meet the above standards may be admitted on conditional status as recommended by the Graduate History Admission and Curriculum Committee in concert with the Dean of the Graduate School.

PROGRAM REQUIREMENTS: Undergraduate requirements: 18 semester hours of social sciences and 18 semester hours of history.

Basic core requirements for the Master of Arts in History: History 530 and 535.

Additional requirements: 18 semester hours of history electives and 6 semester hours of History 599. Total of 30 semester hours. Students who do not wish to write a thesis are required to take 30 hours of history electives and the 6 hours of basic core requirements for a total of 36 semester hours for the degree.

MATHEMATICS AND PHYSICS

MATHEMATICS

DEGREES: No degree is offered. Graduate courses are available for students working toward degrees in other disciplines.

MINOR REQUIREMENTS: A minor in Mathematics may be earned by students pursuing a Master of Education degree. Undergraduate course prerequisites for a graduate minor: 18 semester hours of mathematics, including differential and integral calculus.

Graduate course requirements for a graduate minor: 12 semester hours of mathematics.

PHYSICS

DEGREES: No degree is offered. Graduate courses are available for students working toward degrees in other disciplines.

MINOR REQUIREMENTS: A minor in Physics may be earned by students pursuing a Master of Education degree. Undergraduate course prerequisites for a graduate minor: 20 semester hours of physics.

Graduate course requirements for a graduate minor: 12 semester hours of physics.

MINOR REQUIREMENTS: A minor in Science may be earned by students pursuing a Master of Education degree. Undergraduate course prerequisites for a graduate minor: 12 semester hours in one of the biological, physical, or earth sciences.

COLLEGE OF ARTS AND SCIENCES 57

Graduate course requirements for a graduate minor: 12 semester hours in one or more of the areas of biology, chemistry, geosciences, or physics.

SOCIAL WORK

**Stubbs Hall 217
(318) 342-1456**

DEGREES: No degree is offered. Graduate courses are available for students working toward degrees in other disciplines.

SCHOOL OF VISUAL AND PERFORMING ARTS**ART**

**Stubbs Hall 141
(318) 342-1375**

DEGREES: No degree is offered. Graduate courses are available for students working toward degrees in other disciplines.

MINOR REQUIREMENTS: A minor in Art may be earned by students pursuing a Master of Education degree. Undergraduate course prerequisites for a graduate minor: 30 semester hours of art.

Graduate course requirements for a graduate minor: 12 semester hours of art.

MUSIC

**Biedenharn Hall 128
(318) 342-1570**

DEGREES: M.M. in Music

Areas of specialization available include Conducting, Music Education, Performance, and Theory/Composition.

MINOR REQUIREMENTS: A minor in Music may be earned by students pursuing a Master of Education degree. Undergraduate course prerequisites for a graduate minor: A bachelor's degree with a major in Music Education.

Graduate course requirements for a graduate minor: 12 semester hours of music.

ACCREDITATION: The University is a member in good standing of the National Association of Schools of Music.

PROGRAM ADMISSION: In addition to the University requirements for admission to the Graduate School at ULM, applicants for regular admission to the Master of Music in Music degree program must meet two of the following criteria:

1. A minimum undergraduate cumulative grade-point average of 2.5.
2. A minimum combined score of 900 on the GRE General Test (Verbal plus Quantitative).
3. A combined score of 1875, determined by multiplying the total undergraduate grade-point average by the combined GRE General Test Score (Verbal plus Quantitative).

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In addition, a performance audition is required. Those living so distant from the university as to make a personal performance audition a hardship may submit a cassette recording instead.

PROGRAM REQUIREMENTS: The Division of Music offers the Master of Music degree with specialty areas in Conducting, Music Education, Performance, and Theory/Composition. Requirements for a major: 32 semester hours in Music and Music Education courses. There will be written and oral comprehensive examinations during the final session of study.

Entrance auditions and placement examinations: Auditions and placement examinations will be given in theory, music history and literature, piano proficiency, conducting, and performance prior to the student's first registration as a means of providing sufficient information for proper advisement. Applicants for the Theory/Composition specialty area must submit a portfolio of original compositions. Upon evaluation of applicants' undergraduate transcripts, auditions, and placement examination results, students may be admitted to the program conditionally, with additional study required in areas found deficient.

CORE REQUIREMENTS: Regardless of which specialty area is selected, all Master of Music students must complete the following fifteen (15) semester hours: Music Education 533, six semester hours of graduate-level music history, Music 579 or Music Education 513, and the appropriate area pedagogy seminar. In addition, a minimum of seventeen (17) hours must be completed in one of the specialty areas listed below. Graduate music students are required to participate in a coached or conducted ensemble each semester. A maximum of two semester hours of graduate ensemble credit may be applied to the Master of Music degree.

CONDUCTING SPECIALTY AREA: Undergraduate requirements: Completion of the Bachelor of Music or Bachelor of Music Education degree from The University of Louisiana at Monroe or an equivalent program.

In addition to the core requirements for all Master of Music majors, a minimum of seventeen (17) semester hours including Music 585, 586, and 597; 470, 495, or 498; and two of the following: 582, 583, or 584.

MUSIC PERFORMANCE SPECIALTY AREA: Undergraduate requirements: Completion of the Bachelor of Music degree from the University of Louisiana at Monroe or an equivalent program within the area of Performance. Voice students must demonstrate adequate knowledge of languages to understand and perform the vocal repertory. Performance applicants must demonstrate by audition a high proficiency of performance on the major instrument or voice. In addition to the core requirements for all Master of Music majors, a minimum of seventeen (17) semester hours in the area of performance including Music 597 or 598.

MUSIC EDUCATION SPECIALTY AREA: Undergraduate requirements: Completion of an undergraduate degree in music education which conforms to NASM requirements. In addition to the core requirements for all Master of Music majors, a minimum of seventeen (17) semester hours including Music Education 537; Music 582, 583, or 584; and a minimum of four semester hours of 500-level applied music. Candidates for the Master of Music degree with a specialty area in Music Education must hold a valid teacher's certificate in the field, issued by the Louisiana State Department of Education, or its equivalent.

THEORY/COMPOSITION SPECIALTY AREA: Undergraduate requirements: A Bachelor of Music degree in Theory/Composition from The University of Louisiana at Monroe or an equivalent program.

In addition to the core requirements for all Master of Music majors, a minimum of seventeen (17) hours including Music 481, 572, 573, 575, and 599.

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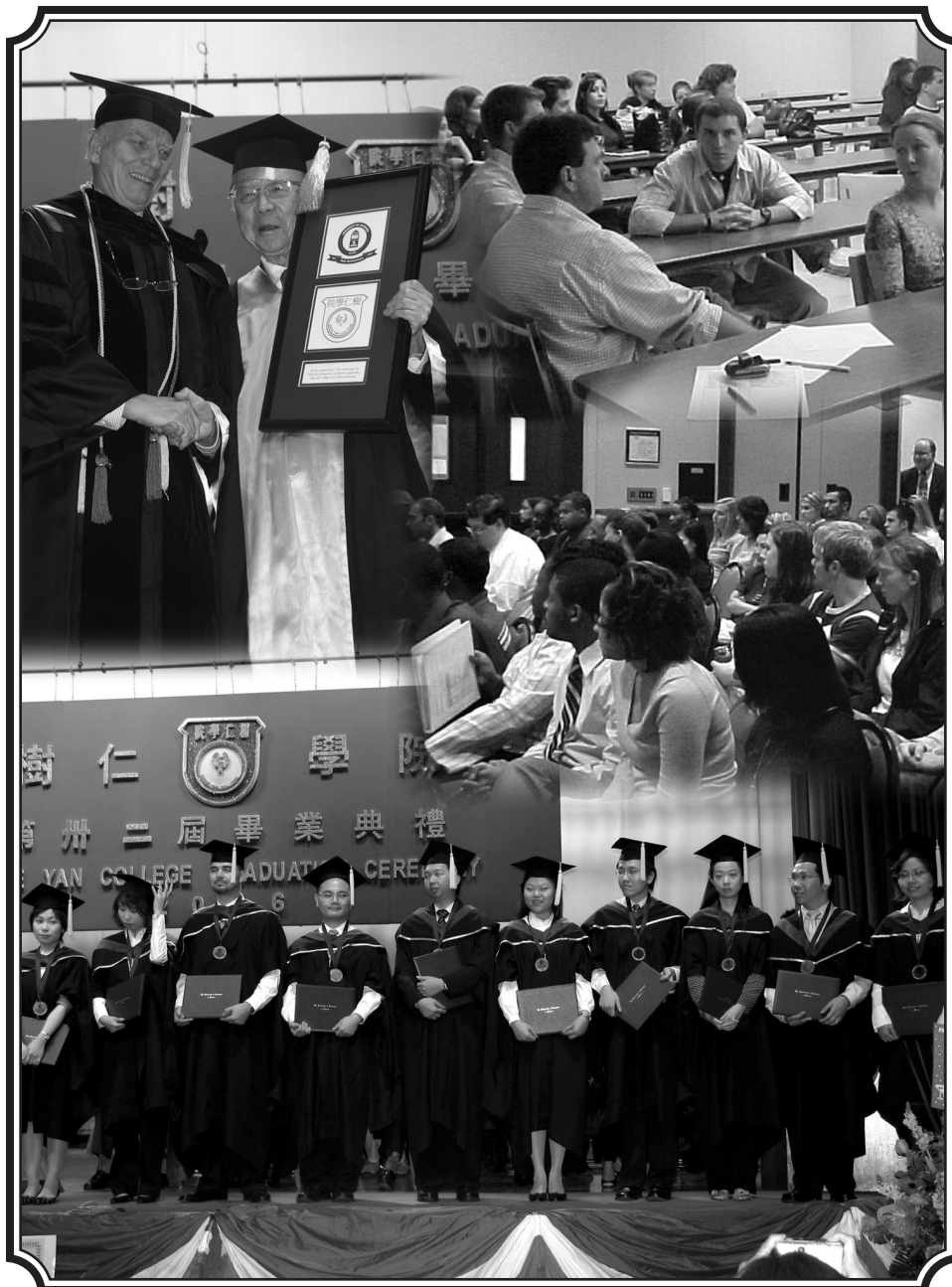
THEATRE AND DANCE

Brown Annex 146

(318) 342-1413

DEGREES: No degree is offered. Graduate courses are available for students working toward degrees in other disciplines.

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COLLEGE OF BUSINESS ADMINISTRATION 61

COLLEGE OF BUSINESS ADMINISTRATION

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AVIATION

The Col. William T. Hemphill Airway & Computer Science Building
(318) 342-1780

DEGREES: No degree is offered. Graduate courses are available for students working toward degrees in other disciplines.

MINOR REQUIREMENTS: A minor in Aviation may be earned by students pursuing a Master of Education degree. Undergraduate course prerequisites for a graduate minor: 24 semester hours of aviation.

Graduate course requirements for a graduate minor: 12 semester hours of aviation.

BUSINESS ADMINISTRATION

Administration Building 2-37
(318) 342-1100

DEGREES: M.B.A. in Business Administration

ACCREDITATION STATUS

The Master of Business Administration program is accredited by AACSB International - The Association to Advance Collegiate Schools of Business.

PROGRAM ADMISSION: Admission to the Master of Business Administration Degree program is at the discretion of the Graduate Admission's Committee of the College of Business Administration and the Dean of the Graduate School. Applicants must (1) meet all of the general requirements for admission to the Graduate School, (2) submit a satisfactory Graduate Management Admission Test (GMAT) score (minimum of 450), and (3) demonstrate high promise of success in postgraduate business study. Evidence of high promise may include submission of three letters of recommendation, a summary of work experience, and academic achievement in the form of a resume. Additionally, international students must submit a satisfactory score on the Test of English as a Foreign Language (TOEFL) examination. Decisions by the Graduate Admissions Committee are based on a broad range of criteria, and no particular level of academic performance or test scores will guarantee acceptance.

Managerial work experience can be factored into the MBA formula calculation as follows:

Regular – (Undergraduate GPA * 200) + GMAT (min. 450) + Work Exp. Factor = 1,000

Conditional – (Last 60 hours towards graduate/undergraduate degree * 200) + GMAT (min. 450) + Work Exp. Factor = 1,050

The CBA Graduate Coordinator and CBA Graduate Admissions Committee will determine what constitutes as eligible and acceptable managerial work experience and will assign work experience factor points based on review of documented managerial work experience. A maximum of 50 points could be allocated for work experience. In rare circumstances, applicants with documented extensive executive work experience not meeting minimum program admission requirements may appeal in writing to the CBA Graduate Admissions Committee through the CBA Graduate Coordinator for admissions into the MBA program.

For conditional admission for the MBA program, GPA is calculated on the last 60 hours of coursework in recognized graduate study (if applicable) and towards undergraduate degree. A minimum GMAT of 450 is required.

PROGRAM REQUIREMENTS: Requirements for business background courses: Accounting 212 and 213, or 502; Economics 201 and 202, or 502; Finance 315; Management 301 and 309; Marketing 301; Quantitative Methods 210. Requirements can be

COLLEGE OF BUSINESS ADMINISTRATION 63

met by (a) passing non-credit proficiency examinations in the foundation areas, (b) passing CLEP examinations for undergraduate credit or passing ULM credit examinations in those subjects in which there are no CLEP examinations available, or (c) completing the background courses with a grade of C or better.

Requirements for all students: Business Administration 509, 511, 512, 520, 521, 522, 530, 539; six semester hours of electives in the field of business administration. At least three semester hours of the electives must be for graduates only.

Students desiring a specialization in Gerontology must elect Gerontology 410, 512, and either Gerontology 565 or 567 instead of the six semester hours of electives in the field of business administration.

Students desiring a specialization in Health Care Administration must elect Pharmacy 547, 548, and 549 instead of the six semester hours of electives in the field of business administration.

(Note: Unless all three pharmacy courses or all three gerontology courses are taken, none of them may be used to satisfy the elective course requirements for the MBA degree.)

COMPUTER SCIENCE

COMPUTER SCIENCE

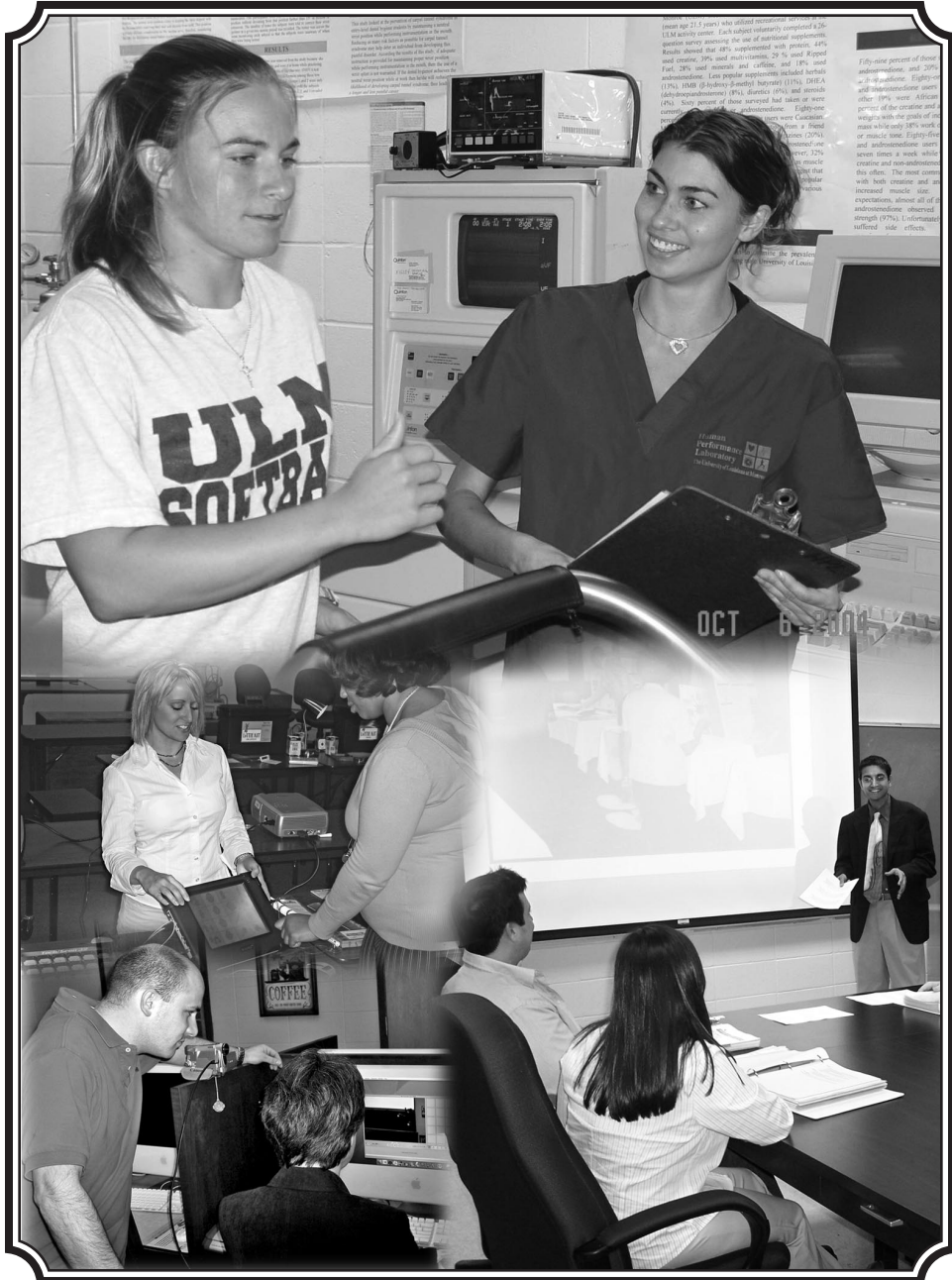
DEGREES: No degree is offered. Graduate courses are available for students working toward degrees in other disciplines.

ACCREDITATION: The computer science program in the College of Business Administration is accredited by ABET – Computing Accreditation Commission.

MINOR REQUIREMENTS: A minor in Computer Science may be earned by students pursuing a Master of Education degree.

Graduate course requirements for a graduate minor: 12 semester hours of computer science courses taken from the 400 level courses approved for graduate level or from 500 level courses.

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COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT 65

**COLLEGE OF EDUCATION AND
HUMAN DEVELOPMENT**

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CURRICULUM AND INSTRUCTION

Strauss Hall 208
(318) 342-1266

DEGREES: M.Ed. in Curriculum and Instruction
 Ed.D. in Curriculum and Instruction (see Doctor of Education)
 M.A.T. in Elementary Education Grades 1-5 (Alternative Certification)
 M.A.T. in Multiple Levels Grades K-12 (Alternative Certification)
 M.A.T. in Secondary Education Grades 6-12 (Alternative Certification)
 M.A.T. in Special Education Mild/Moderate Grades 1-12 (Alternative Certification)

MINOR REQUIREMENTS: A minor in Business may be earned by students pursuing a Master of Education degree. Undergraduate course prerequisites for a graduate minor: 27 semester hours of business administration, including Accounting 210-211 or the equivalent.

Graduate course requirements for a graduate minor: 12 semester hours in the College of Business Administration.

PROGRAM ADMISSION FOR:
 CURRICULUM AND INSTRUCTION (M.Ed.)

In addition to the University requirements for admission, all applicants must present a combined score of 1875 on a scale which is found by multiplying their total undergraduate grade-point average by the combined Graduate Record Examination General Test score (Verbal plus Quantitative) in order to qualify for "Regular Status." Students scoring between 1650 and 1875 (GRE X GPA) may be admitted on "Conditional Status." Applicants for Alternative Certification degrees must meet the additional admission requirements specified for those programs.

PROGRAM REQUIREMENTS: Specialization in Early Childhood: A candidate for specialization in Early Childhood must hold a valid teacher's certificate in a field complimentary to graduate specialization issued by the Louisiana State Department of Education or its equivalent. A total of 36 semester hours must be earned for the degree. Successful candidates also earn their endorsement for Teacher Leader. The requirements include 18 hours of Elementary Education (ELED 451, 453, 509, 521, 546, and 683), 12 hours of Curriculum and Instruction (CURR 518, 523, 545, and 573), and 6 hours of Educational Leadership (EDLE 500 and 505).

PROGRAM REQUIREMENTS: Specialization in Elementary Education: A candidate for specialization in Elementary Education must hold a valid teacher's certificate in the field of graduate specialization issued by the Louisiana State Department of Education or its equivalent. A total of 36 semester hours must be earned for the degree. The endorsement for Teacher Leader is also earned by successful candidates in this program. The requirements include 18 hours of Elementary Education (ELED 510, 511, 521, 533, 546, and 683), 12 hours of Curriculum and Instruction (CURR 518, 523, 545, and 573), and 6 hours of Educational Leadership (EDLE 500 and 505).

PROGRAM REQUIREMENTS: Specialization in Instructional Technology Facilitator: A candidate for specialization Instructional Technology Facilitator must hold a valid teacher's certificate in a field complimentary to graduate specialization issued by the Louisiana State Department of Education or its equivalent. A total of 36 semester hours must be earned for the degree. Successful candidates in this program also earn their endorsement for Teacher Leader. The requirements include 12 hours of Educational Instructional Technology (EDIT 525, 555, 625, and 626), 12 hours of Curriculum and Instruction (CURR 518, 523, 545, and 573), and 6 hours of Educational Leadership (EDLE 500 and 505).

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PROGRAM REQUIREMENTS: Specialization in Middle School Education: A candidate for specialization in Middle School Education must hold a valid teacher's certificate in a field complimentary to graduate specialization issued by the Louisiana State Department of Education or its equivalent. A total of 36 semester hours must be earned for the degree. The endorsement for Teacher Leader is also earned by successful candidates in this program. The requirements include 18 hours of Curriculum and Instruction (CURR 503, 518, 523, 545, 573, and 684), 6 hours of Educational Leadership (EDLE 500 and 505), 6 hours of Reading (READ 418 and 502), and 6 hours in a content specific course such as English, mathematics, social studies, and sciences.

PROGRAM REQUIREMENTS: Specialization in Reading: A candidate for the specialization in Reading must hold a valid teacher's certificate in a field complimentary to graduate specialization issued by the Louisiana State Department of Education or its equivalent. A total of 36 semester hours must be earned for the degree. Successful candidates in this program also earn their endorsement for Teacher Leader. The requirements include 18 hours of Reading (READ 418, 501, 502, 507, 518, 525), 12 hours of Curriculum and Instruction (CURR 518, 523, 545, and 573) and 6 hours of Educational Leadership (EDLE 500 and 505).

PROGRAM REQUIREMENTS: Specialization in Secondary Education: A candidate for the specialization Secondary Education must hold a valid teacher's certificate in the field of graduate specialization issued by the Louisiana State Department of Education or its equivalent. Candidates for the specialization in Secondary Education must choose a content teaching area from the following list:

- Art
- Biology
- Chemistry
- Computer Science
- Earth Science
- English
- Family and Consumer Science
- French
- History
- Mathematics
- Music
- Spanish
- Speech

A total of 36 semester hours must be earned for the degree. Successful candidates in this program also earn their endorsement for Teacher Leader. The requirements include 15 hours of Curriculum and Instruction (CURR 518, 523, 545, 573, and 684), and 6 hours of Educational Leadership (EDLE 500 and 505), and 15 hours from their content teaching area. Specific requirements for the course work in the various content areas listed above may be obtained from the Department of Curriculum and Instruction or on the College of Education and Human Development web site (<http://www.ulm.edu>).

PROGRAM REQUIREMENTS: Specialization in Special Education, Academically Gifted: A candidate for the specialization in Special Education, Academically Gifted must hold a valid teacher's certificate in a field complementary to graduate specialization issued by the Louisiana State Department of Education or its equivalent. A total of 36 semester hours must be earned for the degree. Successful candidates in this program also earn their endorsement for Teacher Leader. The requirements include 18 hours of Special Education (SPED 550, 574, 575, 576, 577, and 578), 12 hours of Curriculum and Instruction (CURR 518, 523, 545, and 573), and 6 hours of Educational Leadership (EDLE 500 and 505).

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PROGRAM REQUIREMENTS: Specialization in Special Education, Early Intervention: A candidate for the specialization in Special Education, Early Intervention must hold a valid teacher's certificate in a field complementary to graduate specialization issued by the Louisiana State Department of Education or its equivalent. A total of 36 semester hours must be earned for the degree. Successful candidates in this program also earn their endorsement for Teacher Leader. The requirements include 18 hours of Special Education (SPED 453, 504, 525, 527, 531, and 526), 12 hours of Curriculum and Instruction (CURR 518, 523, 545, and 573), and 6 hours of Educational Leadership (EDLE 500 and 505).

PROGRAM REQUIREMENTS: Specialization in Special Education, Educational Diagnostics: A candidate for the specialization in Special Education, Educational Diagnostics must hold a valid teacher's certificate in a field complementary to graduate specialization issued by the Louisiana State Department of Education or its equivalent. A total of 36 semester hours must be earned for the degree. Successful candidates in this program also earn their endorsement for Teacher Leader. The requirements include 15 hours of Special Education (SPED 501, 502, 550, 561, and 572), 12 hours of Curriculum and Instruction (CURR 518, 523, 545, and 573), 6 hours of Educational Leadership (EDLE 500 and 505), and 3 hours of Psychology (PSYC 507).

PROGRAM REQUIREMENTS: Specialization in Special Education, Mild/Moderate Disabilities: A candidate for the specialization in Special Education, Mild/Moderate Disabilities must hold a valid teacher's certificate in a field complementary to graduate specialization issued by the Louisiana State Department of Education or its equivalent. A total of 36 semester hours must be earned for the degree. Successful candidates in this program also earn their endorsement for Teacher Leader. The requirements include 18 hours of Special Education (SPED 501, 505, 506, 507, 561, and 566), 12 hours of Curriculum and Instruction (CURR 518, 523, 545, and 573), and 6 hours of Educational Leadership (EDLE 500 and 505).

NOTE: THE FOLLOWING M.A.T. PROGRAMS ARE FOR ALTERNATIVE CERTIFICATION ONLY.

PROGRAM ADMISSION FOR:

ELEMENTARY EDUCATION GRADES 1-5 (M.A.T. [Alternative Certification])

In addition to the University requirements for admission, all applicants must present a combined score of 1875 on a scale which is found by multiplying their total undergraduate grade-point average by the combined Graduate Record Examination General Test score (Verbal plus Quantitative) in order to qualify for "Regular Status." Students scoring between 1650 and 1875 (GRE X GPA) may be admitted on "Conditional Status."

Other admission requirements include meeting:

1. Eligibility requirements for admission to Teacher Education (minimum of 2.5 grade-point average on undergraduate studies and passing scores on PRAXIS I: Reading, Writing, Math) or a composite of 22 on the ACT; and
2. Content knowledge requirements for Louisiana initial teacher licensure eligibility (passing scores on PRAXIS Elementary Education: Content Knowledge 10014).
3. TEACH Delta Region screening assessment requirements.

PROGRAM REQUIREMENTS (M.A.T. in Elementary Education Grades 1-5 [Alternative Certification]): Thirty semester hours to include Curriculum 500A, 545A, Educational Foundations 401, 524, 581, Elementary Education 510, 511, Kinesiology 442,

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Psychology 503, Reading 502, and 6 semester hours of internship, Curriculum 483A, for a total of 36 semester hours for the degree.

To successfully complete CURR 483A, candidates must meet all other eligibility requirements for initial teacher licensure in Louisiana, which include meeting Program Admission requirements above, satisfactory performance in specified courses, and passing scores on state-designated PRAXIS II tests.

PROGRAM ADMISSION FOR:

MULTIPLE LEVELS IN GRADES K-12 (M.A.T. [Alternative Certification])
[Art Education, Health and Physical Education, Music Education, French Education, Spanish Education]

In addition to the University requirements for admission, all applicants must present a combined score of 1875 on a scale which is found by multiplying their total undergraduate grade-point average by the combined Graduate Record Examination General Test score (Verbal plus Quantitative) in order to qualify for "Regular Status." Students scoring between 1650 and 1875 (GRE X GPA) may be admitted on "Conditional Status."

Other admission requirements include meeting:

1. Eligibility requirements for admission to Teacher Education (minimum of 2.5 grade-point average on undergraduate work and passing scores on PRAXIS I: Reading, Writing, Math) or a composite of 22 on the ACT; and
2. Content knowledge requirements for Louisiana, which include
 - a) Possess a baccalaureate degree from a regionally accredited university either with a major in a certifiable teaching area or with coursework equivalent to a primary focus area (30 hours) and
 - b) Present passing scores on state-designated PRAXIS content test in teaching area; and
3. TEACH Delta Region screening assessment requirements.

PROGRAM REQUIREMENTS (M.A.T. in Multiple Levels Grades K-12 [Alternative Certification]): Thirty semester hours to include Curriculum 500, 545, 556, Educational Foundations 401, 524, 581, Elementary Education 509, Psychology 503, 505, Reading 502, and 6 semester hours of internship, Curriculum 483, for a total of 36 semester hours for the degree.

To successfully complete CURR 483, candidates must meet all other eligibility requirements for initial teacher licensure in Louisiana, which include meeting Program Admission requirements above, satisfactory performance in specified courses, and passing scores on state-designated PRAXIS II tests.

PROGRAM ADMISSION FOR:

SECONDARY EDUCATION GRADES 6-12 (M.A.T. [Alternative Certification])

In addition to the University requirements for admission, all applicants must present a combined score of 1875 on a scale which is found by multiplying their total undergraduate grade-point average by the combined Graduate Record Examination General Test score (Verbal plus Quantitative) in order to qualify for "Regular Status." Students scoring between 1650 and 1875 (GRE X GPA) may be admitted on "Conditional Status."

Other admission requirements include meeting:

1. Eligibility requirements for admission to Teacher Education (minimum of 2.5 grade-point average on undergraduate work and passing scores on PRAXIS I: Reading, Writing, Math) or a composite of 22 on the ACT; and
2. Content knowledge requirements for Louisiana which includes
 - a) Possess a baccalaureate degree from a regionally accredited university either with a major in a certifiable teaching area or with coursework equivalent to a primary focus area (30 hours) and
 - b) Present passing scores on state-designated PRAXIS content test in teaching area; and
3. TEACH Delta Region screening assessment requirements.

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PROGRAM REQUIREMENTS (M.A.T. in Secondary Education Grades 6-12 [Alternative Certification]): Thirty semester hours to include Curriculum 500B, 503, 542, 545B, 556, Educational Foundations 401, 524, 581, Psychology 505, Reading 418A, and 6 semester hours of internship, Curriculum 483B, for a total of 36 semester hours for the degree.

To successfully complete CURR 483B, candidates must meet all other eligibility requirements for initial teacher licensure in Louisiana, which include meeting Program Admission requirements above, satisfactory performance in specified courses, and passing scores on state-designated PRAXIS II tests.

PROGRAM ADMISSION FOR:

SPECIAL EDUCATION MILD/MODERATE GRADES 1-12 (M.A.T. [Alternative Certification])

In addition to the University requirements for admission, all applicants must present a combined score of 1875 on a scale which is found by multiplying their total undergraduate grade-point average by the combined Graduate Record Examination General Test score (Verbal plus Quantitative) in order to qualify for "Regular Status." Students scoring between 1650 and 1875 (GRE X GPA) may be admitted on "Conditional Status."

Other admission requirements include meeting:

1. Eligibility requirements for admission to Teacher Education (minimum of 2.5 grade-point average on undergraduate work and passing scores on PRAXIS I: Reading, Writing, Math) or a composite of 22 on the ACT; and
2. Content knowledge requirements for Louisiana initial teacher licensure eligibility (passing scores on PRAXIS Elementary Education: Content Knowledge 10014 or PRAXIS Content Area specialty examination) and
3. TEACH Delta Region screening assessment requirements.

PROGRAM REQUIREMENTS (M.A.T. in Special Education Mild/Moderate Grades 1-12 [Alternative Certification]): Thirty semester hours to include Curriculum 545A, Educational Foundations 524, 581, Psychology 552, Reading 501, 502, and Special Education 502, 503, 505, 506; and 6 semester hours of internship, Special Education 562, for a total of 36 semester hours for the degree.

To successfully complete SPED 562, candidates must meet all other eligibility requirements for initial teacher licensure in Louisiana, which include meeting Program Admission requirements above, satisfactory performances in specified courses, and passing scores on state-designated PRAXIS II tests.

DOCTOR OF EDUCATION

LOUISIANA EDUCATION CONSORTIUM

Strauss Hall 255

(318) 342-1235

DEGREES: Ed.D. in Curriculum and Instruction
Ed.D. in Educational Leadership

CREDENTIALS DEADLINE: Enrollment is limited. Individuals interested in applying for admission should contact the College of Education and Human Development, Ed.D. Consortium Coordinator, Strauss 154-B for application material.

THE DOCTOR OF EDUCATION DEGREE

The Doctor of Education degree in Curriculum and Instruction or Educational Leadership is offered through the cooperative efforts of The University of Louisiana at Monroe, Grambling State University and Louisiana Tech University and coordinated through the Louisiana Education Consortium Governing Board. All consortium institutions offer designated foundation courses and other graduate courses required in the Ed.D.

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program in Curriculum and Instruction or Educational Leadership based upon faculty expertise and other institutional resources. The Doctor of Education degree in Curriculum and Instruction and in Educational Leadership will be awarded by the institution to which the student has been admitted for doctoral study, with coursework being completed on all three campuses in order to provide diverse academic experiences. A unique strength of the Louisiana Education Consortium is that the three institutions strategically pool faculty, equipment, library resources and technology.

The programs are designed for P-16 personnel, including teachers and administrators. The primary goal of the doctoral programs is the preparation of practitioner-scholars for roles in elementary, middle, and secondary school settings.

PROGRAM ADMISSION: Student admission in Regular status to the doctoral program is based upon the following criteria:

The applicant must hold a master's degree from a regionally accredited institution in an area related to his/her proposed program of study.

The applicant must have a minimum cumulative undergraduate grade point average of at least 2.75 and a minimum cumulative graduate grade point average of at least 3.25.

The applicant must have completed the Graduate Record Examination (GRE) with a minimum score of 1000 (Verbal and Quantitative) or 1500 (Verbal, Quantitative and Analytical). If Analytical score is from 2004 or later, a score of 3.5 or higher is required.

The applicant must have teaching and/or administrative experience in a kindergarten, elementary, middle, or secondary school or similar educational setting. A valid teaching certificate is required for admission. A renewable credential issued by the Louisiana Board of Elementary and Secondary Education may be used in lieu of a Teaching Certificate.

The applicant must submit three letters of recommendation from individuals who are familiar with his/her character, teaching/administrative performance, and ability to perform academically on the doctoral level.

Finalists in the application process may be required to have a personal interview with the doctoral admission committee on the campus from which the student wishes to receive the degree.

Applicants should complete their admission portfolios, including a personal resumé and samples of their writing, particularly writing that has been published.

In addition to demonstrating evidence of academic competence and capability, those persons selected each year for this program will be applicants who are already considered leaders in their educative fields and who have clearly articulated their educational commitment to public schools. It is expected that the application process will be extremely competitive.

Any applicant meeting all other requirements for admission except minimum GPA or GRE scores may appeal to the Consortium Governing Board for admission in conditional status. The Board may admit to individual campuses, under these conditions, up to ten percent of the total number of students admitted during any semester/quarter. No student shall be admitted when the student's GRE test performance is in the lowest quartile among students taking the test on the same date.

Eligibility to Remain in the Doctor of Education Degree Program

Students enrolled in the doctoral program must maintain a minimum grade point average of 3.0 during each term of enrollment. Failure of the student to maintain an overall graduate grade point average of 3.0 or receipt of any grade lower than C in graduate coursework, may result in termination from the program. The student must successfully

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complete all coursework with a minimum grade point average of 3.25 and all experiential and examination requirements.

A graduate student who is denied admission to or further continuance in the Doctor of Education degree program may appeal for admission or readmission. All appeals must be approved by the appropriate committee on the student's campus of enrollment and by the Consortium Governing Board.

Program of Study for the Doctor of Education Degree

Coursework. The approved degree program for each doctoral student must include a minimum of 66 hours beyond the master's degree of which at least one half must be in coursework open only to doctoral students. Individuals possessing the Education Specialist Degree in the area in which they are pursuing the doctorate must complete a minimum of 51 additional semester hours of credit for the doctorate.

The consortium program for the Doctor of Education degree consists of the following components:

I. Education Foundations/Research/Statistics	15 semester hrs.
II. Core Courses for Specific Degree	24 semester hrs.
III. Cognate (C & I degree only)	9 semester hrs.
IV. Elective (Ed. Leadership only)	9 semester hrs.
V. Internship	6 semester hrs.
VI. Dissertation/Research Seminar	12 semester hrs.
Minimum Total hrs.	66 semester hrs.

Initial campus enrollment may not be changed during the student's matriculation in the doctoral program. Each student pursuing the doctorate through the Louisiana Education Consortium will be required to enroll in classes on the campus of each participating institution. A minimum of fifteen semester hours of the minimum sixty six hours required for the doctorate must be taken on the campuses of participating institutions other than the host campus. At least two courses must be taken on each campus.

Preliminary Examination. Upon completion of a minimum of fifteen semester hours and not more than 27 semester hours of doctoral coursework, each student will be required to take a Preliminary Examination. The Preliminary Examination is designed to measure student competence in 1) educational foundations, 2) research, 3) statistics and 4) general professional knowledge. This common six-hour written examination will be constructed by the three campus program directors. Following the evaluation of the written Preliminary Examination, an oral examination may be conducted by the program directors. Student performance on one or both components of this examination will form the basis for any revisions of the program of study. Failure to pass this examination after two attempts will result in termination of the student from the program.

Comprehensive Examination. The second doctoral examination, the Comprehensive Examination, is administered upon completion of all program coursework. This examination consists of a six-hour written component and a two-hour oral examination. Failure to satisfactorily complete this examination will result in a revision of the program of study and an additional examination. Failure to pass this examination after two attempts will result in termination of the student from the program. After satisfactory completion of the Comprehensive Examination, the student is admitted to candidacy.

Internship. The Louisiana Education Consortium is unique in preparing students to become practitioner-scholars. These individuals will apply the knowledge acquired in program components to practical settings. To achieve this goal, six semester hours of internship will be required. Students are eligible to apply for internship only after successful completion of the Comprehensive Examination. The internship must be completed at a site other than the student's place of employment. The student's Doctoral Committee will assist the student in internship placement.

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Dissertation. In addition to the research requirements associated with each course, all doctoral students are required to complete a dissertation. The dissertation should be directed toward the degree specialization and must include field-based research. Students are encouraged to pursue the identification of a dissertation topic and the review of the literature prior to the Comprehensive Examination. The dissertation prospectus must be approved by the student's Doctoral Committee after the Comprehensive Examination has been successfully completed. Other research requirements, for example, the use of human subjects, must be approved on the campus on which the student is enrolled.

The student will be expected to enroll for a minimum of three semester hours of dissertation credit for each semester/quarter in which the student is working with faculty on the dissertation. The student must be enrolled in a minimum of three semester hours of dissertation credit during the semester/quarter in which the degree is conferred. No less than nine semester hours of credit shall be earned for successful completion of the dissertation.

Following completion of the dissertation, the student will be expected to defend this scholarly work during a Dissertation Defense.

Doctoral Committee. The student's Doctoral Committee shall consist of the Major Professor and a minimum of three additional faculty. The Major Professor is the committee chair and must be selected from the institution in which the student is enrolled. Each institution shall have at least one representative on each doctoral committee. Each committee will include a professor from the cognate area (Curriculum and Instruction only). Additional committee members may be added to address specific student program or research needs. The student's Doctoral Committee is selected by the student, appointed by the appropriate administrator on each campus, and approved by the Consortium Board.

Residence Requirements for the Doctor of Education Degree

Students pursuing the Doctor of Education degree will be required to be enrolled for a minimum of 18 semester/quarter hours during a 12 month period. Students must be enrolled as full-time students during the time in which the residence requirement is being met.

Transfer of Credit for the Doctor of Education Degree

A maximum of 15 semester hours of post-master's graduate credit appropriate to the student's degree program may be transferred from other institutions offering regionally accredited graduate programs if earned in residence at that institution. No credits for which a grade of less than B has been earned may be transferred. Neither internship nor dissertation credit may be transferred into consortium programs.

Time Limit for the Doctor of Education Degree

All coursework, internships and the dissertation must be completed within a nine year time period from date of candidacy in the program. Courses taken or transferred into the doctoral program must be within a nine year time limit for completion. Any appeal for extension must be approved by the institution's Graduate Council and the Consortium Governing Board.

Requests for Time Extensions

To utilize graduate credit taken prior to the nine-year time limit, the student may request a time extension. These requests should be submitted before or during the semester in which the time limit expires. For further information please contact the Major Professor or the Graduate Studies School.

Policies and Procedures

Policies and procedures for the Louisiana Education Consortium Ed.D. are detailed in *The Louisiana Education Consortium Handbook*.

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**EDUCATIONAL LEADERSHIP AND COUNSELING
(Counseling Programs)**

**Strauss Hall 306
(318) 342-1246
Marriage and Family Therapy Center
3404 Bon Aire Drive
(318) 362-3008**

DEGREES: M.Ed. in Counseling
M.A. in Substance Abuse Counseling
M.A. and Ph.D. in Marriage and Family Therapy

Areas of specialization available include School Counseling or Community Counseling.

ACCREDITATION: The School Counseling program (M.Ed.), the Community Counseling program (M.Ed.), and the Marriage and Family Therapy program (M.A.) are accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). The Marriage and Family Therapy Program (M.A.) is also accredited by the Commission On Accreditation for Marriage and Family Therapy Education (COAMFTE). The Substance Abuse Counseling program (M.A.) meets the standards for, and is accredited as a Community Counseling program by CACREP.

CREDENTIALS DEADLINES: Individuals interested in applying for admission should contact the Educational Leadership and Counseling Department for an application packet for the degree and area of interest.

Enrollment in the M.Ed. in Counseling and the M.A. in Marriage and Family Therapy and Substance Abuse Counseling programs is limited and candidates for admission will be required to furnish, upon request, additional information to the Program Admissions Committee in the area of interest.

All application materials for the M.Ed. in Counseling and the M.A. in Substance Abuse Counseling must be on file before the applicant can be reviewed for admission. For the M.A. in Marriage and Family Therapy, all application material must be received by March 1 to be considered for the fall entering class.

All application materials for the Ph.D. in Marriage and Family Therapy must be received by February 1 to be considered for admission in the following Fall.

PROGRAM ADMISSION (M.Ed. in Counseling): Admission to the Master of Education Program in Counseling is at the discretion of the Program Admissions Committee of the Counseling Program. In addition to the University requirements for admission to the Graduate School at ULM, applicants for admission to the Master of Education degree program in Counseling will meet one of the following criteria:

1. A minimum undergraduate grade-point average of 2.8 overall or on the last sixty semester hours of undergraduate course work.
2. A minimum combined score of 900 on the GRE General Test (Verbal plus Quantitative).
3. A total of at least 1900 points based upon the formula-400 times the undergraduate grade-point average on the last sixty semester hours of undergraduate course work plus the combined GRE General Test score (Verbal plus Quantitative).

PROGRAM REQUIREMENTS (M.Ed. in Counseling): Requirements for a major: A 30 semester hour required core consisting of COUN 501, 505, 510, 522, 560, 562, 565, 581 (or Educational Foundations 581), 663, and 667, plus a minimum of 18 semester hours of specialty course work in either School Counseling or Community Counseling.

For School Counseling, required course work includes COUN 550, 566, 670 (6 semester hours in an approved setting), and 6 hours of electives approved by the major professor.

For Community Counseling, required specialty courses include COUN 521, 550, 564, 650D, and 670 (6 semester hours in an approved community counseling setting).

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Requirements for a minor: 12 semester hours of Counseling approved by the department head, including 510.

NOTE: The professional code of ethics requires that retention in this program depends on the student's personal and professional development as well as academic performance. The student will be asked to submit periodic assignments for assessment in this regard. Please consult the Department of Educational Leadership and Counseling for further information.

PROGRAM ADMISSION (M.A. in Substance Abuse Counseling): Admission to the Master of Arts program in Substance Abuse Counseling is at the discretion of the Program Admissions Committee of the Substance Abuse Counseling Program. In addition to the University requirements for admission to the Graduate School at ULM, applicants for admission to the Master of Arts degree program in Substance Abuse Counseling will meet one of the following criteria:

1. A minimum undergraduate grade-point average of 2.8 overall or 2.8 on the last 60 semester hours of undergraduate course work.
2. Completion of a previous graduate degree with a graduate grade-point average of 3.0.
3. A minimum combined score of 900 on the GRE General Test (Verbal plus Quantitative).
4. A total of at least 1900 points based upon the formula—400 times the grade point average on the last 60 hours of undergraduate course work, plus the combined GRE General Test Score (Verbal plus Quantitative).

PROGRAM REQUIREMENTS (M.A. in Substance Abuse Counseling): Requirements for a major: Counseling 501, 505, 510, 521, 522, 560, 562, 663, 667, 668; Counseling or Educational Foundations 581; Substance Abuse Counseling 525, 535, 540, 555, 565, 633; 6 semester hours of Substance Abuse Counseling 670, and 3 semester hours of electives approved by the major professor for a total of 60 semester hours. A total of 600 clock hours clinical internship must be approved and documented by the Program Director of the Substance Abuse Counseling program. A thesis is optional.

NOTE: The professional code of ethics requires that retention in this program depends on the student's personal and professional development as well as academic performance. The student will be asked to submit periodic assignments for assessment in this regard. Please consult the Department of Educational Leadership and Counseling for further information.

PROGRAM ADMISSION (M.A. in Marriage and Family Therapy): Admission to the Master of Arts degree program in Marriage and Family Therapy is at the discretion of the Program Admissions Committee of the Marriage and Family Therapy Program. In addition to the University requirements for admission to the Graduate School at ULM, applicants for admission to the Master of Arts degree program in Marriage and Family Therapy will meet one of the following criteria:

1. A minimum undergraduate grade-point average of 2.8.
2. A minimum combined score of 900 on the GRE General Test (Verbal plus Quantitative).
3. A total of at least 1900 points based upon the formula—400 times the overall undergraduate grade-point average plus the combined GRE General Test score (Verbal plus Quantitative).

PROGRAM REQUIREMENTS (M.A. in Marriage and Family Therapy): Undergraduate requirements: 18 semester hours of behavioral science to include Psychology 401 and 406 or equivalent.

Requirements for a major: Counseling 505, 522, 560, 562, 581, 663, 667; Marriage and Family Therapy 502, 510, 520, 521, 608, 610, 620, 662, 665, 666; 9 semester hours of Marriage and Family Therapy 670; for a total of 60 semester hours. A total of 500 client contact hours must be approved and documented by the Clinical Director of the Marriage and Family Therapy program. A thesis is optional.

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THE DOCTOR OF PHILOSOPHY IN MARRIAGE AND FAMILY THERAPY

The Doctor of Philosophy Degree in Marriage and Family Therapy from the University of Louisiana at Monroe prepares graduates for careers as scholars/teachers, researchers, supervisors, and senior clinicians. The Marriage and Family Therapy doctorate is a 69 credit hours (minimum) post master's degree which integrates a systemic oriented philosophy and theory, clinical practice, qualitative research, and quantitative research.

Program Admission: Admission to the Ph.D. program in Marriage and Family Therapy is a two-stage process: (1) An applicant must first meet the requirements for admission to the University and the Graduate School; (2) Specific program requirements must also be met.

Students admitted to the program will have successfully completed a master's degree program from a regionally accredited institution. Students must complete the standard curriculum of a Council of Accreditation for Marriage and Therapy Education (COAMFTE) accredited master's degree program prior to the doctoral curriculum.

Students may be admitted who do not have all of the above course work. However, they will be required to complete studies in these areas in addition to the standard doctoral course work.

Applicants who are accepted for Fall admission and who are interested in taking classes prior to beginning the program may obtain permission to take Master's level electives and prerequisite course work as post-graduate students. Students accepted who do not possess a strong background in systemic approaches to family therapy must take MAFT 610, Introduction to Marriage and Family Therapy, in the summer preceding the formal beginning of the program.

Priority will be given applicants with:

- A minimum cumulative graduate grade point average of at least 3.50.
- Minimum graduate record examination score of 1,000 (Verbal and Quantitative).

All applicants must:

- Submit three letters of recommendation from professional colleagues who are familiar with her/his character, clinical skills, and ability to perform academically on the doctoral level. Where possible these should include former professors, clinical supervisors, and/or administrators familiar with your training and subsequent practice.
- Complete the admission portfolios and submit them prior to the deadline for admission.
- Demonstrate evidence of both academic competency and clinical skills or the potential for clinical competency.
- Present evidence of relevant work experience.

Finalists in the application process will be required to have a personal interview with the MFT doctoral admissions committee.

Eligibility to Remain in the Ph.D. Program: Students enrolled in the doctoral program must maintain a minimum grade point average of 3.0 during each semester of enrollment. Failure of the student to maintain an overall graduate grade point average of 3.0 or receipt of any grade lower than C in graduate course work, will result in termination from the program and further graduate work at the University of Louisiana at Monroe.

A graduate student who is denied admission to, or further continuance in the Doctor of Philosophy program may appeal for admission or readmission. An appeal must conform to the requirements of the Graduate School and the College of Education and Human Development.

Program Requirements: At the time of admission, the student shall consult with his/her advisory committee to determine what "leveling" course work from their Master's curriculum (if any) will need to be completed prior to pursuing advanced marriage and family therapy studies.

COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT 77

The core curriculum (required post master's degree courses) for the Ph.D. in Marriage and Family Therapy includes MAFT 700, 702, 710, 712, 714, 720, 722, 724, 730, 740, 742, 746, 750 (1-3 cr. per term of enrollment, minimum of 6 cr. required), 752 (6), 799 (12), Educational Foundations 691, and 6 semester hours of MAFT electives at the 600 level approved by the Major Professor.

Residence Requirements: Students must enroll full time in the program. Beginning with the initial semester of enrollment, students must be in continuous full-time residency for a minimum of 21 months (completing the first 6 terms of study as defined above).

Preliminary Examination: Upon completion of twelve semester hours of study, each student will be required to take a Preliminary Examination. The examination is designed to measure student competency in the subject matter of the first 12 hours of course work. Following the evaluation of the written Preliminary Examination, an oral examination will be conducted by the Marriage and Family Therapy faculty. Student performance on both components of this examination will form the basis for any revisions of their program of study. Failure to pass this examination after two attempts will result in termination of the student from the program.

Comprehensive Examination: The Comprehensive Examination is administered upon the completion of all required course work. This examination consists of a written as well as an oral examination. Failure to successfully complete any part of this examination will result in a revision of the program of study and an additional examination. Failure to pass all sections of this examination after two attempts will result in termination of the student from the program. After satisfactory completion of this examination, the student may then apply for candidacy status.

The Clinical Experience: The clinical experience shall consist of a minimum of twelve semester hours. These shall be designated as follows:

- Six semester hours of practicum minimum. These one credit hour experiences shall be obtained in a minimum of six consecutive semesters as defined in the outline of the course of study. This clinical experience shall be obtained at the ULM Marriage and Family Clinic.
- Six semester hours of internship minimum. These internship hours shall be obtained over a continuous nine to 12 month experience and shall consist of not fewer than thirty hours per week. This internship will include a minimum of five hundred client contact hours and one hour per week of individual supervision. It is expected that this clinical experience will generally follow the marriage and family therapy course work and will be free of other educational and professional demands. Designed to approximate the intensity of full-time clinical practice, the internship will offer students the opportunity to experience the full range of activities associated with clinical practice. The Director of Clinical Training will work in close conjunction with the on-site approved supervisor. All supervision will be provided by an appropriately designated AAMFT approved supervisor (or the equivalent). A contract detailing expectations and requirements for the internship experience will be signed by all parties before student placement at the internship site.

Dissertation: In addition to the research course requirements, all doctoral students are required to complete a dissertation. Dissertation topics will be related to the field of marriage and family therapy or marriage and family studies. Students are encouraged to pursue the identification of a dissertation topic and the review of the literature prior to the Comprehensive Examination (typically this can be done while taking MAFT 746). The dissertation proposal may be approved by the student's Dissertation Committee after the Comprehensive Examination has been successfully completed.

The student is expected to enroll continuously for a minimum of three semester hours of dissertation credit each semester until completion of the dissertation. The student must

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register for a minimum of twelve semester hours of dissertation credit during his/her program. Following satisfactory completion of the dissertation as determined by the dissertation committee, an oral defense is required. The dissertation, with recommended changes, will then be submitted to the Graduate School for final approval.

Dissertation Committee: The student's Dissertation Committee shall consist of the Dissertation Chair and a minimum of three additional members who are representative of the general field of study in which the student expects to perform his/her work. The Dissertation Committee Chair must be selected from the ULM Marriage and Family Therapy graduate faculty and hold the credential of "full member" status on the graduate faculty. The student's Dissertation Committee is selected by the student in collaboration with the Dissertation Chair, and must be approved by the College of Education and Human Development Graduate Studies Committee, the Dean of the College of Education and Human Development, and the Dean of the Graduate School. Each member must hold credentials as a member or associate member of the graduate faculty.

Transfer of Credit: A maximum of nine semester hours of graduate credit appropriate to the student's degree program may be transferred from other institutions offering regionally accredited graduate programs. Courses transferred into the ULM doctoral program must have been completed within three years prior to admission. No credits for which a grade of less than a B has been earned may be transferred. Neither internship nor dissertation credit may be transferred into the ULM program.

Time Limit for the Ph.D. in Marriage and Family Therapy: All course work, internships, and the dissertation must be completed within a six-year time period from the date of the first registration in the program. Any appeal for extension beyond the six year requirement must be approved by the Dean of the Graduate School and by the Marriage and Family Therapy Doctoral Faculty.

Policies and Procedures: Policies and procedures for the ULM Marriage and Family Therapy Ph.D. Program are detailed in the program handbook.

EDUCATIONAL LEADERSHIP AND COUNSELING (Educational Leadership Programs)

**Strauss Hall 306
(318) 342-1246**

DEGREES: M.Ed. in Educational Leadership, M.Ed. in Educational Technology Leadership and Ed.D. in Educational Leadership (see Doctor of Education)

CREDENTIALS DEADLINES: Individuals interested in applying for admission should contact the Department of Educational Leadership and Counseling for an application packet for the degree and area of interest.

PROGRAM ADMISSION (M.Ed. in Educational Leadership): In addition to the University requirements for admission to the Graduate School at ULM, applicants for admission to the Master of Education in Educational Leadership program must present a combined score of 1875 on a scale computed by multiplying the undergraduate grade-point average by the combined Graduate Record Examination Test score (Verbal plus Quantitative) in order to qualify for "Regular Status." Students scoring between 1650 and 1875 (GRE X GPA) may be admitted on "Conditional Status."

Candidates for admission will be required to furnish additional information to the Department of Educational Leadership and Counseling. Requested material must be on file before the applicant can be reviewed for admission.

COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT 79

PROGRAM REQUIREMENTS (M.Ed. in Educational Leadership): A candidate for this degree and certification or alternative certification, must hold a valid teacher's certificate issued by the Louisiana Department of Education or its equivalent, have a minimum of 2.5 undergraduate GPA, complete the Graduate Record Examination (GRE) with an appropriate formula score and pass the state examinations specified. Candidates must be able to effectively utilize instructional leadership technology before progressing beyond the Teacher Leader Endorsement. Completion of the following courses and passing the necessary examinations will qualify the candidate/graduate for Louisiana certification as Teacher Leader preK-12, Instructional Supervisor, Child Welfare and Attendance Officer, Supervisor/Director of Special Education, and Superintendent of Schools: EDLE 500, EDLE 505 (satisfactory completion of the above tier I courses, Teacher as a School Leader, qualifies the candidate for a Teacher Leader Endorsement), EDLE 510, EDLE 515, EDLE 520, EDLE 530, EDLE 535, EDLE 540, (Tier II, Leader as Facilitator of Instruction and School Improvement), EDLE 545, EDLE 550, EDLE 555, EDLE 560 (Tire III, Leader as manager).

PROGRAM ADMISSION (M.Ed. in Educational Technology Leadership): In addition to the University requirements for admission to the Graduate School at ULM, applicants for admission to the Master of Education in Educational Leadership program must present a combined score of 1875 on a scale computed by multiplying the undergraduate grade point average by the combined Graduate Record Examination Test score (Verbal plus Quantitative) in order to qualify for "Regular Status." Students scoring between 1650 and 1875 (GRE X GPA) may be admitted on "Conditional Status."

Candidates for admission will be required to furnish additional information to the Department of Educational Leadership and Counseling. Requested material must be on file before the applicant can be reviewed for admission.

PROGRAM REQUIREMENTS (M.Ed. in Educational Technology Leadership): A candidate for this degree and certification or alternative certification must have a minimum of 2.5 undergraduate GPA, complete the Graduate Record Examination (GRE) with an appropriate formula score and pass the state examinations where specified, and show instructional technology competency before admission to the program.

Basic core requirements for Educational Technology Leadership: 24 semester hours including Educational Instructional Technology (EDIT) EDIT 525, EDIT 555, EDIT 625, EDIT 626, EDIT 627, EDIT 628, EDIT 680, and EDIT 683.

Students enrolled in Educational Technology Leader P-12 track must hold a valid Type B Louisiana Teaching Certificate (which requires three years of teaching experience). Additional requirements include Educational Leadership (EDLE) EDLE 500, EDLE 505, EDLE 515, and CURR 518.

No teaching certificate is required for students enrolled in Educational Technology Leader non-P12 track. Additional requirements for Educational Technology Leader Non-P12 include EDIT 524 and 528; CSCI 503; and PSYC 507.

KINESIOLOGY

Fant-Ewing Coliseum 39
(318) 342-1305

DEGREES: M.S. in Exercise Science.

SPECIALIZATION AREAS: Clinical Exercise Physiology
Applied Exercise Physiology

PROGRAM ADMISSION: In addition to the University requirements for admission to the Graduate School at ULM, all applicants must present a combined score of 2200 on a scale

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which is found by multiplying their total undergraduate grade-point average by the combined Graduate Record Examination General Test score (Verbal plus Quantitative) in order to qualify for "Regular Status." Students scoring between 2100 and 2199 (GRE X GPA) may be admitted on "Conditional Status."

PROGRAM REQUIREMENTS: Undergraduate requirements for a major: 24 semester hours from exercise science/kinesiology related courses including at least 3 semester hours from each of the following areas: exercise physiology, anatomical/biomechanical kinesiology, athletic injuries, biology/zoology, and chemistry. The student may not enroll in more than 12 graduate hours until all undergraduate prerequisites are met.

SPECIALIZATION AREAS AND DEGREE REQUIREMENTS: Specialization areas in Exercise Science are Clinical Exercise Physiology and Applied Exercise Physiology. A student's plan of study must be approved by the major professor and graduate advisory committee.

Requirements for the Master of Science in Exercise Science (Clinical Exercise Physiology): 36 semester hours in the area of exercise science including EXSC 504, 505, 507, 510, 512, 524, 530, 538, 539, 527 and 6 hours of internship (EXSC 595) in a facility with a clinical population. This specialization area covers the knowledge, skills and abilities expected for American College of Sports Medicine certification at the Exercise Specialist level. Students are expected to take the ACSM exercise specialist examine prior to graduation.

Requirements for the Master of Science in Exercise Science (Applied Exercise Physiology): 36 semester hours in the area of exercise science including EXSC 504, 505, 507, 510, 512, 524, 530, 538, 539, 527, and 6 hours of internship (EXSC 595), thesis (EXSC 599) or a combination of both.

MINOR REQUIREMENTS: Undergraduate course prerequisites for a graduate minor: 18 semester hours of exercise science/kinesiology related courses.

Course requirements for a graduate minor: 12 semester hours of Exercise Science, including EXSC 504, 505, 530, and 510.

AMERICAN COLLEGE OF SPORTS MEDICINE PROGRAM ENDORSEMENT: The Master of Science Degree in Exercise Science at ULM has been endorsed by the American College of Sports Medicine at the Exercise Specialist level. Students completing the Clinical Exercise Physiology specialization will be exempt from the practical section of the ACSM Exercise Specialist Exam.

CAAHEP ACCREDITED PROGRAM: The M.S. specialization in Clinical Exercise Physiology is accredited by the Commission on Accreditation of Allied Health Education Programs.

PSYCHOLOGY

Strauss Hall 314

(318) 342-1330

DEGREES: M.S. in Psychology
Specialist in School Psychology

MINOR REQUIREMENTS: A minor in Psychology may be earned by students pursuing a Master of Education degree. Undergraduate course prerequisites for a graduate minor: 12 semester hours of psychology, including 201.

Graduate course requirements for a graduate minor: 12 semester hours of psychology.

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PROGRAM ADMISSION (M.S.): In addition to the University requirements for admission to the Graduate School at ULM, applicants for admission to the Master of Science in Psychology degree program will meet **two** of the following criteria:

1. A minimum cumulative grade-point average of 2.75.
2. A minimum combined score of 900 on the GRE General Test (Verbal plus Quantitative).
3. A total of at least 1900 points based upon the formula—400 times the overall undergraduate grade-point average plus the GRE General Test score (Verbal plus Quantitative).

Applicants who fail to meet the above standards may be admitted on conditional status by the recommendation of the Committee on Admissions of the Psychology Department in concert with the Dean of the Graduate School.

PROGRAM REQUIREMENTS (M.S.): Undergraduate requirements: 18 semester hours of psychology, including at least 3 semester hours from each of the following areas: experimental psychology, statistics, and tests and measurements. The student will not be allowed to take more than 12 graduate hours until all undergraduate prerequisites are completed.

The Master of Science in Psychology offers specializations or specialized tracks in School Psychology, Psychometrics, and Experimental Psychology. Basic core requirements common to all tracks are PSYC 522(3), 523(3), 534(3), 509(3), 552(3), 561(3), and 599(6). The Experimental track requires the addition of PSYC 502(3), and 9 hrs. of electives for a total of 36 hours. Required courses common to both the School and Psychometric track include PSYC 511(3), 515(3), and 571(3). An additional course, of PSYC 503(3) is required in the School Psychology track for a total of 36 hours. Courses required for the Psychometric Psychology track in addition to those listed in basic core requirements and those common to other tracks is PSYC 518(3) for a total of 36 hours.

PROGRAM ADMISSION (S.S.P.): In addition to meeting the general requirements for admission to the Graduate School, the applicant must have completed at least 18 hours of psychology courses including experimental psychology, statistics, tests and measurements, exceptional children, and theories of personality. Additional courses in history and systems, and physiological psychology are highly recommended. The student must also meet **two** of the following criteria:

1. A minimum cumulative undergraduate grade-point average of 3.00.
2. A minimum combined score of 900 on the Graduate Record Examination General Test (Verbal plus Quantitative);
3. A total of at least 2000 points based upon the formula—400 times the overall undergraduate grade-point average plus the Graduate Record Examination General Test score (Verbal plus Quantitative).

Post-master's degree applicants must present a minimum grade-point average of 3.25 on previous graduate work. Students having previously earned master's degrees in psychology or a related field and those with post-master's practical experiences will be evaluated individually to determine suitability for admissions to the specialist in school psychology program and to develop a degree plan appropriate to the student's background. Applicants who fail to meet the above standards may be admitted by the recommendation of the Committee on Admissions of the Psychology Department and with the approval of the Dean of the Graduate School.

PROGRAM REQUIREMENTS (S.S.P.): Degree candidates must complete a minimum program of 54 semester hours of graduate course work, and in addition, complete an internship (12 semester hours), and a thesis (6 semester hours). A Master of Science

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degree in Psychology is conferred during the program following the completion of at least 36 semester hours, the successful completion of part one of the comprehensive examination, and the completion of the thesis.

When a student is admitted to the Specialist in School Psychology degree program, the Dean of the Graduate School, upon the recommendation of the Department Head, will appoint a major professor. Upon recommendation of the major professor, the Dean of the Graduate School will appoint a graduate advisory committee composed of the student's major professor and two other faculty members. The graduate advisory committee will prepare a formal degree program subject to the approval of the Dean of the Graduate School.

Requirements for the Specialist in School Psychology Degree

A student must earn a minimum grade-point average of 3.0 based on a 4.0 system on all work pursued for the degree, with no grade lower than a C, and no more than six semester hours credit with a grade of C. The student must pass written and oral comprehensive examinations. Field and practicum experiences (400 hours) and an internship (1250 hours) are required. In addition, students must present official scores on the appropriate national examination for school psychology prior to graduation. The student must present four acceptable copies of the thesis in final form and one additional copy of the abstract to the Graduate School by the deadline date as stated in the University Calendar of the Graduate Catalog. For the entering post-master's student, a thesis written as part of the master's degree may be accepted at the discretion of the departmental School Psychology Training Committee and the Director of Graduate Studies and Research. The departmental School Psychology Training Committee and the Dean of the Graduate School may waive a portion of the internship and practicum requirements for the student with previous academic credit for an internship and two years of work experience as a certified school psychologist. The student advisory committee must certify that all requirements for the degree have been completed. The certification must be approved by the Graduate Dean.

Residence Requirements for the Specialist in School Psychology Degree

Students having previously earned the master's degree must enroll for a minimum of one semester or two summer terms as a full-time student at The University of Louisiana at Monroe. Pre-master's level students must enroll for a minimum of two semesters as a full-time student.

Time Limit for the Specialist in School Psychology Degree

The program requirements must be completed within six years beginning with the first Fall or Spring semester enrolled following admission to the Specialist in School Psychology.

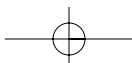
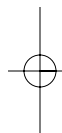
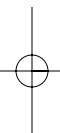
Requests for Time Extensions

To utilize graduate credit taken prior to the six-year time limit, the student may request a time extension. These requests should be submitted before or during the semester in which the time limit expires. For further information please contact the Major Professor, the Graduate Studies and Research Office, or the Coordinator of Graduate Studies for the particular major and college involved.

Transfer of Credit

Pre-master's graduate students may be permitted to transfer a maximum of six semester hours. Transfer credit for students having earned a Master's degree and post-master's work will be determined by the departmental School Psychology Training Committee with the approval of the Graduate Dean.

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COLLEGE OF HEALTH SCIENCES

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**Caldwell Hall 210
(318) 342-1622**

DEGREES: No degree is offered. Graduate courses are available for students working toward degrees in other disciplines.

SPEECH-LANGUAGE PATHOLOGY

**Brown Hall 138
(318) 342-1392**

DEGREES: M.S. in Speech-Language Pathology

ACCREDITATION: The graduate program is accredited by the Council of Academic Accreditation of the American Speech-Language-Hearing Association in speech-language pathology.

CREDENTIALS DEADLINES: All official transcripts, GRE scores, and three recommendations are required. Departmental receipt deadlines are February 25 for Fall admission and September 25 for Spring admission.

PROGRAM ADMISSION: In addition to the University requirements for admission to the Graduate School at ULM, applicants for admission to the Master of Science in Speech-Language Pathology degree program must meet at least two of the following criteria:

1. A minimum cumulative grade-point average of 2.5.
2. A minimum combined score of 800 on the GRE General Test (Verbal plus Quantitative).
3. A combined score of 1875, determined by multiplying the total undergraduate grade-point average by the combined GRE General Test Scores (Verbal plus Quantitative).

Admission is selective and competitive. Applicants who fail to meet the above standards may be admitted on conditional status as recommended by the Graduate Admission and Retention Committee of the Department of Speech-Language Pathology in concert with the Dean of the Graduate School.

PROGRAM REQUIREMENTS: Undergraduate requirements: 51 semester hours in the area of speech-language pathology.

Requirements for a major (Non-thesis): 37 semester hours of coursework within the area of speech-language pathology, including Speech-Language Pathology 505 and excluding clinic and internship.

Requirements for a major (Thesis): 45 semester hours in the area of speech-language pathology, including Speech-Language Pathology 505 and 6 semester hours of 599 (Thesis).

A student's plan of study is to be determined with the guidance of a major professor. Students seeking the Certificate of Clinical Competence from the American Speech-Language-Hearing Association must meet the academic coursework and clinical practicum requirements established for such certification prior to graduation.

NURSING

**School of Nursing
Nursing Building 131
(318) 342-1644**

DEGREES: No degree is offered. Graduate courses are available for students working toward degrees in other disciplines.

COLLEGE OF HEALTH SCIENCES 87

ACCREDITATION: The School of Nursing is accredited by the Commission on Collegiate Nursing Education (CCNE), One Dupont Circle, NW, Suite 530, Washington, DC 20036-1120.

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COLLEGE OF PHARMACY

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PHARMACY

College of Pharmacy

Sugar Hall 151

(318) 342-1600

DEGREES: M.S. in Pharmaceutical Sciences

Ph.D. in Pharmacy

Areas of specialization available for the master's degree include Hospital Pharmacy, Medicinal Chemistry, Pharmaceutics, Pharmacognosy, Pharmacology, Pharmacology/Toxicology, Pharmacy Administration, and Toxicology.

Areas of specialization available for the doctoral degree include Medicinal Chemistry, Pharmaceutics, Pharmacognosy, Pharmacology, Pharmacology/Toxicology, Pharmacy Administration, and Toxicology.

ACCREDITATION: The College of Pharmacy is accredited by The American Council on Pharmaceutical Education.

PROGRAM ADMISSION (M.S.): Graduate programs in the pharmaceutical sciences are offered in the areas of Hospital Pharmacy, Medicinal Chemistry, Pharmaceutics, Pharmacognosy, Pharmacology, Pharmacology/Toxicology, Pharmacy Administration, and Toxicology. Students seeking admission to the program of study in Hospital Pharmacy must have an undergraduate degree in pharmacy.

An applicant must meet the requirements for admission to the University and the Graduate School and should submit a minimum score of 2500 on a scale determined by multiplying the undergraduate grade-point average (4.0 system) by the combined quantitative and verbal scores on the Graduate Record Examination (GRE) General Test. The results of the Graduate Management Admission Test (GMAT) multiplied by a factor of 2.2 may be utilized in lieu of the combined GRE score in the foregoing scale computation to determine the eligibility of applicants for admission in the area of Pharmacy Administration. Achievement of the minimum score of 2500 does not guarantee admission. All applicants must apply for regular degree status for admission and be reviewed and recommended for admission by the Graduate Studies Committee.

Upon the recommendation of the Graduate Studies Committee and the Dean, applicants may enroll in a Non-thesis Master of Science degree program in the areas of hospital pharmacy, pharmacy administration, or toxicology.

Applicants not qualified for admission as noted above cannot be conditionally admitted to a nondegree status.

PROGRAM REQUIREMENTS (M.S.): Requirements for a major: A minimum of 30 semester hours above the baccalaureate degree. Of the minimum 30 graduate hours, no more than three hours of credit will be applied for seminars and directed study credit on the degree plan. The remaining hours must be structured course work of which 60 percent must be in 500 level courses.

A candidate for the Master of Science degree in the pharmaceutical sciences whose major area of study is either hospital pharmacy, pharmacy administration, or toxicology pursuing a program of study having a non-thesis option must complete a minimum of 36 semester hours above the baccalaureate degree and successfully complete an appropriate field study. With the exceptions of the semester hour minimum, thesis, and thesis defense, all other degree requirements are applicable to the non-thesis program.

PROGRAM ADMISSION (Ph.D.): The Doctor of Philosophy degree in Pharmacy is awarded by the Graduate School through the College of Pharmacy. Students must select a major specialization from among the areas of Medicinal Chemistry, Pharmaceutics, Pharmacognosy, Pharmacology, Pharmacology/Toxicology, Pharmacy Administration, and Toxicology.

COLLEGE OF PHARMACY 91

The program leading to the degree normally shall be the equivalent of not less than three years of graduate study beyond the baccalaureate degree.

The applicant should have a Master's degree from an accredited institution; however, exceptional students with a baccalaureate degree may be admitted.

Full-time faculty members on continuing appointment at The University of Louisiana at Monroe Louisiana University will not be admitted to doctoral programs offered through their department at the University.

General Requirements for the Doctor of Philosophy Degree

An applicant must meet the requirements for admission to the University and the Graduate School and should submit a minimum score of 3000 on a scale determined by multiplying the undergraduate grade-point average (4.0 system) by the combined verbal and quantitative scores on the Graduate Record Examination General Test (GRE). The results of the Graduate Management Admission Test (GMAT) multiplied by a factor of 2.2 may be utilized in lieu of the combined GRE score in the foregoing scale computation to determine the eligibility of applicants for admission in the area of Pharmacy Administration. Achievement of the minimum score of 3000 does not guarantee admission. All applicants must apply for regular degree status for admission and be reviewed and recommended for admission by the College of Pharmacy Graduate Studies Committee.

After admission to the degree program by the Graduate School, the student is referred to the Department Head in his area of interest. The Department Head may assist the student in the selection of course work for the first semester or assign the student to a temporary major professor for initial advising.

During the first semester of residence, the student should select a faculty member who shall act as the major professor of his graduate advisory committee and direct the student's research. Original research is an integral part of the Doctor of Philosophy program. As soon as possible, but not later than the second regular semester of enrollment, the student with his advisory committee must file an approved dissertation topic with the department head. The graduate advisory committee shall consist of not less than four approved members of the graduate faculty and be mutually acceptable to the student and the committee members, including the major professor. The committee members must be representative of the general field of study in which the student expects to perform his work. The major professor and the graduate advisory committee must be approved by the College of Pharmacy Graduate Studies Committee, the Dean and the Dean of the Graduate School.

Although there are specified course requirements which must be completed for the Doctor of Philosophy degree, the degree is not awarded on the basis of time spent in the program or following the completion of any specific number of formal courses. The Doctor of Philosophy degree is not granted on the basis of miscellaneous course studies and research effort, but the program must be competency based and research oriented to produce a dissertation of literary and scholarly merit denoting the student's capacity for original, independent research in a particular field of specialization pertaining to one of the pharmaceutical sciences.

Program of Study for the Doctor of Philosophy Degree

The program and courses of study for the Doctor of Philosophy degree will be organized to meet the student's special needs as determined by the student and his graduate advisory committee. The graduate advisory committee is composed of faculty members who work closely with their students.

Under the direction of the major professor, a degree plan for the Doctor of Philosophy degree must be prepared by the student with the graduate advisory committee no later than the second semester after enrollment into the degree program. It will involve a minimum of 30 semester hours of structured coursework, excluding seminars, dissertation

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research and directed study. Of the minimum 30 hours, 80 percent must be in 500 level courses.

The degree plan must have the approval of the student's graduate advisory committee, the College of Pharmacy Graduate Studies Committee, and be reviewed by the department head. Final approval is granted by the Dean of the Graduate School. The forms for filing the degree plan are obtained from the office of the Dean of the College of Pharmacy.

Any changes in the original degree plan, including the dissertation title, are to be submitted in the same procedure as the original plan.

To fulfill the course requirement for the Doctor of Philosophy degree, the candidate shall present an average of not less than B on all graduate work pursued and all work in the major field, with no grade lower than C and not more than six semester hours of credit with a grade of C.

After approximately 80 percent of the degree plan has been completed, the student must complete the general examinations, oral and written, administered by the student's advisory committee. The results of these written and oral examinations are reported to the Graduate School by the student's graduate advisory committee with one of the following recommendations: 1) the student's admission to candidacy; 2) continued study with or without additional course work included in the degree plan followed by re-examination; or 3) dismissal from the program. If the student does not pass the general examinations but is continued in graduate work, one semester or one summer term must elapse before another examination is administered. Only one re-examination is permitted.

Therefore, a candidate for the Doctor of Philosophy must meet the following requirements for the degree:

1. Maintain a B average or better on all course work where final grades have been awarded and receive no grade less than C.
2. Successfully complete the general examinations.
3. Successfully complete and defend the doctoral dissertation.

Residence Requirements for the Doctor of Philosophy Degree

A student must earn a minimum of 30 semester hours of graduate credit (exclusive of dissertation, seminar, and special problem credit) in continuous full time residence including not less than two consecutive regular semesters. The 30 semester hours of credit will consist of not less than 80 percent in 500 level courses.

Transfer of Credit for the Doctor of Philosophy Degree

A maximum of 15 semester hours of residence graduate credit beyond the master's degree, earned prior to admission to the doctoral program, may be accepted by transfer from accredited institutions which offer the doctor's degree, provided that each course grade is B or better. Such credit must be acceptable in meeting requirements for the doctor's degree at the institution where the credit was earned, and must be applicable to the student's advanced degree program. Transferred credit cannot be used to reduce the minimum residence requirements. A portion of the general examination will be devoted to the testing of the student's knowledge of the courses involved in transfer credit.

Time Limit for the Doctor of Philosophy Degree

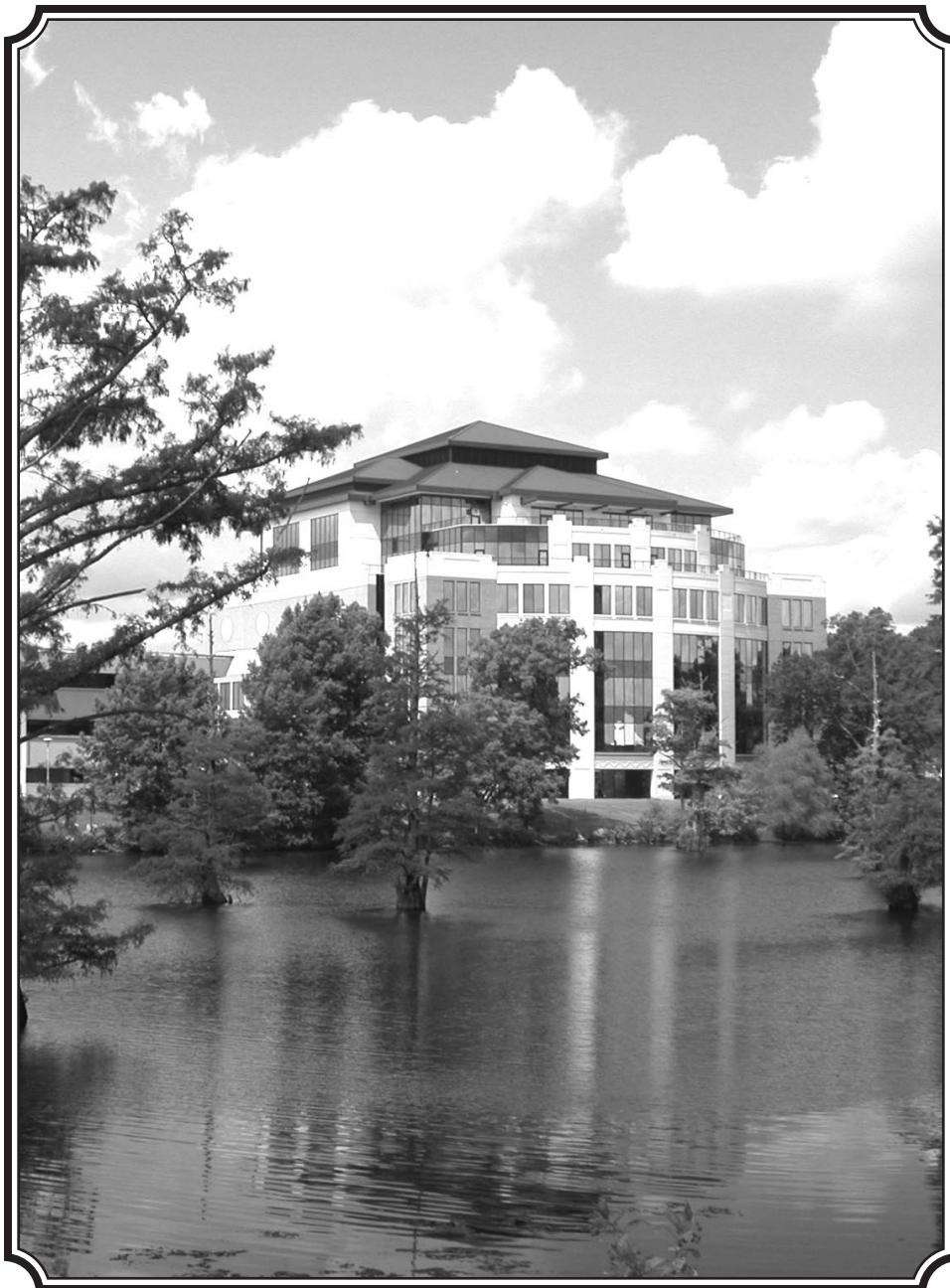
After admission to the program leading to the Doctor of Philosophy degree, a student will be permitted six calendar years in which to complete all remaining requirements for the degree. All work applied to degree requirements, including transferred credit and prior the University of Louisiana at Monroe credit, must have been completed within the nine calendar years immediately preceding the date the degree is conferred. This time limit includes work submitted as part of the requirements for a master's degree.

COLLEGE OF PHARMACY 93

Requests for Time Extensions

To utilize graduate credit taken prior to the nine-year time limit, the student may request a time extension. These requests should be submitted before or during the semester in which the time limit expires. For further information please contact the Major Professor or the Graduate School.

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GRADUATE COURSES

To receive graduate credit for a course designated "For Undergraduate and Graduates," a student must be in graduate admission status at the time credit is earned in the course. Credit earned in undergraduate admission status cannot be changed to graduate credit.

ACCOUNTING (ACCT)

For Undergraduates and Graduates

- 421. ADVANCED AUDITING. 3 cr.** Auditing procedures and practices with special emphasis on the CPA examination. Prerequisite: Minimum grade of C in 420 or permission of department head.
- 430. THEORY. 3 cr.** Accounting principles and procedures and the theoretical framework on which they rest; selected specialized topics; emphasis on publications of the AICPA and AAA. Prerequisite: Minimum grade of C 311 or permission of department head.
- 431. ADVANCED INCOME TAX. 3 cr.** Income tax applicable to partnerships and corporations; various other taxes; research of tax problems. Prerequisite: Minimum grade of C in 330 or permission of department head. Sp.
- 432. GOVERNMENTAL. 3 Cr.** Accounting, reporting, and auditing as related to governmental and other not-for profit organizations. Prerequisite: Minimum grade of C in 310; credit or registration in 311. F.

For Graduates Only

- 501. ADVANCED THEORY. 3 cr.** Development of accounting thought; critical analysis of current accounting theory and practices; selected readings on special topics; study of AICPA and AAA publications. Prerequisites: 311.
- 502. ACCOUNTING FOR ADMINISTRATORS. 3 cr.** Use of accounting information for decision making in business and governmental organizations. Intended for graduate students having no previous credit in accounting courses. Not applicable as an elective toward the MBA.
- 503. TAX CONCEPTS FOR DECISION MAKING. 3 cr.** Research and presentation of topics in Taxation. Study will focus on the importance of tax considerations in business planning and decision making. Prerequisites: 211 or 213 or 502.
- 591. DIRECTED STUDY. 3 cr.** Individual study of advanced accounting topics, under the direction of a Senior Faculty Member. Prerequisites: Twelve semester hours of BMBA courses and a minimum graduate GPA of 3.5.

ADULT EDUCATION (ADED)

For Undergraduates and Graduates

- 402. FOUNDATIONS OF ADULT EDUCATION. 3 cr.** A comprehensive study of Adult Education with emphasis on historical background and current developments, Adult Education and Literacy Acts, teacher certification, extent and consequences of illiteracy, characteristics of adult learners, special-needs groups, and resources. Prerequisite: For graduate credit, a valid Louisiana teaching certificate or permission of the department head.
- 410. METHODS AND MATERIALS IN ADULT EDUCATION. 3 cr.** The course will aid teachers in developing skills, techniques and strategies for teaching basic skills to the adult learner. There will also be a focus on organizing instructional materials to promote effective learning. Prerequisite: For graduate credit, a valid Louisiana teaching certificate or permission of the department head. (Formerly Curriculum and Instruction 410.)
- 488. PRACTICUM IN ADULT EDUCATION. 3 cr.** Program to give supervised teaching experience in a variety of Adult Education settings. Must meet all other eligibility requirements for Louisiana Teaching Certificate in field of study to earn graduate credit and grade. Prerequisites: 402, 410.

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AGRICULTURE (AGRI)

For Undergraduates and Graduates

- 403. PLANT PATHOLOGY. 3 cr.** A study of signs, symptoms, and syndromes as they relate to the causal agents and control of plant diseases. Prerequisites: Biology 120, 121; Microbiology 201; credit or registration in 402. (Same as Botany 401.) F, odd
- 404. PLANT PATHOLOGY LABORATORY. 1 cr.** A laboratory course to accompany 403. Three hours laboratory. Field trip fee required. Prerequisites: Credit or registration in 403; Microbiology 203. (Same as Botany 402.)
- 491. DIRECTED STUDY. 1-6 cr. Maximum, 6 cr.** Individualized work on special problems in: A. Soil Science; B. Plant Science; C. Animal Science; D. Agriculture Business; E. Equine Science; F. Agriculture Biometrics. Prerequisite: Approval of Department Head.

For Graduates Only

- 501. CURRENT TOPICS IN AGRICULTURE. 3 cr. Maximum, 12 cr.** Special topics in areas such as pesticide efficacy, environmental science, computerized farming, and tissue culturing of agricultural plants. A. Soil Science; B. Plant Science; C. Animal Science; D. Agriculture Business; E. Agricultural Mechanization; I. Biometrics. Prerequisite: Approval of Department Head. F

AGRONOMY (AGRO)

For Undergraduates and Graduates

- 404. SOIL AND WATER RESOURCES. 3 cr.** The nature, distribution, use, and conservation of important soil groups; the efficient use, control, and storage of water in humid and arid regions; water pollution and its control. Sum
- 405. SOIL FERTILITY AND CHEMICAL PROPERTIES. 3 cr.** The chemical and mineralogical properties of soils from the theoretical and technical viewpoints. Prerequisite: 201, Chemistry 101 or 107. (Formerly Chemical Properties of Soils.)
- 406. SOIL FERTILITY AND CHEMICAL PROPERTIES LABORATORY. 1 cr.** A laboratory course to accompany 405. Three hours laboratory. Prerequisite: Credit or registration in 405, 201, Chemistry 101 or 107. (Formerly Chemical Properties of Soils Laboratory.)
- 407. SOIL CLASSIFICATION. 3 cr.** The origin, profile development, composition, and classification of soils; the soils of Louisiana and their utilization.
- 408. SOIL CLASSIFICATION LABORATORY. 1 cr.** A laboratory course to accompany 407. Three hours laboratory. Prerequisite: Credit or registration in 407.

ALLIED HEALTH SCIENCES (AHSC)

For Undergraduates and Graduates

- 430. INTERDISCIPLINARY STUDIES. 1-3 cr.** Interdisciplinary education for allied health and related areas. Students will utilize a problem-based learning approach. Prerequisite: Permission of Instructor.

For Graduates Only

- 551. SEMINAR. 1-3 cr.** Related topics on clinical medicine and dentistry. Registration by approval of Director of the School of Allied Health Sciences. May be repeated for credit, but may not be applied to a degree program. Grading will be on a Credit (C), No Credit (NC) basis.

ANIMAL SCIENCE (ASCI)

For Undergraduates and Graduates

- 430. ARTIFICIAL INSEMINATION AND EMBRYO TRANSFER. 3 cr.** Development and use of artificial insemination and embryo transfer techniques in modern livestock breeding programs. Two hours lecture and two hours laboratory. Prerequisites: 101, 341, Chemistry 101, 102 or 107, 108, Mathematics 103 or 111.

GRADUATE COURSES 97**ANTHROPOLOGY
(ANTS or ANTG)****For Undergraduates and Graduates**

- 411. THE ARCHEOLOGY OF NORTH AMERICA. 3 cr.** The archeological background of North America from Mexico to the Arctic Circle; progressive states of development of prehistoric North American cultures. (Same as Geography 411.)
- 414. THE INDIANS OF NORTH AMERICA. 3 cr.** Survey of the distribution and principal regional lifeways of North American Indian groups prior to disruption, dispersal, and reservationizing. (Same as Geography 414.)
- 421. THE ARCHEOLOGY OF MEXICO. 3 cr.** An in-depth view of the development of pre-Hispanic Mexican and Meso-American cultures and civilizations from Paleo-Indian times to the Spanish Conquest; an overview of the major archeological sites pertinent to these cultures. (Same as Geography 421.)
- 422. ANTHROPOLOGY OF LATIN AMERICA. 3 cr.** Description of indigenous social organizations prior to conquest. Survey of community ethnographic studies of African, Amerind, Asiatic and European cultures in contemporary rural and urban Latin America. Prerequisite: Sociology 307 or Approval of Department Head. (Same as Sociology 422. Formerly Latin America: Peoples and Institutions.)
- 423. ARCHEOLOGICAL FIELD TECHNIQUES. 6 cr.** A field course introducing the basic techniques of archeological mapping, excavation, cataloging, specimen preparation and preservation. A study of soils, physical stratigraphy, synecology, and techniques of artifact laboratory analysis. May be repeated once for a maximum of 12 hours credit. (Same as Geography 423.)
- 430. BELIEF SYSTEMS. 3 cr.** The relationship between pre-literate belief systems and social structure; myths of creation, life cycle crisis, rites of passage, purity and pollution, witchcraft and supernatural illness. (Same as Sociology 430.)
- 435. ANTHROPOLOGY OF SEX ROLES. 3 cr.** An analysis of different values that define appropriate masculine and feminine behavior (sex roles) in a variety of cultures. Explores the impact of social institutions on teaching and enforcing sex roles in traditional and modern societies. (Same as Sociology 435.)

**ART
(ART)****For Undergraduates and Graduates**

- 401. ADVANCED CERAMICS. 3 cr. Maximum, 12 cr.** Origin and properties of ceramics raw materials and problems in glaze research. One hour lecture and five hours studio. Prerequisite: 203 or 204. Additional course fee \$50.
- 402. CREATING PAPER/CASTING AND MOLDING. 3 cr.** Study and processing of basic skills in creating paper from laminations to cast paper. One hour lecture, 5 hours laboratory per week.
- 403. ANALYTICAL PERSPECTIVE. 3 cr.** The use of principles of geometry in the development of spatial logic and imagery in one-point, two-point, and isometric perspective. Techniques in rendering support procedures in architecture, illustration, and industrial and environmental design. For art majors and non-art majors. Six hours studio.
- 404. ADVANCED DRAWING. 3 cr. Maximum, 12 cr.** Advanced drawing. Primarily life drawing in a variety of media. Six hours studio. Prerequisite: 104. Additional course fee \$50.
- 405. ADVANCED GRAPHIC DESIGN. 3 cr. Maximum, 12 cr.** Design problems to develop professional studio skills and practices in graphic design. Develop methods of problem solving with specific production limitations. Methods of presentation. One hour lecture and five hours studio. Prerequisite: 206.
- 406. COMPUTER ART. 3 cr.** Decision making with the graphic computer, creation to production. Computer-aided visual design including image origination as well as input, output, selection, editing, alteration, and manipulation. Prerequisites: 101, 103; Computer Science 163 and 167, or Approval of Department Head. Six hours studio.
- 407. RAKU CERAMICS. 3 cr.** Lecture and demonstrations on use of Raku ceramics, including kiln construction and firing. One hour lecture and five hours studio. Additional course fee \$50.

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- 408. ART APPLICATIONS IN TEACHING. 3 cr.** Mixed media; drawing multi-image processes, enlargement techniques, and three-dimensional poster material are utilized in visual aid techniques.
- 409. TECHNIQUES IN THE FINE ARTS. 3 cr.** A study, analysis, and participation in the productions of various media in the fine arts such as drawing, painting, printing, and sculpture. For non-art majors. Additional course fee \$50.
- 411. ART EDUCATION FOR THE ELEMENTARY SCHOOL. 3 cr.** This course is designed to present art education students with concepts, methods, and experiences used in creating art activities with children at the elementary level. Additional course fee \$50.
- 412. ART EDUCATION. 3 cr.** Lecture/discussion/experience course designed to present art education students with theories, strategies, and experiences in designing and teaching art activities. Additional course fee \$50.
- 418. INCLUSIVE ART INSTRUCTION. 3 cr.** Objectives, methods, and materials used in teaching gifted, talented, and other diverse learners. For juniors, seniors, and graduates only.
- 425. RENAISSANCE. 3 cr.** The visual arts in Italy from the early Renaissance through Mannerism. Prerequisite: 201, 202.
- 426. NINETEENTH CENTURY. 3 cr.** Nineteenth Century European and American Rococo through Post-Impressionism periods. Prerequisites: 201, 202, or Approval of the Department Head.
- 429. CONTEMPORARY. 3 cr.** Twentieth century European and American Art. A study of the major achievements in painting, sculpture, and architecture since 1900. Prerequisite: 201, 202.
- 431. WATERCOLOR. 3 cr.** Painting in watercolor. Prerequisites: 101, 103, or Approval of Department Head.
- 440. METALCRAFT AND JEWELRYMAKING. 3 cr.** The designing and fabrication of jewelry and small metal products. One hour lecture and five hours studio. Prerequisite: 102 or Approval of Department Head.
- 441. SPECIAL PROBLEMS. 3 cr. per area.** Any area may be repeated. A maximum of 12 hours allowed toward the degree. A. Graphic Design; B. Ceramics; C. Painting; D. Photography; E. Drawing; F. Printing; G. Sculpture. Additional course fee \$50.
- 443. SEMINAR IN ART HISTORY. 3 cr. Maximum, 12 cr.** The study of various eras and developments in world art. A. Expressionism. B. Baroque. C. Far Eastern. D. Theory. Prerequisites: 201, 202, or Approval of Department Head.
- 451. ADVANCED PRINTMAKING. 3 cr. Maximum, 12 cr.** Research problems in printmaking; choice of media. One hour lecture and five hours studio. Additional course fee \$50.
- 455. ADVANCED PHOTOGRAPHY. 3 cr. Maximum, 12 cr.** Individual instruction in planning and executing a personal response to the visual elements and creative composition. One hour lecture and five hours studio. Prerequisite: 246.
- 461. ART THEORY/PORTFOLIO. 1-2 cr.** Individual directed study on specific problems related to art theory or studio. May be repeated for a maximum of 2 semester hours. For art majors and non-art majors.
- 471. ADVANCED PAINTING. 3 cr. Maximum, 12 cr.** Independent problems in choice of media; emphasis upon personal solutions. One hour lecture and five hours studio. Prerequisites: 271 or 272.
- 481. ADVANCED SCULPTURE. 3 cr. Maximum, 12 cr.** Advanced problems in sculptural processes and techniques. Emphasis upon individual creative expression. One hour lecture and five hours studio. Prerequisite: 381. Additional course fee \$50.
- 495. RESEARCH PROBLEMS. 3 cr. Maximum, 12 cr.** Individual and group study with Approval of Department Head. Research, discussion, and criticism. Additional course fee \$50.

For Graduates Only

- 501. PAINTING. 3 cr. Maximum, 12 cr.** Individual instructions in developing student capabilities as a creative artist.
- 511. ART EDUCATION SEMINAR. 3 cr.** A critical study of current literature in contemporary art education. An investigation of materials, methods organization and administration of art programs in level of interest.
- 512. PROCESSES IN ART EDUCATION. 3 cr.** Developments in content, materials, and trends in teaching art in the elementary and secondary schools.
- 521. ART THEORY. 3 cr. Maximum, 6 cr.** Research and criticism of art works.
- 531. CERAMICS. 3 cr. Maximum, 12 cr.** Personal research in the techniques and processes of the ceramics artist.
- 546. SELECTED PHOTOGRAPHY. 3 cr. Maximum, 12 cr.** Problems assigned as independent research in black and white or color photography. Prerequisite: Approval of the Department Head.

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- 551. PRINTMAKING. 3 cr. Maximum, 12 cr.** Exploration and research in the print media.
- 571. DRAWING STUDIO. 3 cr. Maximum, 6 cr.** Exploration and research of drawings as personal and creative expression.
- 581. SCULPTURE. 3 cr. Maximum, 12 cr.** Independent research and exploration of sculptural processes and techniques as a means of individual creative expression.
- 591. DIRECTED STUDIES. 3 cr. Maximum, 12 cr.** Investigative study and selected problems for advanced graduate students.

**ATMOSPHERIC SCIENCES
(ATMS)****For Undergraduates and Graduates**

- 450. ATMOSPHERIC POLLUTION. 3 cr.** A study of elements, effects and meteorology of air pollution including the "Greenhouse" effect, acid rain, and ozone depletion problems. Air pollution modeling and prediction is also covered. Prerequisites: Completion of freshman mathematics requirements and Chemistry 107.
- 460-461. METEOROLOGY FOR TEACHERS. 3 cr. each.** A introduction to meteorology designed for elementary and secondary school science teachers. The courses are a blend of lecture, demonstrations, and hands-on work and are designed to be taken in sequence. The courses cannot be used to satisfy degree requirements in Atmospheric Science. Prerequisite: MATH 110 or 111. ATMS 460 is a prerequisite for ATMS 461.

**AVIATION
(AVIA)****For Undergraduates and Graduates**

- 403. AEROSPACE EDUCATION. 3 cr.** A course designed to provide teachers, counselors, and administrators with a basic understanding of the scientific and technological fundamentals involved in flight. Utilizing the airplane as the tool of classroom instruction, the earth, physical and biological sciences are taught as they relate to the aerospace age. The material covered will encompass the equivalence of a Federal Aviation Administration private pilot written examination.
- 404. ADVANCED AEROSPACE EDUCATION. 3 cr.** A course designed to provide teachers, counselors, and administrators with an advanced technological orientation, as well as a solid foundation in the aerospace career fields. This course includes an advanced academic program in the classroom and an optional flight training program through solo flight.
- 451. ADVANCED AEROSPACE SEMINAR. 1-3 cr.** Individual and limited group problems in aerospace development, history, organizational relationships and management. Designed primarily for individual and small group studies, and for extended field trips to significant aerospace centers of research, development, and operations. Prerequisite: Approval of Department Head.

**BIOLOGY
(BIOL)****For Undergraduates and Graduates**

- 403. PROBLEMS. 1-6 cr. Maximum, 6 cr.** Selected problems in A. Anatomy/Physiology; B. Bacteriology/Virology; C. Botany; D. Ecology; E. Animal Science/Genetics; F. Animal and Plant Taxonomy; I. Agrostology. Prerequisite: Approval of Department Head.
- 404. ECOLOGICAL METHODS. 3 cr.** Contemporary methods employed in plant and animal ecology. Prerequisites: 303, 304.
- 405. EVOLUTIONARY POPULATION GENETICS. 3 cr.** A study of genetic variation in populations and its role in the evolutionary process. Prerequisite: 305.
- 408. CELLULAR PHYSIOLOGY. 3 cr.** Physical and chemical aspects of the living organism including an introduction to molecular biology with emphasis on the cell. Prerequisites: 220; CHEM 303, 304, 305, 306; credit or registration in 409.

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- 409. CELLULAR PHYSIOLOGY LABORATORY. 1 cr.** A laboratory course to accompany 408. Three hours laboratory. Prerequisite: Credit or registration in 408.
- 412. PLANT PHYSIOLOGY. 4 cr.** An introduction to the chemical and physical processes occurring in plants. Three hours lecture and three hours laboratory. Prerequisites: 204; Chemistry 108, 110; Math 116. (Formerly Botany 409)
- 414. ANIMAL PHYSIOLOGY. 4 cr.** An introduction to the processes by which animals function in their environment. Three hours lecture and three hours laboratory. Prerequisites: 208; Math 116. (Formerly Zoology 412)
- 416. PHYSIOLOGY OF REPRODUCTION. 3 cr.** Study of the physiological and environmental processes involved in mammalian reproduction. Sp. odd (Formerly Zoology 429)
- 417. DEVELOPMENTAL BIOLOGY. 3 cr.** An introduction to the mechanisms and evolution of developmental processes of plants and animals. Topics include pattern formation, cell differentiation, and organogenesis. An emphasis is placed on experimental aspects of developmental biology. Prerequisite: BIOL 305.
- 418. DEVELOPMENTAL BIOLOGY LABORATORY. 1 cr.** A laboratory course to accompany BIOL 417. Lab topics include experimental investigations of fertilization, embryogenesis, gene expression, and patterns of vertebrate organogenesis. Prerequisite: Credit or registration in BIOL 417
- 419. ADVANCED CONCEPTS IN GENETICS AND MOLECULAR BIOLOGY. 3 cr.** An advanced level course in genetics with a focus on DNA structure and function, gene expression, protein function, human genetics, and biotechnology. An emphasis is placed on current topics and emerging biomedical technologies. Prerequisite: BIOL 305
- 422. HISTOLOGY. 4 cr.** Microscopic structure of the cell; cellular organizations; tissues; the relationship of structure to function. Three hours lecture and three hours laboratory. Prerequisite: 208. (Formerly Zoology 415, 417)
- 424. EMBRYOLOGY. 4 cr.** The structure and maturation of germ cells, the fertilization and early development of vertebrates. Three hours lecture and three hours laboratory. Prerequisite: 208. (Formerly Zoology 419, 420)
- 425. NEUROLOGY. 3 cr.** Study of the anatomy, physiology and pathology of the human nervous system. (Formerly Zoology 425)
- 426. NEUROLOGY LABORATORY. 1 cr.** A laboratory course to accompany 425. Three hours laboratory. Prerequisite: Credit or registration in 425. (Formerly Zoology 426)
- 432. AQUATIC PLANTS. 4 cr.** A study of the plants that grow in aquatic and wetland sites. Emphasis placed on identification, distribution, and field characteristics. Two hours lecture and four hours laboratory including frequent field trips. Prerequisite: 204. (Formerly Botany 403, 402)
- 434. FIELD BOTANY. 4 cr.** Field characteristics and sight identification of the regional flora is emphasized. Two hours lecture and four hours laboratory including frequent field trips. Prerequisite: 204. (Formerly Botany 411, 412)
- 436. DENDROLOGY. 4 cr.** Classification, identification, and characteristics of important forest trees of the United States, stressing native species common to Louisiana. Two hours lecture and four hours laboratory including frequent field trips. Prerequisite: 204. (Formerly Botany 413, 414)
- 438. BIOLOGY OF NONSEED PLANTS. 4 cr.** The characteristics, classification, phylogeny, and life cycles of fungi, algae, mosses, hornworts, liverworts, and ferns are emphasized. Two hours lecture and four hours laboratory including frequent field trips. Prerequisite: 204. (Formerly Botany 415, 416)
- 440. TAXONOMY OF VASCULAR PLANTS. 4 cr.** Characteristics of plant families are emphasized. This includes classification systems and emphasis on primitive and advanced characteristics. Most of the lab is devoted to identification of plants by using keys from plant identification manuals. Two hours lecture and four hours laboratory. Prerequisite: 204. (Formerly Botany 417, 418)
- 442. AGROSTOLOGY. 4 cr.** The identification, classification and ecology of grass and grass-like plants. Three hours lecture and three hours laboratory with scheduled field trips. Prerequisite: 204. (Formerly Botany 419, 420)
- 444. PLANT ECOLOGY. 4 cr.** The study of plant populations and communities and their habitat with emphasis on the communities of the south central United States. Three hours lecture and three hours laboratory. Prerequisite: 303, 304. (Formerly Botany 426, 427)
- 446. ECONOMIC BOTANY. 3 cr.** The study of applied uses of plants as food, fibers, lumber, drugs, and related commodities. Prerequisite: 204. (Formerly Botany 481)

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- 447. ECONOMIC BOTANY LABORATORY. 1 cr.** A laboratory course to accompany 446. Two hours laboratory. Prerequisite: Credit or registration in 446. (Formerly Botany 482)
- 451. FIELD BIOLOGY. 6 cr.** Field studies of the flora and fauna native to selected habitats. Field trip fee required. Prerequisites: Approval of Department Head. Sum.
- 456. INTRODUCTION TO ENTOMOLOGY. 4 cr.** The anatomy, physiology, and classification of insects. Three hours lecture and three hours laboratory. Prerequisite: 208. (Formerly Zoology 450, 451)
- 460. PATHOGENIC BACTERIOLOGY. 4 cr.** The morphology, physiology, and immunogenicity of disease-causing bacteria; methods of isolation, identification and control of pathogenic bacteria and diseases. Three hours lecture and three hours laboratory. Prerequisites: 214, 215. (Formerly Micro 417, 418)
- 462. FOOD AND DAIRY MICROBIOLOGY. 3 cr.** The role of microorganisms in the preservation, spoilage and poisoning in food and dairy products. Also, their role in the manufacture of products of agricultural origin. Prerequisite: 214; credit or registration in 463. (Formerly Micro 423)
- 463. FOOD AND DAIRY MICRO LABORATORY. 1 cr.** A laboratory course to accompany 462. Three hours laboratory. Prerequisite: Credit or registration in 462. (Formerly Micro 424)
- 464. WATER MANAGEMENT. 3 cr.** A survey of water distribution and uses, including water purification and sewage treatment, industrial and agricultural; irrigation scheduling. (Formerly Micro 421)
- 466. ADVANCED MICROBIOLOGY. 3 cr.** Advanced microbiological techniques; a study of the morphological, physiological, and genetic characteristics of important groups of microorganisms; introduction to biotechnology. Two hours lecture and two hours laboratory. Prerequisites: 214, 215 and 8 semester hours of chemistry. (Formerly Micro 415, 416)
- 468. GENERAL VIROLOGY. 3 cr.** A study of representative bacterial, animal and plant viruses. Prerequisites: 214; credit or registration in 469. (Formerly Micro 425)
- 469. GENERAL VIROLOGY LABORATORY. 1 cr.** A laboratory to accompany 468. Three hours laboratory. Prerequisite: Credit or registration in 468. (Formerly Micro 426)
- 470. IMMUNOLOGY - CONCEPTS AND PRINCIPLES. 3 cr.** Detailed discussion of the cellular and humoral components of the immune system and their interrelationships in the production and control, at both the genetic and cellular levels, of immune responses. Prerequisites: 214; 115 or 312 or consent of instructor. (Formerly Micro 430)
- 472. INTRODUCTORY PARASITOLOGY. 3 cr.** The taxonomy, life history, and economic importance of protozoa, helminths, and arthropods which are parasites of man. Prerequisites: 208; credit or registration in 473. (Formerly Zoology 401)
- 473. INTRODUCTORY PARASITOLOGY LABORATORY. 1 cr.** A laboratory course to accompany 472 three hours laboratory. Prerequisite: Credit or registration in 472. (Formerly Zoology 402)
- 476. FRESHWATER ECOLOGY. 4 cr.** The biological, chemical, and physical characteristics of freshwater habitats. Three hours lecture and three hours laboratory. Field trip fee required. Prerequisites: 204; 208. (Formerly 406, 407)
- 478. ICHTHYOLOGY. 4 cr.** Evolution, systematics and ecology of fishes with an emphasis on North American freshwater fishes. Two hours lecture and six hours laboratory with field trips. Prerequisites: 122, 123. F odd. (Formerly Zoology 405,406)
- 480. HERPETOLOGY. 4 cr.** Morphology, taxonomy, and life history of amphibians and reptiles with emphasis on the taxonomy of the amphibians and reptiles of Louisiana. Three hours lecture and three hours laboratory with field trips required. Prerequisite: 208. (Formerly Zoology 427, 428)
- 482. MAMMALOGY. 4 cr.** The morphology, taxonomy, and life history of mammals. Three hours lecture and three hours laboratory with field trips. Prerequisite: 208. F. odd (Formerly Zoology 423, 424)
- 484. ORNITHOLOGY. 3 cr.** Morphology, taxonomy, behavior, and natural history of birds. Two hours lecture and three hours laboratory with field trips required. Prerequisite: 208. Sp. even (Formerly Zoology 431, 432)
- 486. GAME BIRDS. 4 cr.** Recognition, life histories, predators, economics and management practices of North American game birds. Three hours lecture and three hours laboratory with field trips. Prerequisite: 208. Sp. odd (Formerly Zoology 433, 434)
- 488. GAME MAMMALS AND FUR BEARERS. 4 cr.** Recognition, life histories, predators, economics and management practices of game mammals and fur bearers with special emphasis on regional fauna. Three hours lecture and three hours laboratory with field trips. Prerequisite: 208. F. even (Formerly Zoology 473, 474)
- 490. ESTUARINE ZOOLOGY. 4 cr.** An introduction to basic estuarine ecology with a focus on the ecology and systematics of major aquatic invertebrates and fishes native to estuaries of the

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northern Gulf of Mexico. Three hours lecture and three hours laboratory. Field trip fee required. Prerequisite: 208. Sp. odd (Formerly Zoology 435)

- 492. ANIMAL ECOLOGY. 3 cr.** A study of animal populations, communities and their interactions. Two hours lecture and two hours laboratory. Prerequisites: 303, 304 or equivalent. F even. (Formerly Zoology 440)
- 496. COOPERATIVE INTERNSHIPS. 1-3 cr.** Closely supervised practical experience working in agencies/businesses that employ biologists. Only junior and senior majors and graduate students are eligible. Students will receive grades or CR (credit) or NC (no credit). Students may repeat this course for a total of 3 credits; not to exceed 6 credits total in combination with 403. The course may not be used by graduate students to fulfill major requirements. (Formerly 410)
- 499. SENIOR SEMINAR. 1 cr.** A seminar course to acquaint students with recent primary literature in Biology. Class format will include discussions and written papers. Prerequisite: 40 hours of credit. (Formerly 420)

For Graduates Only

- 503. ORGANIC EVOLUTION. 3 cr.** The history, theories, and mechanisms of evolution.
- 505. RESEARCH METHODS. 2 cr.** Principles underlying biological research. Emphasis on the scientific method and its application in biological investigation. Prerequisite: Credit or registration in 506.
- 506. RESEARCH METHODS LABORATORY. 1 cr.** A laboratory course to accompany 505. Two hours laboratory. Prerequisite: Credit or registration in 505.
- 507. SEMINAR. 1 cr. Maximum, 2 cr.**
- 510. BIOLOGY OF AGING. 3 cr.** A review of the fundamental aspects of biological aging; age-related anatomical and physiological changes displayed by humans and other mammals at the molecular, cellular, and organismic levels. (Same as GERO 510) Sp
- 511. SOLID WASTE MANAGEMENT. 3 cr.** A survey of currently-used techniques of disposal of solid wastes from municipal, industrial, and agricultural sources; recycling techniques; hazardous waste disposal. Prerequisite: BIOL 214 or equivalent. F, even
- 512. BEHAVIORAL ECOLOGY. 3 cr.** The study of the interactions between animal ecology and behavior. Topics to be covered include social behavior, competition, cooperation, sexual selection and parental care.
- 513. PHYSIOLOGICAL ECOLOGY. 3 CR.** The physiological mechanisms plants and animals use to respond to their environment, including regulation, behavior, acclimation, plasticity, and adaptation. Prerequisite: Biology 120, 122 or equivalent.
- 514. EPIDEMIOLOGY. 3 cr.** A study of human and animal disease with consideration of host resistance, parasitic adaptation and dissemination, and the problems of interference, carriers, reservoirs, and control. Prerequisite: 214 or equivalent. (Formerly Microbiology 512)
- 515. BIOLOGY FOR TEACHERS. 3 cr. Maximum, 12 cr.** Analysis and application of principles of selected biological topics. Cannot be used to satisfy degree requirements for biology majors.
- 518. POPULATION BIOLOGY OF FISHES. 4 cr.** General principles of fish population dynamics with emphasis on freshwater systems. Topics include mortality, recruitment and yield, age and growth, and population ecology. Three hours lecture and three hours laboratory. (Formerly Zoology 514, 515)
- 524. BIOGEOGRAPHY. 3 cr.** A study of the dynamics of biological patterns and processes over broad geographic and time scales. Prerequisites: 303, 304 or Approval of Instructor. F, even
- 526. ADVANCED HERPETOLOGY. 3 cr.** Detailed internal and external morphology and taxonomy of the amphibians and reptiles of North America. Field and museum techniques in collecting and preparing specimens and records. Two hours lecture and 3 hours laboratory. Prerequisite 480. (Formerly Zoology 505)
- 528. FISH DIVERSITY. 4 cr.** Evolution, systematics, and zoogeography of marine and freshwater fishes of the world. Field and museum techniques in specimen collection and preservation and an introduction to morphological, cytogenetic, and molecular analyses. Three hours seminar and three hours laboratory. Prerequisite: 478. (Formerly Zoology 503)
- 530. STREAM ECOLOGY. 4 cr.** Animal adaptations to life in rivers, bayous, and creeks. Stream community structure as understood through ecological theories. Combination lecture, laboratory, and field work. Two hours lecture and four hours laboratory. Field trip fee required. Prerequisites: 476. (Formerly 520, Lotic Ecology)
- 532. FRESHWATER INVERTEBRATES. 4 cr.** An in-depth study of the classification and ecology of invertebrate taxa found in freshwater habitats, with special emphasis on freshwater taxa of the

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southeastern United States. Three hours lecture and three hours laboratory. Prerequisites: 303, 304, 476. (Formerly 521, 522)

- 534. PLANT SYSTEMATICS AND PHYLOGENY. 3 cr.** Theory and practice of identifying, naming, classifying, and understanding relationships between vascular plants with emphasis on families and their phylogeny. Two hours of lecture and two hours of laboratory. Prerequisites: A 400-level plant taxonomy course. (Formerly Botany 510)
- 536. SYSTEMATIC BIOLOGY. 3 cr.** Major theses include speciation, species, concepts, character analysis, phylogeny reconstruction, and historical biogeography. Theoretical aspects of these topics and their relationship to taxon recognition, description, and classification will be emphasized. Prerequisite: 405 or approval of Department Head. (Formerly Zoology 510)
- 540. COMPARATIVE PHYSIOLOGY. 3 cr.** Physiological processes in a wide range of invertebrates as well as vertebrate animals; different adaptations by which diverse organisms perform basic life functions; comparisons designed to demonstrate physiological homologies and analogies. (Formerly Zoology 511)
- 542. ENDOCRINOLOGY. 3 cr.** The study of endocrine glands and their hormones. Consideration of the role of hormones in growth, development, metabolism, homeostasis, and reproduction. Prerequisite: One semester of physiology. (Formerly Zoology 501)
- 591. DIRECTED STUDY. 1-6 cr. Maximum, 6 cr.** Directed study in selected areas of Biology. Prerequisite: Approval of the Department Head.
- 593. SPECIAL TOPICS IN BIOLOGY. 3-4 cr.** Advanced study of topics not covered in regular courses. Topic areas: A. Zoology; B. Botany; C. Cell and Molecular Biology; D. Physiology. All sections with three hours lecture; some sections may include additional laboratory time. Prerequisite: Approval of instructor.
- 599. THESIS. 1-6 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.

**BUSINESS
(BUSN)****For Undergraduates and Graduates**

- 412. MANAGERIAL COMMUNICATION. 3 cr.** Theory, concepts, and process of oral and written managerial communication; organization, analysis and presentation of information in memos and business reports (written and oral); effects of language and media on individual and organizational behavior; role and use of information technology. Prerequisite: 305 or approval of department head. (Formerly Office Information Systems 412.)
- 481. CONTINUING STUDIES IN BUSINESS. 1-3 cr.** Various topics in applied business for students not pursuing a degree. May be repeated. Credit may not be applied toward a degree. Grades of CR (Credit) or NC (No Credit) will be awarded.

For Graduates Only

- 501. BUSINESS AND ITS ENVIRONMENT. 3 cr.** The philosophy and role of business and managers in their social, governmental, and economic environments. Consideration is given to social and ethical responsibilities to employees, customers, the general public, and others; relations between business and government; public regulation and social control of business; and relations between business and labor.
- 591. DIRECTED STUDY. 3 cr.** Individual study of advanced business topics, under the direction of a senior faculty member. Prerequisites: Twelve semester hours of BMBA courses and a minimum graduate GPA of 3.5.

**BUSINESS ADMINISTRATION
(BMBA)****For Graduates Only**

- 509. MANAGEMENT INFORMATION SYSTEMS. 3 cr.** Concepts and practices of MIS, Systems development, Data communications, Selection and utilization of computer systems to implement a management information system. Prerequisites: CINS 205 or equivalent, QMDS 210; and the permission of the graduate coordinator.
- 511. ECONOMIC ENVIRONMENT. 3 cr.** Determination of market prices, interest rates, national output, exchange rates, and balance of payments. Demand estimation and cost analysis. The effects of government interventions such as price controls, fiscal and monetary policies, tariffs,

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- and quotas. Prerequisites: Quantitative Methods 210, Economics 201 and 202, or 502; and the permission of the graduate coordinator.
- 512. ACCOUNTING ANALYSIS FOR DECISION MAKING. 3 cr.** Use of accounting information systems for profit planning, cost control, and capital budgeting. Study of cost terminology and behavior with emphasis on relevant costs for decision making. Management use and analysis of financial statements. Prerequisites: Accounting 212 and 213, or 502; and the permission of the graduate coordinator.
- 520. FINANCIAL ANALYSIS. 3 cr.** Examination of the key aspects of investment and financial decision-making including capital budgeting, financial statement analysis, financial planning, risk management, international financial markets, and the selection of financial instruments and policies. Prerequisites: Accounting 212 and 213, or 502; Economics 201 and 202, or 502; Finance 315; and the permission of the graduate coordinator.
- 521. MARKETING STRATEGY. 3 cr.** Planning, implementing, and evaluating marketing strategies within the context of a dynamic and global environment. Identifying, understanding, and selecting target markets and developing appropriate marketing programs to satisfy chosen segments. Prerequisites: Marketing 301; and the permission of the graduate coordinator.
- 522. ORGANIZATIONAL THEORY AND BEHAVIOR. 3 cr.** The study of the development and structure of organizations with emphasis given to behavior within organizations. Consideration is devoted to the environment in which the organization exists and the climate within the organization. In-depth attention to topics such as global issues, workforce diversity, group dynamics, and management roles and responsibilities. Prerequisites: Management 301; and the permission of the graduate coordinator.
- 530. INTERNATIONAL BUSINESS. 3 cr.** Examination of the global scope of today's competitive environment to include cultural, economic, social, political, legal and financial ramifications. Topics include: strategic planning, production and distribution logistics, technology, transfer pricing, and risk analysis. Traditional business functional areas such as finance, marketing, information systems and human resources will be examined from a global perspective. Prerequisites: Economics 201 and 202, or 502; Management 301; Marketing 301; and the permission of the graduate coordinator.
- 539. STRATEGIC MANAGEMENT. 3 cr.** Comprehensive analysis, integration of business core, and decision making at top management level relative to organizational goal-setting; strategy formulation and implementation; resource accumulation and allocation; and development of appropriate organization structures, information systems, and motivating and control systems. Prerequisites: Credit for at least four of the following six courses: Business Administration 509, 511, 512, 520, 521, and 522 and official admission to the MBA program. Course should be taken in the final semester of coursework.

CHEMISTRY (CHEM)

For Undergraduates and Graduates

- 420. ADVANCED PHYSICAL CHEMISTRY. 3 cr.** An introduction to group theory including molecular symmetry, molecular orbital theory, electronic spectroscopy, and vibrational spectroscopy. Three hours of lecture per week. Prerequisite: C or better in 322. F, even years
- 422. DIRECTED STUDY. 1-6 cr. Maximum, 6 cr.** A directed study for undergraduates and graduates. May include laboratory and/or library work in the areas of A. Analytical; B. Biochemistry; C. Inorganic; D. Organic; E. Physical. Four to six hours per week for each credit hour earned. Prerequisite: Approval of Department Head. F, Sp, Sum I and II
- 430. ADVANCED ORGANIC CHEMISTRY. 3 cr.** A mechanistic study of prevailing organic reactions via structural and electronic effects. Three hours of lecture per week. Prerequisite: C or better in 232 and 322. Sp, odd years

For Graduates Only

- 511-512. INORGANIC CHEMISTRY. 3 cr. each.** The theoretical foundations of modern inorganic chemistry. Topics will vary to reflect trends in inorganic chemistry and needs of the students. Recently, 511 has dealt with group theory; 512 with chemical kinetics. Three hours of lecture per week. Prerequisite: 413 or equivalent. F, even years; Sp, odd years
- 521-522. PHYSICAL CHEMISTRY. 3 cr. each.** A review of selected topics in physical chemistry. Topics will vary to reflect trends in physical chemistry and needs of the students. Recently, these courses have dealt with quantum chemistry, atomic and molecular structure, and spectroscopy. Three hours of lecture per week. Prerequisite: 322 or equivalent. F, odd years; Sp, even years

GRADUATE COURSES 105

- 531. ORGANIC SYNTHESSES. 3 cr.** In depth discussion of organic synthesis including carbon-carbon bond formation and functional group transformations. Prerequisites: A C or better in 232 or equivalent. Fall, odd years.
- 532. ORGANIC SPECTROSCOPY. 3 cr.** Advanced presentations of identification techniques for organic compounds. Analytical procedures include infrared spectroscopy, nuclear magnetic resonance, mass spectrometry, and ultraviolet-visible spectroscopy. Prerequisites: A C or better in 232 or equivalent. Spring, even years
- 541-542. ANALYTICAL CHEMISTRY. 3 cr. each.** Theory and practice of analytical chemistry. Topics will vary to reflect trends in analytical chemistry and needs of the students. Recently, these courses have dealt with spectrochemical analysis and with chromatographic methods. Three hours of lecture per week. Prerequisite: 407 or equivalent. F, even years; Sp, odd years
- 551. INTERMEDIARY METABOLISM. 3 cr.** A study of metabolism of carbohydrates, proteins, nucleic acids, and lipids. Three hours of lecture per week. Prerequisite: C or better in 350. F, odd years
- 552. PHYSICAL BIOCHEMISTRY. 3 cr.** Advanced study of the physical techniques, structure, function, conformation and behavior of biological macromolecules. Three hours of lecture per week. Prerequisite: C or better in 350. (Formerly Intermediary Metabolism.) Sp, even years

**CLASSICS
(CLAS)****For Graduates Only**

- 501. SEMINAR IN CLASSICAL STUDIES. 3 cr. Maximum, 6 cr.** Topics in Greek and Roman civilization, culture, etymology, language, literature, and religion.

**COMMUNICATION
(COMM)****For Graduates Only**

- 500. PROSEMINAR IN COMMUNICATION STUDIES. 0 cr.** Orientation to the graduate program process, practices, events, and academic requirements. Required during first semester of enrollment. Grade of CR (Credit) or NC (No Credit). A student must earn credit in this course prior to taking the comprehensive examination. Enrollment is restricted to graduate students in the Department of Communication.
- 501. QUALITATIVE RESEARCH METHODS. 3 cr.** The study of qualitative research methods used to conduct systematic inquiry about communication topics. Textual analysis, ethnography, phenomenology, and language studies are among the methods investigated. (Formerly Speech 505.) Sp
- 502. QUANTITATIVE RESEARCH METHODS. 3 cr.** A study of techniques and strategies used in conducting empirical studies of communication. Analysis of types of problems, concepts, variables, definitions, research designs, measurement techniques, and interpretation of data prevalent in communication research. Involves elementary statistics and development of research proposals and designs. (Formerly Journalism 505.) F
- 593. PROFESSIONAL COMMUNICATION EXIT PROJECT. 3 cr.** A major creative, research, and/or service-based piece of work. Flexible format that can combine written work with performance and audio/videotape development and/or documentation.

**COMMUNICATION STUDIES
(CMST)****For Undergraduates and Graduates**

- 405. ADVANCED PUBLIC COMMUNICATION. 3 cr.** Preparation and delivery of the principal types of speeches, with some attention to the miscellaneous types of speeches; rhetorical criticism. An effort is made to arrange outside speaking engagements for members of the class.
- 420. PERFORMANCE STUDIES. 3 cr.** Theory and practice in the art of group oral presentation of literature; selection, analysis, and arrangement of materials for oral interpretation; program planning for public presentation; emphasis on Reader's Theatre. Prerequisite: 305 or consent of instructor.

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- 426. HEALTH COMMUNICATION. 3 cr.** The study of effective communication perspectives and skills helpful in providing integrated, coordinated services between various allied health professions. Prerequisite: permission of instructor.
- 451. AMERICAN PUBLIC ADDRESS. 3 cr.** This course will involve the study of American public address from colonial times to the present. Speeches of outstanding American statesmen, lawyers, and clergymen will be examined. Prerequisites: 101 or 201 or permission of instructor.
- 452. CRITICISM OF CONTEMPORARY COMMUNICATION. 3 cr.** This course examines various aspects of contemporary communication. Prerequisite: 101, 201, or approval of instructor.
- 453. RHETORIC OF SOCIAL MOVEMENTS. 3 cr.** This course will involve a close examination of social movements and the communication practices giving rise to and maintaining these movements. Special attention will be given to American social movements. Prerequisites: 101, 201, or permission of instructor.
- 462. ADVANCED SMALL GROUP COMMUNICATION. 3 cr.** Studies of group action, interaction, and leadership designed to apply small group theory. Emphasis on the nature of group communication as exemplified in the discussion/conference model. Prerequisite: 101 or 260 or consent of instructor.

For Graduates Only

- 501. RHETORICAL THEORY. 3 cr.** Analysis of significant developments in rhetorical theory from classical to modern times.
- 502. NONVERBAL COMMUNICATION. 3 cr.** An examination of central principles of nonverbal communication, a theoretical application of how these principles can be used, and a description of how knowledge of nonverbal cues can increase communication effectiveness. Prerequisite: 101, 118, or 260 or consent of instructor.
- 503. RHETORICAL CRITICISM. 3 cr.** Analysis of significant developments in methodologies for performing rhetorical criticism.
- 504. INTERCULTURAL COMMUNICATION. 3 cr.** The study of recent research and theory of intercultural communication examining cross-cultural perspectives on such research issues as language, training, intercultural communication competence, and related issues. Prerequisite: 101 or 118 or consent of instructor.
- 510. COMMUNICATION THEORY. 3 cr.** Review, analysis, and evaluation of major theories of human communication. Emphasis on heuristic factors that may guide future communicative efforts in human relations.
- 518. GENERAL SEMANTICS. 3 cr.** A study of the relationship between language, thought, and behavior. Formulations from the works of Alfred Korzybski and neo-Korzybskian interpreters are presented. General semantics is discussed as an interdisciplinary approach to knowledge. Relationships are made to contemporary problems in human affairs.
- 520. POLITICAL COMMUNICATION. 3 cr.** A critical review and analysis of contemporary theoretical approaches related to means of political persuasion, contexts, and research methodology. Prerequisite: 201 or 330 or consent of instructor.
- 525. SPECIAL TOPICS. 3 cr. Maximum, 3 topics, 3 cr. each.** A. Rhetoric and Public Address; B. Forensics; C. Interpersonal Communication; D. Organizational Communication; E. Communication Theory; F. Selected Topics in Speech Communication.
- 526. COMMUNICATION IN GERONTOLOGY. 3 cr.** The study of communication processes among gerontological professionals, staff, patients, healthcare providers, and administrators. Emphasis on research strategies and practical learning experiences as tools for facilitating interaction. (Same as Gerontology 526.)
- 530. ADVANCED STUDIES IN PERSUASION. 3 cr.** A review of the history of persuasion research. Theories and methods of studying persuasion are synthesized and related to contemporary problems of social influence. Prerequisite: 201 or 330 or consent of instructor.
- 541. COMMUNICATION AND GENDER. 3 cr.** This course is an advanced study exploring how our gendered lives influence relationships. Special attention will be given to theory and research of, and on, the ways gender and communication interact. Prerequisite: permission of instructor.
- 544. ADVANCED STUDIES IN ORGANIZATIONAL COMMUNICATION. 3 cr.** Advanced studies in organizational life emphasizing research and theory. Students will study current research in the field and conduct research in an organization. Students will be encouraged to extend and develop theory. Prerequisite: permission of instructor.
- 550. ADVANCED STUDIES IN INTERPERSONAL COMMUNICATION. 3 cr.** Analyses of relational development, maintenance, and change in the contexts of working relations, friendships, and families. Prerequisites: 101, 118, or permission of instructor.
- 591. DIRECTED STUDY. 1-6 cr.** Individual study in A. Rhetoric and Public Address; B. Forensics; C. Interpersonal Communication; D. Organizational Communication; E. Communication Theory; F. Instructional Communication. Maximum of 6 hours of Directed Study can be applied to any graduate degree. Prerequisite: Approval of instructor, department head, and Dean.
- 599. THESIS. 1-6 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.

GRADUATE COURSES 107

**COMPUTER INFORMATION SYSTEMS
(CINS)****For Undergraduates and Graduates**

- 455. END-USER SUPPORT. 3 cr.** Provision of technical support in selection of hardware and software; training in use of hardware and software; and assistance in use of computer information systems in solving business problems. Prerequisites: 306, 340, 350, and Business 305, or permission of instructor.

For Graduates Only

- 505. INFORMATION SYSTEMS DEVELOPMENT. 3 cr.** Problem solving, programming logic, and algorithmic specification using a modern programming language; Networks/telecommunications; data and organizational modeling; development and implementation of relational database models using SQL and a modern DBMS.
- 510. ELECTRONIC COMMERCE INFORMATION SYSTEMS. 3 cr.** Introduction to e-commerce business solutions; e-commerce architecture, e-commerce technology; Internet services; security; Utilizes case studies dealing with technical, societal, and legal issues/problems related to e-commerce information systems. Prerequisites: CINS 350 or BMBA 509.
- 530. SYSTEMS ANALYSIS. 3 cr.** Systems development methodologies with focus on structured tools and techniques for modeling data flows, data structures, and process specifications; principles of project management; special consideration given to approaches for development of electronic commerce information systems. Introduction to design techniques. Prerequisites: CINS 510 and CINS 505 (or CINS 220, CINS 306, CINS 340 or proficiency in programming, networking, and database.)
- 535. ELECTRONIC COMMERCE APPLICATIONS DEVELOPMENT. 3 cr.** Development and implementation of electronic commerce applications; strategies and techniques for designing and implementing multi-tier distributed applications for use on the Internet. Prerequisites: CINS 530.
- 591. DIRECTED STUDY. 3 cr.** Individual study of topics in advanced computer information systems under the direction of a senior faculty member. Prerequisites: Twelve semester hours of BMBA courses and a minimum graduate GPA of 3.5.

**COMPUTER SCIENCE
(CSCI)****For Undergraduates and Graduates**

- 411. OPERATING SYSTEMS. 3 cr.** Theory and implementation of operating systems including process management, device management, memory management, and file system management. Security, networking, and distributed operating systems. Prerequisites: 264, 265, 305, and 310.
- 412. ARCHITECTURE. 3 cr.** Computer hardware architectures including microcomputers, minicomputers, mainframes and supercomputers; memory organization including cache and virtual memory; pipelining; RISC architecture; parallel processing architectures; comparison of representative architectures. Prerequisites: CSCI 264, 265, and 305.
- 435. LINEAR PROGRAMMING. 3 cr.** Development of the simplex algorithm, revised simplex, duality, and application. Prerequisite: Mathematics 202.
- 436. INTRODUCTION TO MATHEMATICAL CONCEPTS IN OPERATIONS RESEARCH. 3 cr.** A mathematical approach to concepts in advanced linear and nonlinear programming, dynamic programming, game theories, queueing theory and other standard topics in operations research. Prerequisites: 435 and Mathematics 303. (Same as Mathematics 436.)
- 442. SIMULATION AND MODELING. 3 cr.** General principles of stochastic simulation. Model development, analysis, and validation. Comparison of alternative models. Use of special-purpose simulation languages. Prerequisites: CSCI 305 and Mathematics 303.
- 455. THEORY OF DATABASE MANAGEMENT SYSTEMS. 3 cr.** Logical and physical data and file organization; hierarchical, network, and relational data models; data normalization; query facilities; current literature in the database area. Prerequisite: Grade of C or better in 273.
- 475. KNOWLEDGE DISCOVERY IN DATABASES. 3 cr.** An introduction to the field of Knowledge Discovery in Databases, KDD. Topics to be included are: data selection, cleaning, coding, pattern recognition, the discovery of hidden knowledge, learning rules, and data mining algorithms for large databases. Prerequisites: 455 and Mathematics 303.

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- 481. EXPERT SYSTEMS. 3 cr.** A course in Applied Artificial Intelligence for non-programmers who are interested in the use and development of expert systems within their own fields of study. Not applicable toward a degree in computer science. Prerequisite: Senior or graduate standing.
- 483. ARTIFICIAL INTELLIGENCE. 3 cr.** Study of the computer in context with human thought processes. Heuristic programming; search strategies; knowledge representation; perception; learning; natural language understanding; user interfaces; intelligent systems. Prerequisites: 305 and 310.

For Graduates Only

- 503. COMPUTER SCIENCE FOR PROFESSIONALS. 3 cr.** Presentation of computer science fundamentals from the perspective of professional usage.
- 504-506. ADVANCED COMPUTER SCIENCE FOR PROFESSIONALS. 3 cr. each.** Continuation of Computer Science 503, including advanced programming, data structures, and applications. Prerequisite: 503.
- 505. COMPUTER APPLICATIONS FOR PROFESSIONALS. 3 cr.** Extensive work with software utilization and applications. Prerequisite: 503.
- 507-508. COMPUTER SCIENCE FOR THE SECONDARY COMPUTER SCIENCE TEACHER. 3 cr. each.** Current topics for the high school classroom are presented at an elementary level and reinforced with advanced material. Prerequisite: Advanced programming skills and Approval of the Department Head.
- 509. PROGRAMMING IN LOGOWRITER. 3 cr.** Standard programming topics such as sequence, iteration, selection, procedures, text processing, graphics, and recursion will be implemented in the LogoWriter language. Prerequisite: 503.
- 510. FUNDAMENTALS OF SOFTWARE DEVELOPMENT. 3 cr.** An introduction to the process of algorithmic development using modern programming languages, machine organization as it relates to data representation and portability, validation and verification, and the social and ethical problems related to software. Prerequisite: 504 or Consent of Department Head.
- 511. SOFTWARE METHODOLOGY. 3 cr.** An introduction to the principles and methods used in the development of large software systems. The concept of abstract data types as it relates to internal and external data is introduced and reinforced through the characterization of fundamental data and file structures. Computational complexity and object-oriented programming concepts are also introduced. Prerequisite: 510.
- 514. INTEGRATING INTERNET WITH INSTRUCTION. 3 cr.** Introduction to the use of Internet, technological information, national, and state standards for mathematics and science, reform methodologies, classroom techniques. Prerequisite: 503 or Consent of Department Head. Not open to students with prior credit in 516.
- 516. RESEARCH WITH THE INTERNET. 3 cr.** Internet and common tools of access such as telnet, FTP, e-mail, gopher, WWW, and Mosaic. Discussion of Internet in the classroom, workplace, and research. Emphasis on research use. Prerequisite: 503 or consent of department head. Not open to students with prior credit in 514.
- 520-521. STATISTICAL METHODS FOR THE EXPERIMENTER. 3 cr. each.** Data description, probability and probability distributions, estimation and tests of hypothesis, linear regression and correlation, multiple comparisons, multiple regression; analysis of variance for completely randomized, randomized block, Latin square, factorial and k-way classification, and unbalanced designs; expected mean squares, analysis of covariance. The use of SAS and SPSS statistical computer packages. Emphasis is on methodology and only a high school background in mathematics and no prior knowledge of statistics is assumed. Credit cannot be earned in both 437-438 and 520-521. (Same as Mathematics 520-521.)
- 522. MULTIVARIATE STATISTICAL METHODS FOR RESEARCHERS. 3 cr.** An introductory course in applied multivariate statistical methods for the researcher. Emphasis is on concepts and the application of procedure. Topics to be covered include multivariate normal distribution theory, statistical distance, hypothesis testing, multivariate structure, graphics, and exploratory techniques. Same as Mathematics 522.
- 536. MATHEMATICAL CONCEPTS OF OPERATIONS RESEARCH. 3 cr.** Game Theory, convexity, nonlinear programming, classical optimization, theory of queues, simulation techniques. Prerequisite: 435.
- 591. DIRECTED STUDY. 1-6 cr. Maximum, 6 cr.** Individual work on special problems in computer science. Subject Areas: A. Applications; B. Software; C. Mathematics of Computation; D. Hardware. Prerequisite: Approval of Department Head.

GRADUATE COURSES 109**COUNSELING
(COUN)****For Undergraduates and Graduates**

- 433. INTERPERSONAL COMMUNICATION. 3 cr.** Paired, triad, and small group involvement to develop awareness of various communicative skills utilized in the interpersonal relationship and increase effectiveness in interpersonal communication.
- 434. CAREER DEVELOPMENT IN THE ELEMENTARY SCHOOLS. 3 cr.** Methods and systems of introducing the world of work to elementary school children. 435.
- 464. COUNSELING PROCEDURES. 3 cr.** The study of theory, processes, and relationships involved in individual and family counseling approaches and practices. Designed as a pre-practicum experience, the course includes laboratory demonstrations and practice to develop initial counseling skills.
- 480. EFFECTIVE PARENTING. 3 cr.** Designed to help students and parents-to-be understand the principles and techniques of establishing effective parent-child relationships.
- 481. CONTINUING STUDIES IN COUNSELING AND THERAPY. 1-3 cr.** Various topics in counseling, therapy and human relations. May be repeated. Credit may not be applied toward a degree. Grade of CR (Credit) or NC (No Credit) will be awarded.
- 491. DIRECTED STUDY. 1-6 cr.** Investigative study on selected problems by students with particular needs.

For Graduates Only

- 501. INTRODUCTION TO COUNSELING. 3 cr.** This course provides an introduction to the counseling profession. Principles, purposes, historic events, current concerns, societal-legal-ethical issues are covered. This course serves as an orientation to the profession. (Formerly Counseling: Principles and Administration.)
- 505. THEORIES OF COUNSELING. 3 cr.** A survey of the major counseling theories, with emphasis on application of the theories in counseling sessions and an integration of theories into a unified counseling strategy which each student will develop based on that student's counseling strengths.
- 510. METHODS OF COUNSELING. 3 cr.** This course is designed to teach basic counseling methods and to enable the student to apply the counseling methods through participation in simulated and real counseling experiences. Prerequisites: 505 or concurrent enrollment or Psychology 571.
- 521. MALADAPTIVE BEHAVIOR. 3 cr.** A study of normal and abnormal manifestations of individual personality development including theory and diagnosis. Emphasis will be placed on integration of this material with systems concepts. (Formerly Individual Development. Same as Marriage and Family Therapy 521.)
- 522. HUMAN GROWTH AND DEVELOPMENT. 3 cr.** A study of human growth and development throughout the life span.
- 529. INTERAGENCY AND INTERDISCIPLINARY TEAMING. 3 cr.** Designed to provide information, skills, and strategies necessary for interventionists working in a collaborative/teaming service provision structure. Prerequisite: Special Education 527 or permission of instructor. (Same as Special Education 529.)
- 550. EFFECTIVE CONSULTATION. 3 cr.** Designed to build competencies of educators in consultation skills with educational administrators, ancillary personnel, teachers, parents, students, and other professionals. (Same as Special Education 550.)
- 560. STRATEGIES OF LIFE AND CAREER DEVELOPMENT. 3 cr.** The study of theories and trends in career development with direct implementation of theories into practices.
- 561. COUNSELING TECHNOLOGY AND INFORMATION SYSTEMS. 3 cr.** Methods of collecting, interpreting, presenting, and evaluating vocational and educational information.
- 562. ASSESSMENT: METHODS AND MEASURES. 3 cr.** The study of individual, group, and family assessment methods and measures.
- 564. ORGANIZATION AND ADMINISTRATION OF COUNSELING PROGRAMS. 3 cr.** This course is designed to provide students with the specific knowledge and skills necessary to organize, administer, and evaluate counseling programs in various settings.
- 565. PRACTICUM IN COUNSELING. 3-6 cr.** Students provide vocational, educational, personal, and family counseling under staff supervision. A minimum of one hundred hours of counseling is required. This course, when offered in the summer, will be offered as a ten-week course. Prerequisites: 505, 510, and 667. (Counseling majors only or permission of department head.) \$25 clinical fee
- 566. SCHOOL COUNSELING. 3 cr.** The study of basic concepts of school counseling. Through a developmental approach to counseling in schools, students learn to draw relationships among the concepts and principles of individual, family, and group counseling and apply that knowledge to school settings.

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- 581. RESEARCH. 3 cr.** Study of principal research methods, significant existing research, and application of research principles in counseling and marriage and family therapy.
- 591. DIRECTED STUDY. 1-6 cr.** Investigative study in selected problems for advanced graduate students.
- 599. THESIS. 1-6 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.
- 611. COLLEGE STUDENT PERSONNEL SERVICES. 3 cr.** Study of the role and function of student services within colleges and universities.
- 650. COUNSELING WITH SPECIAL POPULATIONS. 3 cr. Maximum, 12 cr.** The study of unique features and problems in working with special populations. Designed as a post-practicum experience, involving course work and laboratory activity. A. Mature and Aged Populations; B. Multicultural Populations; C. Sexual Minority Populations; D. Selected Populations.
- 662. HUMAN SEXUALITY. 3 cr.** A study of the biological, psychosocial, clinical, and cultural aspects of human sexuality. (Same as Marriage and Family Therapy 662.)
- 663. LEGAL AND ETHICAL ISSUES. 3 cr.** A study of the legal, ethical, and professional concerns in the practice of counseling and marriage and family therapy.
- 664. FAMILY CONSULTATION. 3 cr.** A study of the models and process of family consultation used in marriage and family therapy.
- 665. ADVANCED PROCEDURES. 3 cr.** The study of specialized processes and techniques involved in individual and family systems approaches and practices. Designed as a post-practicum experience, the course involves laboratory activity and practice to refine specialized procedures. Prerequisite: 510 or permission of instructor. (Same as Marriage and Family Therapy 665.)
- 666. ADVANCED THEORY. 3 cr.** An in-depth study of counseling and systems theories and supportive research including practical application of techniques used in individual and family therapy. (Same as Marriage and Family Therapy 666.)
- 667. GROUP COUNSELING. 3 cr.** An examination of the theories, processes, and evaluative methods of group counseling. Group supervision and group participation required. Grades of CR (Credit) or NC (No Credit) will be awarded. Prerequisites: 505, Counseling/Marriage and Family Therapy 510. (Counseling, Marriage and Family Therapy, and Substance Abuse Counseling majors only or permission of department head.)
- 668. SEMINAR. 3 cr. Maximum, 9 cr.** Advanced study of selected topics.
- 670. INTERNSHIP. 3-12 cr.** Supervised work experience in clinics, schools, colleges, or other agencies engaged in professional counseling and therapy services. Grades of CR (Credit) or NC (No Credit) will be awarded. This course, when offered in the summer, will be offered as a ten-week course. Prerequisite: Approval of department head. (Counseling majors only or permission of department head.) \$25 field experience fee
- 687. SUPERVISION. 3 cr.** In-depth examination of the major models of clinical supervision, review of the supervisory relationship process, and the procedural, ethical, and legal responsibilities associated with supervision.

CRIMINAL JUSTICE (CJUS)

For Undergraduates and Graduates

- 400. CORRECTIONAL TREATMENT. 3 cr.** An overview and an examination of the basics of classification and counseling approaches, emphasizing interpersonal skills development, data collection, interviewing, assessment techniques, and counseling. Prerequisites: 101, 270, and Junior standing or Approval of Program Director.
- 405. THEORIES OF CRIME AND DELINQUENCY. 3 cr.** An analysis of the extent of crime and delinquency; impact of crime and delinquency on society; physical, social, and psychological causation of crime and delinquency; and current issues in criminology. (Same as Sociology 405.) (Formerly Criminology.)
- 415. JUVENILE DELINQUENCY AND JUSTICE. 3 cr.** The nature, extent, and causes of juvenile delinquency; factors in its treatment and prevention, including community and agency programs; and analysis of the legal system as it applies to juveniles. (Same as Sociology 415.) (Formerly Juvenile Delinquency.)
- 416. CONTEMPORARY ISSUES IN CRIMINAL JUSTICE. 3 cr.** Examination of the literature and analysis of current issues relevant to criminal justice. Prerequisite: Junior, Senior, or Graduate standing.
- 418. CONSTITUTIONAL LAW AND CRIMINAL JUSTICE. 3 cr.** Study of constitutional law and its applicability in the criminal justice system. Prerequisite: Political Science 201. (Same as Political Science 418.)

GRADUATE COURSES 111

- 429. MANAGEMENT OF CRIMINAL JUSTICE AGENCIES. 3 Cr.** The application of supervisory and administrative principles to the management of correctional and police agencies in the United States. Students with prior credit for CJUS413 and/or 414 are not eligible to receive credit in CJUS 429. Prerequisite: Junior or Senior standing or Permission of the Department Head.
- 491. DIRECTED STUDY. 1-3 cr.** Individual examination of relevant literature in student's area of interest as approved and directed by the major professor. May not be repeated for more than 3 hours credit. Prerequisite: Prior Approval of Supervising Instructor.

For Graduates Only

- 501. PROSEMINAR IN CRIMINAL JUSTICE. 3 cr.** An in-depth examination of recent literature related to the social, political, and legal issues affecting the criminal justice system.
- 505. ADVANCED THEORIES OF CRIME AND DELINQUENCY. 3 cr.** An in-depth analysis of selected explanations of criminal behavior. Readings will include original works of sociological, psychological, and other theorists. Contemporary research will be given considerable attention. Prerequisite: Undergraduate or graduate course in criminological or delinquency theory or Permission of the Department Head. (Formerly Criminological Theory.)
- 510. ADVANCED RESEARCH METHODS IN CRIMINAL JUSTICE. 3 cr.** Techniques, processes, and methods of research in criminal justice with emphasis on both traditional and contemporary (electronic) sources. Development and completion of research project integrating use of computerized data bases and other electronic and traditional sources of criminal justice data. Prerequisite: Undergraduate or graduate course in research methods, familiarization with computers, or Permission of the Department Head. (Formerly Planning and Research in Criminal Justice.)
- 514. JUVENILE JUSTICE SYSTEM. 3 cr.** An examination of the juvenile justice system: history, structure, and interrelationships among law enforcement, the courts, and corrections. Federal, State, and local laws and programs are explored with an emphasis upon case law and statutory law, both historical and current. Issues in terms of the philosophy of *parens patriae* and constitutional procedures are explored.
- 540. COUNSELING IN CRIMINAL JUSTICE. 3 cr.** An in-depth study and evaluation of counseling as applied in the criminal justice setting, law enforcement, and corrections. A psycho-social approach to the understanding of behavior is emphasized with priority given to immediacy. Crisis intervention, interviewing, interpersonal communication, and various treatment models are explored.
- 550. POLICE AND SOCIETY. 3 cr.** A critical examination of the police and their relationship to society. Attention will be given to the role of police; full service policing; ethnic tensions as correlated to the ghetto and police sub-culture; police stress, discretion, conduct, unionization, corruption, and professionalism; and legal issues related to due process of law.
- 555. SOCIOLOGY OF LAW. 3 cr.** An analysis of social behavior and its relationship to the development of law; law as a control mechanism; social behavior as it relates to the police, courts, and corrections; portrayal of the criminal justice system components in the media; and social change and the law. (Same as Sociology 555.)
- 573. SEMINAR IN CRIMINAL JUSTICE ADMINISTRATION. 3 cr.** Examination of administrative principles as they apply to criminal justice agencies.
- 576. MINORITIES, CRIME, AND CRIMINAL JUSTICE. 3 cr.** Examination of the role of minorities in the criminal justice system: as victims; as offenders; as defendants; as prisoners; as employees; and as professionals. (Same as Sociology 576.)
- 585. ORGANIZED CRIME, DRUGS, AND VICE. 3 cr.** An in-depth study of organized crime, drug, and vice offenses within the structures of a constitutional democracy. Included within the study is the historical background of organized crime and the present status of these identified groups. Prerequisite: Permission of Department Head.
- 591. DIRECTED RESEARCH. 3 cr.** A survey of current literature and/or research on a topic to be approved and directed by a member of the Graduate Faculty. Prerequisite: Criminal Justice 510, 21 hours of Criminal Justice course work, non-thesis specialization degree plan, and Approval of Program Director.
- 593. COMPARATIVE CRIMINAL JUSTICE. 3 cr.** A cross-national survey of crime and criminal justice. Emphasis will be on crime rates, forms of criminality, police, courts, and corrections. Descriptive material on selected countries will be analyzed and compared. Although the major emphasis will be on the substantive content of assigned readings, some attention will be given to research methodology.
- 595. PROFESSIONAL PRACTICE. 3 cr.** Placement in a criminal justice agency approved by the Criminal Justice Program Director or assignment of a teaching internship in an introductory Criminal Justice course. Restricted to students who have not been previously employed in a criminal justice agency or who have not served as graduate teaching assistants. Prerequisite: completion of 21 hours of graduate work in Criminal Justice, a GPA of 3.00 or better, and Approval of Program Director.
- 599. THESIS. 1-6 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.

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CURRICULUM AND INSTRUCTION (CURR)

For Undergraduates and Graduates

- 402. TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION. 3 cr.** Purposes and needs of testing with emphasis on technique and administration of tests in physical education. Prerequisite: For graduate credit a valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 414. CURRICULUM DESIGN AND EVALUATION. 3 cr.** Theory and practices of curriculum design and evaluation; social and psychological factors related to the adoption and acceptance of new programs in public schools.
- 429. DIAGNOSIS AND REMEDIATION OF READING IN SECONDARY SCHOOLS. 3 cr.** A study of diagnostic and remedial reading procedures as they apply to secondary schools. Prerequisite: For graduate credit a valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 431. METHODS AND MATERIALS IN HEALTH EDUCATION. 3 cr.** Materials, techniques, and methods of teaching health in schools. Ten (10) hours of classroom observation will be completed during this course. Prerequisite: Junior standing and for graduate credit a valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator. (Formerly Kinesiology 431.) F, Sp, Sum
- 450. MULTICULTURAL EDUCATION. 3 cr.** Introduction to sub-cultures including political, economic, and social backgrounds and the impact on educational needs and methodology. Prerequisite: For graduate credit a valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 470. DRUG ABUSE EDUCATION. 3 cr.** Content and techniques for elementary and secondary school curriculum development and implementation in the area of drug abuse.
- 475. CRISIS INTERVENTION IN SCHOOLS. 3 cr.** Designed to provide students practical training for non-violent intervention in the school setting. It will focus on ways to defuse and handle with confidence children, adolescents and adults who are disruptive and violent, and how to cope with violent confrontations and students armed with weapons. Prerequisite: Junior standing or Permission of Instructor.
- 481. CONTINUING STUDIES IN CURRICULUM AND INSTRUCTION. 1-3 cr.** Various topics in curriculum and instruction. May be repeated. Credit may not be applied toward a degree. Grade of CR (Credit) or NC (No Credit) will be awarded.
- 482. TECHNOLOGY FOR TEACHING AND LEARNING. 3 cr.** Provides experiences with planning and delivery of instruction that integrates a variety of software, hardware, applications, and learning tools. Develops technology and content rich lessons that promote improved students learning and reflect effective grouping and assessment strategies for diverse populations. Prerequisite: CURR 285 or Permission of Instructor.
- 483. PRACTICUM. 3-6 cr.** Internship program designed to give supervised experience in the school. A. Elementary; B. Secondary. May be repeated for a total of 12 hours credit. Prerequisite: must be admitted to Teacher Education and have approval of Director of Field Experiences. Must meet all other eligibility requirements for Louisiana Teaching Certificate in field of study to earn credit and grade.
- 485. INTEGRATING TECHNOLOGY INTO THE K-12 CURRICULUM. 3 cr.** Provides a survey of and practice with the applications of instructional technology to enhance learning. It provides a review of current and emerging technologies in instruction through an introduction to current research and variety of instructional software and hardware. Prerequisite: CURR 285 or Permission of Instructor.
- 491. DIRECTED STUDY. 1-6 cr.** Investigative study on selected problems by students with particular needs.

For Graduates Only

- 500. CLASSROOM MANAGEMENT AND ORGANIZATION. 3 cr.** Study and application of theories and principles of effective classroom behavior and management techniques, organization, and

GRADUATE COURSES 113

- delivery. Field-based participation required. A. Elementary; B. Secondary. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 503. INSTRUCTIONAL STRATEGIES FOR MIDDLE AND SECONDARY SCHOOLS. 3 cr.** Study and application of teaching strategies and techniques that are applicable to grades 7-12. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 505. COMPUTER APPLICATIONS FOR EDUCATORS. 3 cr.** Extensive work with software utilization and applications. Prerequisite: 482 or Computer Science 503. Sp
- 514. SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION. 3 cr.** Maximum, 9 cr. Designed to meet the needs of advanced graduate students in elementary and secondary education. This course will allow for the development of advanced specific and appropriate strategies and practices necessary in the changing educational setting. A. Interactive Educational Practices; B. Content Restructuring; C. Specific Skill Development; D. Effective Use of Methods and Materials; E. Integrating Various Aspects of Content; F. Managing the Physical and Organizational Structure in the Classroom; I. Other. J. Professional Standards; K. Current Trends. Prerequisites: Must have credit in a methods, behavior management, and/or a curriculum course at the graduate level.
- 516. TEACHING IN A COMPUTERIZED CLASSROOM. 3 cr.** This course will provide experiences in the use of various technologies in content-specific areas. Prerequisite: 482 or Computer Science 503 or Permission of Department Head.
- 518. TECHNOLOGY, INTEGRATION AND PORTFOLIO DEVELOPMENT. 3 cr.** This course will explore technologies that are presently being used as educational tools, and prepare students for technology use beyond the computer based information systems. Prerequisite: 482 or Computer Science 503 or Permission of Department Head.
- 519. CURRENT TRENDS IN JUNIOR HIGH AND MIDDLE SCHOOL INSTRUCTION. 3 cr.** Contrasting patterns of programs for early adolescents; characteristics of middle school and junior high pupils; trends and instructional patterns. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 523. RESEARCH-BASED INSTRUCTION. 3 cr.** This course is designed to prepare candidates to incorporate methods, content, materials, and research in their instructional areas of expertise with emphasis upon classroom integration of research-based methodology. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 542. SECONDARY SCHOOL CURRICULUM. 3 cr.** A survey of present and past factors which affect the secondary school curriculum; an analysis of existing patterns in secondary schools in order to plan for effective curriculum improvement. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 545. EDUCATIONAL TECHNIQUES FOR DIVERSE LEARNERS IN INCLUSIVE CLASSROOMS. 3 cr.** Analysis of the instructional needs of exceptional children and the application of instructional strategies and curricular modifications within regular classroom. A. Elementary; B. Secondary. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator. (Formerly ELED/SPED 545).
- 555. INSTRUCTIONAL DESIGN AND PROGRAM DEVELOPMENT. 3 cr.** Application of instructional design principles to solve performance and instructional problems in school and non-school environments by providing experiences in instructional program development, curriculum design, analysis of state and national school technology standards and planning, design, implementation, and evaluation of technology staff development activities as well as related experiences in non-school environments. (Same as EDFN 555).
- 556. INDIVIDUALIZING INSTRUCTION IN SECONDARY SCHOOLS. 3 cr.** An investigation of individual differences significant to learning and how teachers may arrange learning opportunities based on individual abilities and needs. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator. (Formerly Individualizing Instruction.)
- 557. THEORIES AND PRACTICES OF HUMANISTIC EDUCATION. 3 cr.** Analysis of the interpersonal processes which exist in the classroom with emphasis on open communication and interaction between students and teachers.
- 558. INTERPRETING EDUCATIONAL RESEARCH. 3 cr.** Critical review of research literature and methods with emphasis on understanding and evaluating results. Designed for the student whose professional duties are unlikely to include conducting sophisticated research studies.

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- 559. CAREER EDUCATION. 3 cr.** Curriculum strategies, methods, and techniques of career education with emphasis on student development, vocational information, decision making, and vocational maturity.
- 572. STRATEGIES IN VALUES CLARIFICATION. 3 cr.** Strategies to help learn how to make honest and considered choices; to help clarify one's values on a broad spectrum of issues; to learn how to apply the process in the classroom. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 573. ASSESSMENT AND ACCOUNTABILITY. 3 cr.** Designed for evaluating learning systems with emphasis on constructing measures to evaluate progress and outcomes in social, affective, and cognitive areas.
- 583. INSTRUCTIONAL EFFECTIVENESS. 3 cr.** Identification of characteristics of effective teaching and strategies for appraising teacher effectiveness. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator. (Formerly Effective Teaching.)
- 591. DIRECTED STUDY. 1-6 cr.** Investigative study in selected problems for advanced graduate students.
- 599. THESIS. 1-6 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.
- 604. SEMINAR IN SECONDARY EDUCATION. 3 cr.** Maximum, 9 cr. Seminars designed to meet the needs of advanced graduate students. A. Issues and Trends in Secondary Education; B. Classroom Management and Discipline; C. Content Methodologies; D. Selected Topics.
- 652. PROBLEMS IN CURRICULUM DEVELOPMENT. 3 cr.** Techniques in organizing, conducting, and developing curriculum improvement. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 683. INTERNSHIP. 3-6 cr.** Supervised experience in instruction, supervision, or administration in public schools or higher education. Prerequisite: Approval of Director of Field Experiences. Must meet all other eligibility requirements for Louisiana Teaching Certificate in field of study to earn credit and grade.
- 684. BEST PRACTICES IN MIDDLE/SECONDARY EDUCATION. 3 cr.** This course is designed to build requisite knowledge and skills for selecting and implementing best practices teaching models congruent with specific teaching and learning needs at the middle and/or secondary level.

DANCE (DANC)

For Undergraduates and Graduates

- 405. ORGANIZATION AND ADMINISTRATION OF DANCE IN SCHOOLS. 3 cr.** The organization and administration of dance in schools with emphasis on dance productions, festivals, and dance functions in schools.
- 424. DANCE WORKSHOP. 1-3 cr.** A study of the art of dance including dance history, vocabulary, technique, composition and various elements of movement.
- 491. DIRECTED STUDY. 1-3 cr. Maximum, 6 cr.** Directed study and/or research in selected areas of Dance: D. Dance, E. Selected Topics. Prerequisite: Approval of Department Head.

ECONOMICS (ECON)

For Undergraduates and Graduates

- 410. ECONOMICS OF AGING. 3 cr.** An examination of issues related to the economic status of persons as they grow older. Attention will be given to problems and policies which relate to income maintenance, planned and unplanned expenditures, inflation, reduced income, post-retirement employment, public and private pensions, health insurance, pre-retirement counseling and legislative reforms. Prerequisite: 201 or Sociology 101 or permission of instructor. (Formerly 510, Same as Gerontology 410.)
- 420. ECONOMETRICS. 3 cr.** Econometric theory and modeling stressing time-series forecasting of macroeconomic variables. Applied analysis using regression techniques with some cross-section estimation. Prerequisites: 305 or 312, Quantitative Methods 210.

For Graduates Only

- 501. SEMINAR. 3 cr.** Selected current problems in economics; coordinated individual studies will be pursued, with group analysis and discussion at regular class meetings. Prerequisites: 201, 202.

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- 502. SURVEY AND ANALYSIS. 3 cr.** Fundamental theories of macro- and micro- economics and their application in the development of economic policies to achieve public and private economics goals. (Not applicable as an elective for MBA students.)
- 506. HEALTH ECONOMICS. 3 cr.** Analysis of the health care industry and markets. Incentives of market participants; patients, physicians, hospitals, and third-party payers as well as market outcomes are discussed.
- 591. DIRECTED STUDY. 3 cr.** Individual study of topics in advanced economics under the direction of a senior faculty member. Prerequisites: Twelve semester hours of BMBA courses and a minimum graduate GPA of 3.5.

EDUCATIONAL ADMINISTRATION AND SUPERVISION (EDAS)**For Undergraduates and Graduates**

- 481. CONTINUING STUDIES IN EDUCATIONAL ADMINISTRATION AND SUPERVISION. 1-3 cr.** Various topics in educational administration and supervision. Credit may not be applied toward a degree. May be repeated. Grade of CR (Credit) or NC (No Credit) will be awarded.

For Graduates Only

- 501. FOUNDATIONS OF EDUCATIONAL ADMINISTRATION. 3 cr.** Introduction to the field of educational administration including study of the administrative process, administrative behavior, social systems and systems analysis. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission of the department head. F, Sum
- 514. SCHOOL LAW. 3 cr.** Local, state, and federal statutory, constitutional and case laws, rulings, and opinions affecting education; legal rights and responsibilities of school personnel. Prerequisites: 501 and Educational Foundations 581. Valid Louisiana teaching certificate or equivalent or written permission of the department head. F, Sum
- 515. SCHOOL FINANCE AND TAXATION. 3 cr.** Principles of taxation; local state, and federal financing of public education; equalization of educational opportunity, budget making. Prerequisites: 501 and Educational Foundations 581. Valid Louisiana teaching certificate or equivalent or written permission of the department head. Sp
- 521. SUPERVISION IN ELEMENTARY AND SECONDARY SCHOOLS. 3 cr.** Introduction to principles and techniques of instructional supervision in elementary and secondary schools. Prerequisites: 501 and Educational Foundations 581. Valid Louisiana teaching certificate or equivalent or written permission of the department head. F, Sp, Sum
- 523. SUPERVISION OF STUDENT TEACHING. 3 cr.** For teachers preparing to become supervising teachers; emphasis on developing students into effective, elementary and secondary teachers. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission of the department head. Sp, Sum
- 591. DIRECTED STUDY. 1-6 cr.** Investigative study in selected problems for advanced graduate students. Prerequisite: Approval of instructor.
- 599. THESIS OR FIELD STUDY. 1-6 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission of the department head.
- 616. THE VISITING TEACHER. 3 cr.** Functions of the visiting teacher, home and school visitation programs, analysis of attendance and related problems, promotion of school-home relationships, maintaining of necessary records. Prerequisites: 501 and Educational Foundations 581. Valid Louisiana teaching certificate or equivalent or written permission of the department head. (Formerly 516.)
- 618. SCHOOL COMMUNITY RELATIONS. 3 cr.** The dynamics of the interactions of schools with the elements of community are examined. Multicultural and multiracial concepts and the impact of these concepts on educational administration, processes and organization are emphasized. The designing of programs around the needs and problems of the school and its special publics is stressed also. Prerequisites: 501 and Educational Foundations 581. (Formerly 653B, Seminar in Educational Administration: School-Community Relations.) Sp, Sum II
- 619. SCHOOL PERSONNEL ADMINISTRATION. 3 cr.** This course is designed to improve the knowledge and competencies of those individuals in our school systems who are responsible for the development and management of human resources. More specifically, purposes include development of insight concerned with organization, plans, policies, procedures, and processes of personnel administration. Prerequisites: 501 and Educational Foundations 581. Valid

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Louisiana teaching certificate or equivalent or written permission of the department head. (Formerly 653C, Seminar in Educational Administration: School Personnel Administration.) F, Sum II

- 622. ADVANCED SUPERVISION OF INSTRUCTION. 3 cr.** Advanced study of selected aspects related to supervision of instruction including organization of in-service programs, clinical supervision and evaluation of teaching. Prerequisite: 521. Valid Louisiana teaching certificate or equivalent or written permission of the department head. (Formerly 522.) Sp, Sum
- 634. ELEMENTARY SCHOOL PRINCIPALSHIP. 3 cr.** Administrative and supervisory responsibilities of the elementary school principal. Prerequisites: A minimum of 18 hours of required EDAS courses and Educational Foundations 581. Valid Louisiana teaching certificate or equivalent or written permission of the department head. (Formerly 534.) Sp
- 644. SECONDARY SCHOOL PRINCIPALSHIP. 3 cr.** Administrative and supervisory responsibilities of the secondary school principal. Prerequisites: A minimum of 18 hours of required EDAS courses and Educational Foundations 581. Valid Louisiana teaching certificate or equivalent or written permission of the department head. (Formerly 544.) Sp
- 684. EDUCATIONAL ADMINISTRATION INTERNSHIP I. 3 cr.** This course provides 120 clock hours of supervised field-based experience in general school administration. Must meet all other eligibility requirements for Louisiana Teaching Certificate in field of study to earn credit and grade. (Candidate must pass PRAXIS Educational Leadership test to complete course)

EDUCATIONAL FOUNDATIONS (EDFN)

For Undergraduates and Graduates

- 401. ASSESSMENT. 3 cr.** Principles of tests and measurement for elementary and secondary teachers; types of tests, essentials of test items; objective and standardized tests. Prerequisite: Must be admitted to Teacher Education. For graduate credit, a valid Louisiana teaching certificate or written permission of Certification Coordinator. F,Sp,S
- 430. SPECIAL TOPICS. 1-6 cr. Maximum, 6 cr.** A. Study of International Education on Location; B. Study of United States School Systems on Location; C. Comparative Education; D. Evaluation in Education; E. Educational Technology and Media.
- 436. EDUCATIONAL DATA PROCESSING. 3 cr.** Principles of electronic data processing in education.
- 439. FUNDAMENTALS OF STATISTICS IN EDUCATION. 3 cr.** Tools necessary for competence in education statistics. Algebraic, geometric and trigonometric functions; principles of scaling and score transformation; principles of reliability and validity estimation. Prerequisite: For graduate credit, a valid Louisiana teaching certificate or written permission of Certification Coordinator.
- 481. CONTINUING STUDIES IN EDUCATIONAL FOUNDATIONS. 1-3 cr.** Various topics in educational foundations including educational evaluation, media and technology. Credit may not be applied toward a degree. May be repeated. Grade of CR (Credit) or NC (No Credit) will be awarded.
- 491. DIRECTED STUDY. 1-6 cr.** Investigative study on selected problems by students with particular needs.

For Graduates Only

- 524. UTILIZATION OF INSTRUCTIONAL TECHNOLOGIES. 3 cr.** This course provides an overview of the selection, organization, and integration of technology-based instruction materials, computer software, and computer hardware systems into instructional settings. Prerequisite: CURR 285 or equivalent.
- 525. INSTRUCTIONAL TELECOMMUNICATIONS, NETWORKS AND THE INTERNET. 3 cr.** This course assumes familiarity with the World Wide Web. Students will develop skills in the use of planning, development, implementation, and management of distance learning, networking, and Internet use for teaching and learning. Students will engage in hands-on activities that demonstrate the required skills. Prerequisite: CURR 285 or equivalent.
- 527. TRENDS IN INSTRUCTIONAL TECHNOLOGY. 3 cr.** Survey course of past, present and future aspects of instructional technology as it relates to instructional settings.
- 528. INSTRUCTIONAL MEDIA DEVELOPMENT. 3 cr.** This course provides instruction in organization, design, preparation, and application of technology-based production of instructional materials for print and Web-based distribution. Prerequisite: Curriculum and Instruction 285 or equivalent.
- 539. STATISTICS AND DATA PROCESSING IN EDUCATION. 3 cr.** Theory and application of frequency distribution, graphic methods, central tendency, variability, correlation, sampling, and hypothesis testing. Introduction to nonparametric statistics. F

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- 553. HISTORY OF EDUCATION. 3 cr.** Development of educational theory and practice from ancient to modern times.
- 554. PHILOSOPHY OF EDUCATION. 3 cr.** Philosophical bases of educational policies and practices. F
- 555. INSTRUCTIONAL DESIGN AND PROGRAM DEVELOPMENT. 3 cr.** Application of instructional design principles to solve performance and instructional problems in school and non-school environments by providing experiences in instructional program development, curriculum design, analysis of state and national school technology standards and planning, design, implementation, and evaluation of technology staff development activities as well as related experiences in non-school environments.
- 581. RESEARCH. 3 cr.** Principal research methods; study of existing research; application of research principles. F, Sp, Sum
- 625. DESIGN AND DEVELOPMENT OF MULTIMEDIA AND INTERACTIVE INSTRUCTION. 3 cr.** This course provides an overview of the process of researching, planning, designing, implementing, and evaluating multi-sensory instructional units. Hands-on class projects will be developed that result in an integrated instructional approach to teaching and learning. Prerequisites: Educational Foundations 555.
- 626. TECHNOLOGY LEADERSHIP IN SCHOOLS. 3 cr.** This course will provide a foundation for managing technology for teaching and learning at the school site. These skills include school-wide planning that incorporates instructional design, curriculum integration with the standards, logistics of technology implementation with the local site, training, and evaluation. Students will implement projects for local site improvement. Prerequisite: Educational Foundations 555 or permission of the instructor.
- 627. TECHNOLOGY PLANNING AND ADMINISTRATION. 3 cr.** This course includes experiences in technology planning, facilities and resource management, technology staff and personnel management, funding and budgetary issues, technology policies and procedures, school connectivity planning, and purchasing practices. Prerequisite: Six hours in instructional media and technology services, including 426. (Formerly Administration of Educational Media Programs.)
- 628. ADVANCED TELECOMMUNICATIONS AND DISTANCE EDUCATION. 3 cr.** This course includes experiences in development of Internet/Web-based learning materials and resources, overview of distance technologies for learning, national curriculum standards, advanced Internet applications, research on the applications of telecommunications and other distance technologies in education, emerging telecommunications and distance learning technologies, and methodologies for distance/on-line instruction and student support. Prerequisites: Educational Foundations 525.
- 654. HISTORY OF AMERICAN EDUCATION. 3 cr.** Development of elementary, secondary, and higher education in the United States from the Colonial period to the present. Sum
- 680. INSTRUCTIONAL TECHNOLOGY RESEARCH, EVALUATION, AND ASSESSMENT. 3 cr.** Identification and application of instructional and technology-related research, the psychology of learning, and instructional design principles guiding the use of computers and related technologies in instructional settings. Prerequisites: Educational Foundations 555, 581.
- 681. HISTORY AND PHILOSOPHY OF AMERICAN HIGHER EDUCATION. 3 cr.** The origin and development of colleges in the United States.
- 691. ADVANCED EDUCATION STATISTICS. 3 cr.** Parametric and non-parametric inferential statistics; analysis of variance, covariance, partial and multiple, correlation and special techniques of correlation with computer programming and application. Prerequisite: 539.
- 692. RESEARCH SEMINAR. 3 cr.** An integration of research theory and techniques, including computer usage, measurement theory and statistical design. Emphasizes development of hypotheses, principles of research design, and development of the research proposal. Prerequisite: 539 and 581 or their equivalent. Sp, Sum II.

**EDUCATIONAL INSTRUCTIONAL TECHNOLOGY
(EDIT)****For Graduates Only**

- 525. INSTRUCTIONAL TELECOMMUNICATIONS, NETWORKS AND THE INTERNET. 3 cr.** This course assumes familiarity with the World Wide Web. Students will develop skills in the use of planning, development, implementation, and management of distance learning, networking, and Internet use for teaching and learning. Students will engage in hands-on activities that demonstrate the required skills. Prerequisite: CURR 285 or equivalent or permission of instructor.

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- 527. TRENDS IN INSTRUCTIONAL TECHNOLOGY. 3 cr.** Survey course of past, present and future aspects of instructional technology as it relates to instructional settings.
- 528. INSTRUCTIONAL MEDIA DEVELOPMENT. 3 cr.** This course provides instruction in organization, design, preparation, and application of technology-based production of instructional materials for print and Web-based distribution. Prerequisite: Curriculum and Instruction 285 or equivalent permission of instructor.
- 555. INSTRUCTIONAL DESIGN AND PROGRAM DEVELOPMENT. 3 cr.** Application of instructional design principles to solve performance and instructional problems in school and non-school environments by providing experiences in instructional program development, curriculum design, analysis of state and national school technology standards and planning, design, implementation, and evaluation of technology staff development activities as well as related experiences in non-school environments.
- 625. DESIGN AND DEVELOPMENT OF MULTIMEDIA AND INTERACTIVE INSTRUCTION. 3 cr.** This course provides an overview of the process of researching, planning, designing, implementing, and evaluating multi-sensory instructional units. Hands-on class projects will be developed that result in an integrated instructional approach to teaching and learning. Prerequisites: Educational Instructional Technology 555 or permission of instructor.
- 626. TECHNOLOGY LEADERSHIP IN SCHOOLS. 3 cr.** This course will provide a foundation for managing technology for teaching and learning at the school site. These skills include school-wide planning that incorporates instructional design, curriculum integration with the standards, logistics of technology implementation with the local site, training, and evaluation. Students will implement projects for local site improvement. Prerequisite: Educational Instructional Technology 555 or permission of the instructor.
- 627. TECHNOLOGY PLANNING AND ADMINISTRATION. 3 cr.** This course includes experiences in technology planning, facilities and resource management, technology staff and personnel management, funding and budgetary issues, technology policies and procedures, school connectivity planning, and purchasing practices. Prerequisite: Six hours in instructional media and technology services, including 426 or permission of instructor. (Formerly Administration of Educational Media Programs.)
- 628. ADVANCED TELECOMMUNICATIONS AND DISTANCE EDUCATION. 3 cr.** This course includes experiences in development of Internet/Web-based learning materials and resources, overview of distance technologies for learning, national curriculum standards, advanced Internet applications, research on the applications of telecommunications and other distance technologies in education, emerging telecommunications and distance learning technologies, and methodologies for distance/on-line instruction and student support. Prerequisites: Educational Instructional Technology 525 or permission of instructor.
- 680. INSTRUCTIONAL TECHNOLOGY RESEARCH, EVALUATION, AND ASSESSMENT. 3 cr.** Identification and application of instructional and technology-related research, the psychology of learning, and instructional design principles guiding the use of computers and related technologies in instructional settings. Prerequisites: Educational Instructional Technology 555 or permission of instructor.
- 683. EDUCATIONAL TECHNOLOGY INTERNSHIP. 3 cr.** This course provides 120 clock hours of supervised field-based experience in instructional technology application or administration. Placement in P-12, higher education, or business settings will be determined by student's degree focus, or permission of instructor. The student's advisor will determine when the internship/practicum will be appropriate for each student.

EDUCATIONAL LEADERSHIP (EDLE)

For Graduates Only

- 500. TEACHER LEADER I: USING DATA FOR SCHOOL IMPROVEMENT. 3 cr.** Emphasizes application of evaluation research principles for school/classroom assessment, collection and assessment of diagnostic data for student achievement, and the study of existing research and instructional strategies. F, Sp
- 505. TEACHER LEADER II: IMPROVING SCHOOL PERFORMANCE 3 cr.** Performance-based course to develop teacher leaders to enhance student achievement. Issues and performances emphasize the practice of leadership in the school culture, instructional settings, curriculum, team activities, decision-making, communication, and learning communities. F, Sp

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- 510. BEST PRACTICES IN LEADERSHIP, TEACHING AND LEARNING. 3 cr.** Introductory course in Tier 2 of Educational Leadership preparation. Includes study of the administrative process, administrative behavior, social systems, systems analysis, and the development and implementation of collaborative visions designed to enhance student learning at all levels. F, Sum I
- 515. LEGAL, ETHICAL AND REGULATORY ISSUES. 3 cr.** A requirement for Teacher Leader certification providing a basis for further study for Educational Leadership and other programs. Local, state, and federal statutory, constitutional and case laws, rulings, and opinions affecting education, legal and ethical responsibilities of school personnel, and application of provisions for special students. F, Sum I
- 520. SYSTEMS DESIGN IN CURRICULUM AND INSTRUCTION FOR EDUCATIONAL LEADERS. 3 cr.** Utilization of best assessment practices to make evaluative judgments about a school's strengths and needs in aligning practices and curriculum to the mission of insuring success for all learners. Curriculum, instruction, and assessment are among the subsystems examined. F, Sum I
- 530. INSTRUCTIONAL LEADERSHIP AND SCHOOL CLIMATE. 3 cr.** Initiates vision of leadership development by integrating elements of the teaching/learning process (planning) with basic leadership skills of communication and motivation. Effects of personal value system on leadership and relationship to ethical practice linked to professional development activities for personnel and appropriate learning outcomes for all students. F, Sum I
- 535. CURRICULUM AND INSTRUCTION FOR EDUCATIONAL LEADERS. 3 cr.** Provides a framework for examining issues and trends in curriculum development. Using data from high-stakes testing, candidates participate in prioritizing, mapping, and monitoring curriculum to insure the success of all learners. Alignment of course content to state standards and assessment and how to know the curriculum is being taught are key components. Sum II, Sp
- 540. INSTRUCTIONAL LEADERSHIP PRACTICES. 3 cr.** Development of instructional leadership skills for analyzing effective teaching/learning behaviors and understanding diversity issues in a multicultural school and community. Assessment of instructional practices through classroom observation, teacher interview, and student disaggregated data with teacher feedback are key course components. Sum II, Sp
- 545. MANAGING SCHOOL AND DISTRICT RESOURCES. 3 cr.** Applies to school leaders at all levels. Administrative and supervisory responsibilities as they relate to finance, buildings and facilities, transportation and other auxiliary programs are explored and practiced. Major emphasis is on finance. Candidates will apply financial knowledge and skills. Sum II, Sp
- 550. PRACTICE OF SCHOOL AND DISTRICT LEADERSHIP. 3 cr.** Applies to school leaders at all level. Administrative and supervisory responsibilities are explored with major emphasis on clinical and field-based activities. Candidates will effectively apply content knowledge in problem-based situations. Sum II, Sp

The following internships are assessed a \$200.00 field experience fee

- 555. EDUCATIONAL LEADERSHIP INTERNSHIP I. 3 cr.** Capstone experience for all candidates seeking administrative certification. Supervised experience in multiple settings beginning before school starts (EDLE 555) and ending after school ends (EDLE 560). Supervision provided by school district mentor and a university faculty member. Includes planned, problem-based experiences including a minimum of 120 clock hours on-site work in 14 specified areas. Two major projects will be completed each semester. (EDLE 555 FALL semester only). \$200 field experience fee.
- 560. EDUCATIONAL LEADERSHIP INTERNSHIP II. 3 cr.** Capstone experience for all candidates seeking administrative certification. Supervised experience in multiple settings beginning before school starts (EDLE 555) and ending after school ends (EDLE 560). Supervision provided by school district mentor and a university faculty member. Includes planned, problem-based experiences including a minimum of 120 clock hours on-site work in 14 specified areas. Two major projects will be completed each semester. (EDLE 560 SPRING semester only). Candidate must obtain a passing score on the SLLA Examination prior to receiving credit for Internship II. \$200 field experience fee.

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ELEMENTARY EDUCATION (ELED)

For Undergraduates and Graduates

- 425. WORKSHOP IN ELEMENTARY EDUCATION. 3 cr. Maximum, 12 cr.** In-service workshop designed to meet identified needs of individuals, schools, or districts. May not be applied to degree.
- 451. EARLY CHILDHOOD EDUCATION. 3 cr.** History, trends and principles of educational programs for children between the ages of three and six. Prerequisite: For graduate credit, a valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator. F, Sum
- 452. NURSERY SCHOOL AND KINDERGARTEN. 3 cr.** Materials, methods, organization, and administration of nursery schools and kindergartens. Prerequisite: 451 and for graduate credit, a valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator. Sp, Sum
- 453. COMMUNICATION AND LITERACY IN EARLY INTERVENTION. 3 cr.** Techniques and strategies for developing languages and teaching language skills to pre-school children. Prerequisite: For graduate credit, a valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator. Sum
- 454. CREATIVE ACTIVITIES FOR EARLY CHILDHOOD EDUCATION. 3 cr.** An investigation of methods to develop children's creative activities within specific content areas. Prerequisite: For graduate credit, a valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator. Sum
- 483. PRACTICUM. 3-6 cr.** Internship program designed to give supervised experience in the school. A. Reading; B. Early Childhood-Kindergarten/Nursery School; C. Elementary Education. Prerequisite: Approval of Director of Field Experiences. Must meet all other eligibility requirements for Louisiana Teaching Certificate in field of study to earn graduate credit and grade.
- 491. DIRECTED STUDY. 1-6 cr.** Investigative study on selected problems by students with particular needs.

For Graduates Only

- 504. ASSESSMENT OF YOUNG CHILDREN. 3 cr.** Strategies for assessing physical, social, emotional, language, cognitive, and aesthetic development of young children from birth through age eight.
- 509. INTEGRATED METHODS FOR EARLY CHILDHOOD. 3 cr.** Knowledge and skills to effectively teach preschool and early elementary students in authentic settings.
- 510. ADVANCED STUDIES IN SCIENCE AND MATH. 3 cr.** An integration of current content, techniques, materials, and research in elementary science and mathematics with emphasis upon inquiry and discovery processes. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 511. ADVANCED STUDIES IN ELEMENTARY LANGUAGE ARTS AND SOCIAL STUDIES. 3 cr.** An integration of the social studies and the language arts with an emphasis on methodological, philosophical and curricular issues. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 518. LITERATURE FOR CHILDREN AND YOUNG ADULTS. 3 cr.** Investigation in writings for children and young adults with emphasis on broad application in teaching. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator. (Same as Reading 518.)
- 520. SPECIALIZED INSTRUCTIONAL PRACTICES IN THE ELEMENTARY SCHOOL. 3 cr.** Analysis and application of effective teaching skills for the elementary teacher. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 521. EXPANDING COMPETENCIES IN CLASSROOM MANAGEMENT. 3 cr.** Analysis of classroom management and motivation techniques, ways to cope with disruptive behavior, promoting moral reasoning, and dealing with parents in a pluralistic society. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 522. HUMAN GROWTH AND DEVELOPMENT. 3 cr.** The influence of developmental characteristics on learning experiences throughout the life span.
- 533. PRIORITIZING AND MAPPING THE CURRICULUM. 3 cr.** Development and function of elementary school curricular patterns. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 541. TRENDS IN CURRENT AND EMERGING ELEMENTARY SCHOOLS. 3 cr.** Contemporary problems and pertinent research in elementary education. Intensive reading and writing in areas of interest and need.

GRADUATE COURSES 121

- 543. LITERACY THROUGH LITERATURE-BASED INSTRUCTION. 3 cr.** This course will develop an understanding of using literature as a basis for teaching content subjects at the elementary level. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 545. EDUCATIONAL TECHNIQUES FOR EXCEPTIONAL CHILDREN IN REGULAR CLASSROOMS. 3 cr.** Analysis of the instructional needs of exceptional children and the application of instructional strategies and curricular modifications within regular classroom. A. Elementary; B. Secondary. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator. (Same as Special Education 545).
- 546. COGNITIVE LEARNING: CHILDREN AND THEIR WORLD. 3 cr.** This course is designed provide candidates with standards-based teaching and learning experiences that emphasize cognitive learning within the context of family, community, and collegial collaborative aspects associated with teaching. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 591. DIRECTED STUDY. 1-6 cr.** Investigative study in selected problems for advanced graduate students.
- 599. THESIS OR FIELD STUDY. 1-6 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.
- 603. SEMINAR IN ELEMENTARY EDUCATION. 3 cr. Maximum, 9 cr.** Seminars designed to meet the need of advanced graduate students. A. Classroom Application of Commercial and Teacher Made Materials; B. Leadership and Communication Skills; C. Content Methodologies; D. Trends and Issues in Early Childhood Education; E. Selected Topics
- 683. INTERNSHIP IN ELEMENTARY/EARLY CHILDHOOD EDUCATION. 3-6 cr.** Supervised experience in instruction, supervision, or administration in public schools or higher education. Prerequisite: Approval of Director of Field Experiences. Must meet all other eligibility requirements for Louisiana Teaching Certificate in field of study to earn graduate credit and grade.

ENGLISH (ENGL)

For Undergraduates and Graduates

- 405. ENGLISH NOVEL TO 1800. 3 cr.** Critical analysis of major novels and study of origin and development.
- 406. NINETEENTH CENTURY ENGLISH NOVEL. 3 cr.** Critical analysis of major novels and study of changes in aim and technique.
- 407. TWENTIETH CENTURY ENGLISH NOVEL. 3 cr.** Critical analysis of major novels and study of changes in aim and technique.
- 409. MODERN POETRY. 3 cr.** Analysis of structure, form, and content of significant works of selected twentieth-century British and American poets.
- 410. MODERN DRAMA. 3 cr.** Selected contemporary English, continental, and American dramas.
- 413. AMERICAN NOVEL. 3 cr.** Critical analysis of major novels and study of the context.
- 416. MODERN EUROPEAN FICTION. 3 cr.** Selected English works, as well as continental novels that have been translated into English. (Formerly Modern European Novel.)
- 421. THE LITERATURE OF THE BIBLE. 3 cr.** Selected books from the Old and New Testaments, with emphasis on their literary value and influence on English and American literature.
- 425. LITERARY CRITICISM. 3 cr.** Major aesthetic theories related to exercises in practical criticism.
- 426. MULTICULTURAL LITERATURE. 3 cr.** Introduction to the multicultural literature of the world.
- 427. LITERATURE OF THE SOUTH. 3 cr.** Representative writers of the myth and reality of "The South."
- 436. CHAUCER. 3 cr.** Studies in *The Canterbury Tales* and other selected works of Geoffrey Chaucer.
- 437. SHAKESPEARE'S TRAGEDIES. 3 cr.** Representative tragedies, with emphasis on principles governing the genre.
- 438. SHAKESPEARE'S COMEDIES AND HISTORIES. 3 cr.** Representative comedies and histories, with emphasis on Shakespeare's development as a dramatic artist.
- 439. MILTON. 3 cr.** The major poems and selected prose and minor poetry.
- 444. WRITING IN THE SCIENCES. 3 cr.** A composition course that focuses on writing professional documents (abstracts, proposals, research) in the various science disciplines and developing professional presentations for the scientific community. Emphasis on rhetorical strategies and the conventions of scientific discourse. Prerequisite: One of the following: 320 (Formerly ENGL 220A), 321 (Formerly ENGL 220A), 322 (Formerly ENGL 220B), or 323 (Formerly ENGL 220C) or consent of department head.

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- 471. MEDIEVAL LITERATURE. 3 cr.** Selected English or European works before 1500, excluding Chaucer.
- 472. RENAISSANCE. 3 cr.** Non-dramatic poetry and prose of the Tudor Period.
- 473. SEVENTEENTH CENTURY. 3 cr.** Development of English prose and poetry from the beginning of the Jacobean Age through the Restoration.
- 474. EIGHTEENTH CENTURY. 3 cr.** Major English writers of the Augustan and Johnsonian periods.
- 475. ROMANTIC MOVEMENT. 3 cr.** Representative writers and works of the Romantic period.
- 476. VICTORIAN PERIOD. 3 cr.** Representative writers and works of the British Victorian era.
- 478. AMERICAN LITERARY MASTERS. 3 cr.** Works of major writers to 1850.
- 479. AMERICAN LITERARY MASTERS. 3 cr.** Works of major writers from 1850 to the present.
- 481. EXPOSITORY WRITING. 3 cr.** Development of the ability to communicate accurately and effectively in writing, with emphasis on the teaching of writing in all disciplines.
- 482. LINGUISTICS. 3 cr.** An introduction to theories and analysis of language structure and use.
- 483. HISTORY OF THE ENGLISH LANGUAGE. 3 cr.** The origins and development of the English language, including evolution of syntax, accretion of vocabulary, and study of pronunciation in England and the United States.
- 490. ADVANCED POETRY WRITING. 3 cr.** The writing of poetry, with emphasis on voice, style, and vision.
- 491. ADVANCED FICTION WRITING. 3 cr.** The writing of fiction, with emphasis on voice, style, and fictive worlds.

For Graduates Only

- 504. STUDIES IN SHAKESPEARE. 3 cr.** Selected plays and related problems.
- 505. ELIZABETHAN AND JACOBAN DRAMA. 3 cr.** English drama, exclusive of Shakespeare, from the beginning of the Elizabethan Age to the closing of the theaters.
- 506. DRAMA OF THE RESTORATION AND EIGHTEENTH CENTURY. 3 cr.** Representative plays with some examination of critical and historical problems.
- 507. ENGLISH LITERATURE BEFORE 1800. 3 cr. Maximum, 6 cr.** Selected British authors before 1800. Subject matter varies. May be repeated for credit.
- 508. ENGLISH LITERATURE FROM 1800 TO THE PRESENT. 3 cr. Maximum, 6 cr.** Selected British authors from 1800 to the present. Subject matter varies. May be repeated for credit.
- 514. BIBLIOGRAPHY. 3 cr.** Survey of bibliography and literary research.
- 515. GRAMMAR FOR TEACHERS. 3 cr.** Analysis of the structures of written English. Includes study of traditional grammar, with some attention to transformational and structural grammar.
- 516. COMPOSITION FOR TEACHERS. 3 cr.** Study of and practice in the traditional rhetorical modes of composition. Includes analysis and evaluation of recent research in composition.
- 519. PRACTICUM IN COLLEGE COMPOSITION. 3 cr.** Supervised teaching of composition.
- 521. WRITING PROJECT SEMINAR FOR TEACHERS. 3 cr.** Research in and practice of the teaching of writing for teachers.
- 522. SPECIAL TOPICS IN ENGLISH. 3 cr.** Training in Advanced Placement English certification.
- 526. COMPRESSED VIDEO SEMINAR. 3 cr. Maximum, 9 cr.** Graduate courses with variable content offered each semester through the Collaborative Agreement.
- 527. AMERICAN PROSE. 3 cr. Maximum, 6 cr.** Selected American authors. Subject matter varies. May be repeated for credit.
- 528. AMERICAN POETRY. 3 cr. Maximum, 6 cr.** Selected American authors. Subject matter varies. May be repeated for credit.
- 530. POETRY WRITING SEMINAR. 3 cr. Maximum, 6 cr.** A workshop in writing poetry emphasizing the control of language and line, the art of revising, and the shaping of a manuscript.
- 531. FICTION WRITING SEMINAR. 3 cr. Maximum, 6 cr.** A workshop in writing fiction, emphasizing the control of style, point of view, and character development, while attending to the art of revision and the shaping of a whole work.
- 532. SPECIAL TOPICS: FORMS AND THEORIES OF CREATIVE WRITING. 3 cr. Maximum, 6 cr.** A seminar in the works and aesthetics of modern and contemporary writers, both poets and fiction writers. May be repeated for credit.
- 533. CREATIVE WRITING FOR TEACHERS. 3 cr.** A seminar in theories of the creative process and in the teaching of creative writing.
- 540. THE RHETORIC OF SCIENTIFIC AND TECHNICAL DISCOURSE. 3 cr.** An examination of the primary modes of scientific discourse, the theories behind those modes, and the evolution of those modes into modern forms of technical discourse.

GRADUATE COURSES 123

- 550. ADVANCED LITERARY THEORY. 3 cr.** Advanced study of literary theory in an interdisciplinary perspective. Subject matter varies.
- 551. ADVANCED MULTICULTURAL LITERATURE. 3 cr.** Advanced study of the multicultural literature of the world through theoretical and close textual analysis of the literature of a specific culture. Subject matter varies.
- 591. DIRECTED RESEARCH. 3-6 cr.** Individual study of topics under the direction of a senior faculty member. Prerequisites: 21 graduate hours of English and approval of the student's adviser and of the department head.
- 599. THESIS. 1-6 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.

**ENTREPRENEURSHIP
(ENTR)****For Undergraduates and Graduates**

- 432. NEW VENTURE CREATION. 3 cr.** Developing, planning, and running new enterprises. Analysis and pursuit of new business opportunities and development of business plans. Prerequisite: 250 and senior standing; or consent of instructor. (Formerly MGMT 332.) F
- 433. ENTERPRISE MANAGEMENT. 3 cr.** Students will study the application of management concepts to new and growing ventures. Analysis of organizational design, planning, implementation, and control of enterprises; social and ethical considerations in managing enterprises; and production, decision making, and behavior factors in new and growing venture management. Prerequisite: Junior/senior standing or consent of Instructor. (Formerly MGMT 330). F, Sp

**EXERCISE SCIENCE
(EXSC)****For Graduates Only**

- 504. ADVANCED PHYSIOLOGY OF EXERCISE I. 3 cr.** Exercise physiology and its application to physical conditioning with emphasis on energy metabolism, nutrition, body composition and ergogenic aids. Prerequisite: Kinesiology 437 or Approval of Department of Head.
- 505. ADVANCED PHYSIOLOGY OF EXERCISE II. 3 cr.** Exercise physiology and its application to physical conditioning and training with emphasis on the pulmonary system, cardiovascular system, endocrine system, muscular system, aging, and environmental stress. Prerequisite: Kinesiology 437 or Approval of Department Head.
- 507. RESEARCH METHODS IN EXERCISE SCIENCE. 3 cr.** Study of principal research methods, significant existing research; and application of research principles to exercise science.
- 510. EXERCISE PRESCRIPTION AND LEADERSHIP. 3 cr.** A concentrated study of various theories, procedures, and techniques of exercise testing and leadership. Prerequisites: Kinesiology 437 or Approval of Department Head.
- 512. EXERCISE ELECTROCARDIOGRAPHY. 3 cr.** This course is designed to examine the theory and practice of electrocardiography with emphasis placed on ECG's administered during exercise tests. Prerequisite: Zoology 205 or equivalent.
- 524. EXERCISE SCIENCE PERSPECTIVES FOR SPECIAL POPULATIONS. 3 cr.** An examination of specialized exercise science considerations among various groups, with emphasis given to the elderly, females, children, and other unique populations.
- 527. MEASUREMENT AND EVALUATION. 3 cr.** Analysis of existing measurements and norms with emphasis on test construction and evaluation. The course will include the use of computer statistical analysis program (SPSS) on how to enter data, choose an appropriate statistical tool, and then interpret the results.
- 530. ADVANCED ANATOMICAL KINESIOLOGY. 3 cr.** Detailed investigation of the anatomical and biomechanical systems responsible for human movement.
- 538. CARDIOVASCULAR PHYSIOLOGY. 3 cr.** A comprehensive study of the heart and circulatory systems with particular emphasis placed on both normal and abnormal physiological responses of the cardiovascular system to exercise. Prerequisite: Kinesiology 437 or equivalent.
- 539. CARDIAC REHABILITATION. 3 cr.** An examination of the concepts leading to design, implementation, and maintenance of cardiac rehabilitation programs. Emphasis is placed on the exercise component of cardiac rehabilitation programs, with attention also given to lifestyle and psychological interventions. Prerequisite: 538 or equivalent.
- 591. DIRECTED STUDY. 3 cr. Maximum, 6 cr.** Study and/or research of A. Sports Medicine; B. Health; C. Selected topics. Prerequisites: Approval of Department Head and Major Professor.

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595. PROFESSIONAL INTERNSHIP (EXERCISE SCIENCE). 3-6 cr. On site clinical training for exercise science majors.

599. THESIS. 3-6 cr. Grades of CR (Credit) or NC (No Credit) will be awarded.

FAMILY AND CONSUMER SCIENCES (FCSC)

(Formerly Home Economics)

For Undergraduates and Graduates

412. ADVANCED NUTRITION. 3 cr. Problems in human nutrition. Investigation of recent developments in the field of nutrition.

415. PROBLEMS. 1-6 cr. Maximum, 6 cr. Problems in A. Clothing and Textiles; B. Equipment and Home Management; C. Family Relations and Human Development; D. Foods and Nutrition; E. Family and Consumer Sciences Education; and F. Housing and Home Furnishings. Prerequisite: Approval of Department head.

417. FASHION MERCHANDISING PRACTICUM. 1-6 cr. Maximum, 6 cr. for undergraduates; Maximum, 3 cr. for graduates. An in-depth experience planned and supervised to meet individual needs of students. Includes work experience and/or field study. Prerequisites: Senior standing; 329.

422. HISTORY OF COSTUME. 3 cr. Styles of costumes in western civilization from ancient times to the present day; cultural and economic factors associated with the development, adoption, and decadence of styles.

431. PARENTING: FATHERS, MOTHERS, AND CHILDREN. 3 cr. Practical knowledge of parenting roles. Interrelationships of fathers, mothers, and children. Current issues in parenting, including bonding, discipline, child care, family crises, support systems and non-traditional parent situations. Parents and children in historical and contemporary perspectives.

435. HOUSING THE ELDERLY. 3 cr. Examination and application of the guidelines, issues and choices associated with housing disruption and relocation of the elderly. (Same as Gerontology 435.)

436. NUTRITION AND AGING. 3 cr. Application of concepts of nutrition directed toward improving nutritional status and health. Federal, state and community programs will be discussed. (Same as Gerontology 436.)

439. MENTORING CHILDREN. 3-6 cr. Hands-on experience in working with children and families, research, intervention strategies, communication skills, planning activities and implementing mentoring programs. Open to majors and non-majors.

For Graduates Only

501. INNOVATIONS IN FAMILY AND CONSUMER SCIENCES. 1-6 cr. Maximum, 6 cr. Investigations and analysis of curricula and research and its application to current issues, trends, and technologies in the content areas of family and consumer sciences as it relates to concerns of the family, home, and society. (Formerly Innovations in Home Economics.)

502. SUPERVISION OF STUDENT TEACHING IN VOCATIONAL FAMILY AND CONSUMER SCIENCES. 3 cr. Problems involved in the preparation of family and consumer sciences teachers with emphasis upon the provision of learning experiences for student teachers. (Formerly Home Economics Education 502 - Supervision of Student Teaching in Vocational Home Economics.)

503. FAMILY AND CONSUMER SCIENCES RELATED OCCUPATIONS. 1-6 cr. Maximum, 6 cr. A. Clothing and Textiles, B. Foods and Nutrition, C. Family Relationships and Child Development, D. Related Services, E. Organization and Administration. Program development including needs assessment, planning, student recruitment, facilities, and instructional programs in the content areas of vocational home economics. Organization and administration of home economics related occupational programs. Experience with selected work stations, employee relationships, counseling, and other practical aspects of the world of work. (Formerly Home Economics Education 503 - Home Economics Related Occupations.)

591. DIRECTED STUDY. 1-6 cr. Maximum, 6 cr. Directed study in A. Clothing and Textiles; B. Equipment and Home Management; C. Family Relations and Child Development; D. Foods and Nutrition; E. Family and Consumer Sciences Education; and F. Housing and Home Furnishings. Prerequisite: Approval of department head.

GRADUATE COURSES 125**FINANCE
(FINA)****For Undergraduates and Graduates**

- 404. INTERNATIONAL FINANCE. 3 cr.** Theory and analysis of international monetary flows, sources of capital, exchange rates, money markets and international banking institutions with emphasis on financing the firm operating in international markets. Prerequisite: 315.
- 406. FUTURES AND OPTIONS CONTRACTS. 3 cr.** A seminar introducing the principles of valuation of futures and options instruments, contract design, hedging and speculative use. Emphasis on financial futures contracts and common stock put and call options. Prerequisites: 315 and Quantitative Methods 210.

For Graduates Only

- 503. INVESTMENT THEORY. 3 cr.** A study of the theory of investment analysis. The supporting body of empirical research will be studied and current research techniques will be employed. Prerequisite: 315.
- 505. SEMINAR IN FINANCIAL MANAGEMENT. 3 cr.** Seminar in specific topics emphasizing contemporary financial management issues. Prerequisite: 315.
- 591. DIRECTED STUDY. 3 cr.** Individual study of advanced finance topics under the direction of a senior faculty member. Prerequisites: Twelve semester hours of BMBA courses and a minimum graduate GPA of 3.5.

**FRENCH
(FRNH)****For Undergraduates and Graduates**

- 403. LITERATURE OF THE FRANCOPHONE WORLD. 3 cr. Maximum, 6 cr.** An in-depth analysis of the work of writers from the Francophone world. Prerequisite: 202 or 205.
- 404. SEMINAR IN FRENCH LITERATURE. 3 cr. Maximum, 6 cr.** An in-depth analysis of a literary movement or writers of French literature. Prerequisite: 202 Or 205 or the equivalent.
- 415. ADVANCED LANGUAGE DEVELOPMENT. 3-12 cr.** Advanced language instruction with emphasis on French grammar and civilization including French history, history of art, cinema, geography, and literature. All classes are taught in French. Prerequisite: 205 or permission of the department head.
- 474. SECOND LANGUAGE ACQUISITION. 3 cr.** The application of second language acquisition theory in the classroom.
- 475. LANGUAGE, CULTURE, & CLASSROOM. 3 cr.** The application of second language acquisition theory in the elementary or secondary classroom (same as Spanish 475). Prerequisite: French 474.

For Graduates Only

- 501. LINGUISTICS—PROBLEMS IN PHONOLOGY AND MORPHOLOGY. 3 cr.** Phonological and morphological structure of modern French. Special reference to morphophonemic processes. Prerequisite: 312 or equivalent or permission of department head.
- 502. LINGUISTICS—PROBLEMS IN GRAMMAR AND SYNTAX. 3 cr.** Syntactic and semantic structure of modern standard French. Special reference to: native language transference and interference, competence and performance, and style.

**GEOGRAPHY
(GEOG)****For Undergraduates and Graduates**

- 401. NORTH AMERICA. 3 cr.** A regional study, with attention to the influence of climate, topography, and natural resources on industry and trade.
- 403. LATIN AMERICA. 3 cr.** A regional study of the configuration, climates, natural resources, cultural patterns, and peoples.

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- 405. AFRICA. 3 cr.** The geographical features, with particular reference to economic, social and political developments; a study of the heritage and background, physical and cultural, of the present-day African-American culture.
- 407. EUROPE. 3 cr.** General distribution of natural and cultural features with detailed study of selected areas.
- 409. ASIA. 3 cr.** A survey of the physical environment of the continent as a whole, followed by a detailed study of China, India, and Japan.
- 411. THE ARCHEOLOGY OF NORTH AMERICA. 3 cr.** The archeological background of North America from Mexico to the Arctic Circle; progressive states of development of prehistoric North American cultures. (Same as Anthropology 411.)
- 412. FORMER SOVIET UNION. 3 cr.** Physical and cultural environments, with special emphasis on climates, resources, industrializations, and population distribution.
- 414. THE INDIANS OF NORTH AMERICA. 3 cr.** Survey of the distribution and principal regional lifeways of North American Indian groups prior to disruption, dispersal, and the implementation of the reservation system. (Same as Anthropology 414.)
- 415. POLITICAL GEOGRAPHY. 3 cr.** Problems in production, trade, government, and world development growing out of geographic conditions. Prerequisites: 101, 102.
- 418. URBAN. 3 cr.** A geographic approach to the study of urban areas stressing location, historical development, distribution, size, growth and function; emphasis on current urban problems. Prerequisites: 101, 102.
- 420. LATIN AMERICAN FIELD COURSE. 3 cr.** Supervised geographic research and observation in a Latin American setting. Local examples illustrate broad themes in the historical shaping of the Latin American landscape. The course introductory meetings at ULM followed by field observation and discussion in a Latin American location. Prerequisite: 403 or Permission of the Instructor.
- 421. THE ARCHEOLOGY OF MEXICO. 3 cr.** An in-depth view of the development of pre-Hispanic Mexican and Meso-American cultures and civilizations from Paleo-Indian times to the Spanish Conquest; an overview of the major archeological sites pertinent to these cultures. (Same as Anthropology 421.)
- 423. ARCHEOLOGICAL FIELD TECHNIQUES. 6 cr.** A field course introducing the basic techniques of archeological mapping, excavation, cataloging, specimen preparation and preservation. A study of soils, physical stratigraphy, synecology, and techniques of artifact laboratory analysis. May be repeated once for a maximum of 12 hours credit. (Same as Anthropology 423.)

For Graduates Only

- 501. DEVELOPMENT OF GEOGRAPHIC THOUGHT. 3 cr.** Familiarization with leading geographers of the ancient world and those of the United States, United Kingdom, Germany, and France, at the present and in the recent past.
- 502. SPECIAL TOPICS. 3 cr. Maximum, 9 cr.** Topics not covered in regularly scheduled courses. Arrangements must be made with the appropriate staff member and the approval of the geography adviser must be obtained before registration. Topics: A. Settlement Geography; B. Historical Geography; C. Advanced Regional Geography.

GEOLOGY (GEOL)

For Undergraduates and Graduates

- 401. GULF COAST. 3 cr.** The physiography, stratigraphy, structure, economics and origin of the Gulf Coastal province. Prerequisites: 303, 309, 323.
- 402. PLATE TECTONICS. 3 cr.** A thorough treatment of the underlying processes driving the processes active in the solid earth, and how these processes affect modern interpretations of the geologic record. Prerequisites: 303, 309, 327, and Geosciences 330.
- 403. PETROLEUM. 3 cr.** The origin, geologic distribution, and accumulation of petroleum. Prerequisites: 303, 323.
- 405. ECONOMIC GEOLOGY—METALS. 3 cr.** The origin and distribution of metallic ores. Prerequisites: 215, 217.

GRADUATE COURSES 127

- 406. ECONOMIC GEOLOGY—NON-METALS. 3 cr.** The origin, distribution, geology, and use of non-metallic ores with emphasis on Louisiana's economic minerals. Prerequisites: 215, 217.
- 407. SUBSURFACE. 2 cr.** Study and application of subsurface methods. Prerequisites: 303, 323.
- 408. SUBSURFACE LABORATORY. 2 cr.** Six hours laboratory to accompany 407.
- 410. GEOCHEMISTRY. 3 cr.** Basic principles governing the origin, distribution, and migration of elements in the earth. Prerequisites: 215, 217.
- 413. PHYSICAL MARINE. 3 cr.** A general introduction to the physical processes at work on the shores of the Mississippi Sound, with emphasis on the erosional and depositional effects of waves and currents at various tidal stages. Conducted each summer under the direction of the staff of the Gulf Coast Marine Laboratory at Ocean Springs, Mississippi. Prerequisites: 327, 329, or Approval of Department Head.
- 414. CHEMICAL MARINE. 3 cr.** Supervised research in the chemistry of the water of the Mississippi Sound and the geochemistry of the bottoms beneath these waters. Conducted each summer under the direction of the staff of the Gulf Coast Marine Laboratory at Ocean Springs, Mississippi. Prerequisites: 327, 329, and Chemistry 108, 111, 203, 204, or Approval of Department Head.
- 415. VERTEBRATE PALEONTOLOGY. 2 cr.** A survey of the vertebrates through geologic time with special emphasis on morphology, function, evolution, time and spatial distribution. Prerequisites: 102, 104, and/or Zoology 101, 103.
- 417. GROUND-WATER GEOLOGY. 3 cr.** An introduction to water beneath the surface of the earth. Emphasis is given to the mode of occurrence, migration and relationship to enclosing rock masses. Prerequisites: 101, 102.
- 418. PLANETARY GEOLOGY. 3 cr.** A survey of the geologic processes operating on the solid surface planetary bodies. Comparative geologic histories of the terrestrial planets and major satellites. Prerequisite: 303.
- 419. MICROPALAEONTOLOGY. 1 cr.** Study of microfossils, their classification, morphology, environmental significance and use in correlation. Prerequisites: 211, 213, and/or Zoology 101, 103.
- 423. X-RAY AND OPTICAL MINERAL ANALYSIS. 2 cr.** Principles and techniques of mineral identification and analysis using the x-ray diffractometer and petrographic microscope. Prerequisites: 215, 217.
- 424. X-RAY AND OPTICAL MINERAL ANALYSIS LABORATORY. 2 cr.** Six hours laboratory to accompany 423.
- 425. SEDIMENTATION. 2 cr.** The genesis, transportation, deposition, and classification of sediments; tectonic and environmental factors influencing deposition and sedimentary structure. Prerequisites: 211, 213.
- 426. SEDIMENTATION LABORATORY. 1 cr.** Three hours laboratory to accompany 425.
- 429. MICROPALAEONTOLOGY LABORATORY. 2 cr.** Six hours laboratory to accompany 419.
- 430. COAL. 3 cr.** A study of the physical and chemical properties of the various ranks of coal, distribution, origin, microscopic analysis, utilization, evaluation, methods of extraction, and land reclamation. Prerequisites: 327, 329.

For Graduates Only

- 501. ADVANCED MICROPALAEONTOLOGY. 1 cr.** Systematic research into foraminifers or ostracodes, their ecology, stratigraphy, evolution and classification.
- 502. SPECIAL TOPICS. 1-6 cr. Maximum, 6 cr.** Topics not covered in regularly scheduled courses. Arrangement must be made with the appropriate staff member and the approval of the department head must be obtained before registration. Topics: A. Paleontology/Stratigraphy; B. Sedimentary/Geomorphology; C. Hydrology/Environmental Geology; D. Petrology/Geochemistry; E. Structural Geology/Tectonics; F. Planetary Geology.
- 507. ADVANCED PALEONTOLOGY (PALEOECOLOGY). 2 cr.** Principles of Paleoecology for marine to brackish water invertebrates. Prerequisite: 211.
- 509. ADVANCED SEDIMENTATION. 2 cr.** Analysis of the processes of physical sedimentation; introduction to the hydrodynamics of sediment transport. Principles of sedimentary basin analysis; models of sedimentary environments.

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- 511. ADVANCED STRATIGRAPHY. 3 cr.** A seminar devoted to oral presentations and discussions of typical stratigraphic problems and methodologies. A written report is also required.
- 513. IGNEOUS AND METAMORPHIC PETROLOGY. 2 cr.** The origin, composition, textures, occurrence, classification, and distribution of rocks.
- 515. ADVANCED VERTEBRATE PALEONTOLOGY. 2 cr.** Comparative osteology of the vertebrates, evolutionary trends, collection and preparation of fossil material, selected readings, and individual projects.
- 521. ADVANCED MICROPALAEONTOLOGY LABORATORY. 2 cr.** Six hours laboratory to accompany 501.
- 527. ADVANCED PALEONTOLOGY LABORATORY (PALEOECOLOGY). 1 cr.** Three hours laboratory to accompany 507.
- 529. ADVANCED SEDIMENTATION LABORATORY. 1 cr.** Three hours laboratory to accompany 509.
- 533. IGNEOUS AND METAMORPHIC PETROLOGY LABORATORY. 1 cr.** Three hours laboratory to accompany 513.
- 535. ADVANCED VERTEBRATE PALEONTOLOGY LABORATORY. 1 cr.** Three hours laboratory to accompany 515.
- 540. CLAY MINERALOGY. 2 cr.** Origin and occurrence of layer silicate minerals. Prerequisites: 423, 424.
- 542. CLAY MINERALOGY LABORATORY. 1 cr.** Three hours laboratory to accompany 540.
- 545. ADVANCED GROUNDWATER HYDROGEOLOGY. 3 cr.** Advanced study of the flow of water and contaminants in upper layers of the earth, including: physics of fluid flow through porous media; vadose zone; capillary fringe; fractured rock; multi-phase flow; diffusion of dissolved species; contaminant migration; numerical modelling. Prerequisite: 417.
- 551. PETROLOGY OF SANDSTONES. 2 cr.** Origin and interpretation of sandstone clans, with emphasis on thin-section description and deduction of source, environment, and diagenesis. Prerequisites: 423, 424, or Approval of Department Head.
- 552. PETROLOGY OF CARBONATES. 2 cr.** Origin and interpretation of carbonate clans, with emphasis on geochemistry, facies, thin-section description and diagenesis. Prerequisites: 423, 424, or Approval of Department Head.
- 553. SANDSTONE PETROLOGY LABORATORY. 1 cr.** Three hours laboratory to accompany 551.
- 554. CARBONATE PETROLOGY LABORATORY. 1 cr.** Three hours laboratory to accompany 552.

GEOSCIENCES (GEOS)

For Undergraduates and Graduates

- 402. PRINCIPLES OF EARTH SCIENCE. 3 cr.** Earth's place in the solar system; nature of material composing the earth; processes which have shaped and are shaping the earth; rocks, minerals, soils, topographic features and their origin; rock structures; topographic; geologic, and weather maps, and aerial photographs.
- 404. EARTH SCIENCE LABORATORY. 1 cr.** Two hours laboratory to accompany 402.
- 415. SOILS FOR THE ENVIRONMENTAL GEOSCIENTIST. 2 cr.** Fundamentals of pedology aimed at environmental geoscientists, including: soil terminology, soil genesis, the 7th Approximation soil classification system, the use of parish and county soil surveys, soil descriptions, soil toxicity, national and worldwide soil type distribution. Prerequisite: Geology 101 or Geography 213 or Permission of the Instructor.
- 416. SEMINAR. 1 cr. Maximum, 3 cr.** Presentation of oral and written reports on current geology literature and problems of special interest.
- 420. HUMAN IMPACT ON THE ENVIRONMENT. 3 cr.** This course will assess the environmental changes caused by human activity. Specifically, attention will be focused on human impacts on vegetation, animals, soil, hydrology, geomorphology, and climate. Prerequisite: Geography 213 or GEOS 330 or Permission of the Instructor.
- 430. SURFACE HYDROLOGY. 3 cr.** Fundamentals of surface hydrology including: components of the hydrologic cycle; hydrographs; flood frequency analysis; and flood routing through rivers,

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reservoirs, and watersheds. Includes practical exercises and the use of personal computers. Prerequisites: Geology 101 or Permission of the Instructor.

- 435. PRINCIPLES OF GEOGRAPHIC INFORMATION SYSTEMS (GIS). 3 cr.** Techniques for analyzing, displaying and managing geographic data topics including: structure of geographic data bases, principles of digital cartography, basic spatial statistics, and analysis of spatial relationships using GIS. Prerequisite: Junior or senior standing.
- 440. ENVIRONMENTAL EARTH SCIENCE. 3 cr.** A survey of the interactions between people and the physical environment, including hazardous earth processes, hydrology and pollution, waste disposal, environmental health, mineral resources, energy, and land use. Prerequisites: Any of the following Geosciences 101, 402, Geology 101, 206, Geography 213.
- 441. GEOENVIRONMENTAL SEMINAR. 1 cr. Maximum, 3 cr.** Geoenvironmental topics are examined in depth through library research, audiovisual materials analysis, and interactive software. Investigations are presented and critiqued during round table discussions. Assigned topics vary each semester. Prerequisite: Any pertinent basic science course or Permission of the Instructor.
- 445. ADVANCED GEOGRAPHIC INFORMATION SYSTEMS (GIS). 3 cr.** A project-oriented course intended to demonstrate how principles learned in Geosciences 435 can be applied to solving complex real-world problems. Prerequisite: Geosciences 435 or Permission of Instructor.
- 450. REMOTE SENSING OF THE ENVIRONMENT. 3 cr.** This course will cover the basics and the interpretation of remote sensing data that will include aerial photography, U.S. and French satellite imagery, thermal infrared, Sideways Looking Radar, Synthetic Aperture Radar, and other airborne platforms such as the Daedalus Multispectral Scanner used by NASA.
- 460. ARCHEOLOGY AND GEOLOGY OF NATURAL DISASTERS. 3 cr.** Case studies of the archeological and geologic evidence for the history, causes, and effects of historical and prehistoric natural disasters. Use of archeological and geologic data to develop realistic supportable scenarios for the natural disasters will be stressed. Prerequisites: Anthropology 201; Geology 101, 102.
- 491. RESEARCH. 1-6 cr. Maximum, 6 cr.** Research problems that can be completed in one semester. Three hours laboratory per week for each credit hour. A written proposal with a list of references must be submitted to and be approved by the supervising professor and department head. Results of work will be presented in a seminar. Prerequisites: Junior or senior standing in geosciences.

For Graduates Only

- 505. ADVANCED SURFACE WATER HYDROLOGY. 3 cr.** Advanced treatment of surface water drainage systems, with particular emphasis on urban watersheds. Will include numerical modeling of watershed drainage systems. Prerequisite: 430.
- 510. REGIONAL GEOMORPHOLOGY. 3 cr.** Evolution of landforms and surficial geologic systems within a specific region. Particular emphasis will be placed on processes active in the river and wetland systems, and development of characteristic landforms. A. Lower Mississippi River Valley; B. Gulf Coast Physiographic Province. Prerequisites: 330-331, Geology 417, 425-426.
- 591. DIRECTED STUDY. 1-6 cr. Maximum, 6 cr.** Investigative advanced study and selected problems in: A. Advanced Urban Geography; B. Archeological Analysis; C. Paleoclimatology; D. Paleoeological Analysis; E. Metamorphic Petrography; F. Sedimentary Petrography. A written proposal with a list of references must be submitted to and be approved by the supervising professor and department head. Results of work will be presented in a seminar.
- 599. THESIS. 1-6 cr.** A written proposal with a list of references must be submitted to and be approved by the supervising professor and department head. Results of work will be presented in a seminar. Grades of CR (Credit) or NC (No Credit) will be awarded.

**GERONTOLOGY
(GERO)****For Undergraduates and Graduates**

- 410. ECONOMICS OF AGING. 3 cr.** An examination of issues related to the economic status of persons as they grow older. Attention will be given to problems and policies which relate to income maintenance, planned and unplanned expenditures, inflation, reduced income, post-retirement employment, public and private pensions, health insurance, pre-retirement counseling and legislative reforms. (Formerly Economics 510, Same as Economics 410.)

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- 411. SOCIAL WORK PRACTICE WITH THE ELDERLY. 3 cr.** An introduction to the social, economic, and psychological dimensions of aging using a person-in-environment approach. (Same as SOCW 411).
- 424. WOMEN AND AGING. 3 cr.** Examines the life experiences of women as they age. Emphasis is on sociological influences on perceptions of aging among women and on aging women's roles in society. (Same as Sociology 424.)
- 425. SEMINAR IN DEATH AND DYING. 3 cr.** Exploration of the social organization of dying, including a view on cross-cultural perspectives on death, treatment of the dying patient, and the grief process. (Same as Sociology 425.)
- 427. FIELD WORK IN GERONTOLOGY. 1-3 cr.** Student placement in a senior center, social service agency, nursing home, or hospital for nine hours per week. Students already employed in an agency will take Sociology 428. Prerequisite: Approval of Department Head. (Formerly Sociology 427.)
- 428. DIRECTED RESEARCH IN GERONTOLOGY. 1-3 cr.** Individual examination of a relevant problem in Gerontology as approved and directed by student's major professor. Prerequisite: Approval of Department Head. (Formerly Sociology 428.)
- 430. ELDER ABUSE. 3 cr.** An examination of the definition, causes, and theories associated with the problem of elder abuse. Relevant research regarding the historical perspectives, recognition of abuse, assessment techniques, and interventions will be presented.
- 431. ELDER LAW. 3 cr.** An examination of legal challenges older Americans are facing as they plan their later years and seek to maximize their quality of life. These challenges include age discrimination in employment, housing alternatives and options, financial management and planning, medical needs and attention, and consent, and long-term care.
- 435. HOUSING THE ELDERLY. 3 cr.** Examination and application of the guidelines, issues and choices associated with housing disruption and relocation of the elderly. (Same as Family and Consumer Sciences 435. Formerly Gerontology 503 and Sociology 503, Gerontological Housing and Aging.)
- 436. NUTRITION AND AGING. 3 cr.** Application of concepts of nutrition directed toward improving nutritional status and health. Federal, state and community programs will be discussed. (Same as Family and Consumer Sciences 436.)
- 452. QUALITATIVE RESEARCH. 3 cr.** Examines the conceptualization; selection and protection of participants; data collection, analysis, and presentation; ethical issues; and strengths and weaknesses of qualitative research. (Same as SOCL 452)

For Graduates Only

- 502. LIFESTYLES ISSUES AND RESOURCE MANAGEMENT IN AGING. 3 cr.** A sociological investigation into leisure activities among the aged, issues in pre-retirement and retirement, managing resources, holistic health and lifestyle changes, nutrition, and stress reduction. (Same as Sociology 502.)
- 510. BIOLOGY OF AGING. 3 cr.** A review of the fundamental aspects of biological aging; age-related anatomical and physiological changes displayed by humans and other mammals at the molecular, cellular, and organismic levels. (Same as Biology 510.)
- 512. SOCIAL GERONTOLOGY. 3 cr.** An examination of social aspects of adjustment to aging, attitudes toward aging, social-psychological and sociological theories of aging, successful aging, family patterns, intergenerational relationships, leisure, and retirement. Attention will be given to demographic changes, middle age, minority aged, and adult socialization. (Same as Sociology 512. Formerly Sociology 510 - Sociology of Aging.)
- 515. MINORITY AGING. 3 cr.** This course will examine the current state of gerontological knowledge about each of the federally designated minority group populations: African Americans, American Indians, Asian/Pacific Islanders, and Hispanics. Each student will have the opportunity to explore the state of knowledge about a particular group or a research issue across populations. Prerequisite: Permission of Instructor.
- 520. MINORITY HEALTH AND AGING. 3 cr.** An examination of ethnic and cultural variations in physical and mental health status among minority aged individuals. Topics include morality, morbidity, social and environmental influences on health status, individual risk factors, functional impairment, and the relation of these issues to the use of health care services.
- 526. COMMUNICATION IN GERONTOLOGY. 3 cr.** The study of communication processes among gerontological professionals, staff, patients, healthcare providers and administrators. Emphasis

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on research strategies and practical learning experiences as tools for facilitating interaction. (Same as Communication Studies 526.)

- 540. ASSESSMENT AND CASE-MANAGEMENT. 3 cr.** An investigation of these techniques in different healthcare and social program settings. Details are given on the social significance of human resources and skill building for conducting assessment and case management of senior clients for achievement of goals. Prerequisite: Permission of Department Head.
- 545. ETHNIC AND CULTURAL VARIATIONS IN SERVICE DELIVERY. 3 cr.** An examination of ethnic and cultural factors influencing the planning and delivery of health and social services to the aged and handicapped. Topics include important service delivery issues such as estimating service needs; theoretical models of service utilization; barriers, outreach and targeting; diverse cultural values, culturally appropriate service modalities; and impact of cultural values on planning, policy, and practice.
- 565. COMMUNITY-BASED AND LONG-TERM CARE. 3 cr.** A review of the various types of community based care with attention to the types of environments and services offered, the process of entry into care systems, physical and socio-emotional care, relations between residents and staff members, and social relationships inside and outside of care facilities. Health and quality of care, medical ethics, environmental health, and the delivery of services are addressed. (Same as Sociology 565. Formerly Introduction to Long-Term Care.)
- 566. CAREGIVING. 3 cr.** This seminar will take a comprehensive look at what is known about informal, family caregiving in the U.S. Assignments will identify who assumes care, the types of problems caregivers confront, caregiving tasks, caregiver appraisal of the situation, caregiver burden, and the psychological, social, work, and health consequences of caregiving. Attitudes towards and use of services will also be addressed. To the extent possible, the seminar will cover what is known about caregiving in each of the major populations: African American, American Indian, Asian & Pacific Islander, Latino, and non-Hispanic whites.
- 567. PROGRAMS AND PUBLIC POLICY. 3 cr.** Analysis of the Older American's Act, national and state programs on aging, and other legislative/congressional acts: their effects on research, training, and grant development in the field of gerontology. (Same as Sociology 567. Formerly Analysis of Programs and Practice in the Aging Network.)
- 568. PROGRAMS AND SERVICES IN GERONTOLOGY. 3 cr.** An examination of legislation that provides the foundation for the aging network, the programs and services available, and the theories that help predict service use by elders. Relevant research regarding social context of community resource delivery, community, support, and long-term care services, and the future of programs and services for the older adult will be presented.
- 575. RESEARCH IN GERONTOLOGY. 3 cr.** Integration and application of research designs used in gerontology; examines the impact of research on programs, policy, and planning; attention given to grant writing for research support. Prerequisite: Undergraduate methods course or approval of gerontology graduate coordinator. (Same as Sociology 575.)
- 580. TOPICS IN GERONTOLOGY. 3 cr.** In depth analysis and discussion of significant contemporary issues in aging. Will cover state-of-the question issues on timely topics in gerontology. May be repeated for credit as topics vary up to a maximum of nine hours. Prerequisite: Approval of Instructor.
- 585. THEORIES OF AGING. 3 cr.** An intensive analysis of the theories of aging that have been advanced by researchers in the social and behavioral sciences from 1950 to the present. Classic statements and formulations are complimented by more recent theoretical discussions and empirical tests of each theory. Prerequisite: Permission of instructor.
- 587. LONG-TERM CARE ADMINISTRATION I. 3 cr.** An overview of the departments and their functions, personnel issues, fiscal resources, ethics, facility maintenance, nutrition, and medical/social service terminology, and relations with families, volunteers, and residents.
- 588. LONG-TERM CARE ADMINISTRATION II. 3 cr.** In-depth examination of Federal, state, and local regulatory agencies, their mandated policies and procedures, and enforcement. Prerequisite: Gerontology 587.
- 590. INTERNSHIP IN GERONTOLOGY. 3-6 cr.** A field experience for those graduate students interested in research experience or applied aspects of gerontology. Students will be assigned to a program involving research activities, service provision, or administration of programs related to the aging and aged populations. Prerequisite: Consent of Instructor. (Formerly Sociology 590.)
- 599. THESIS. 1-6 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.

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HISTORY (HIST)

For Undergraduates and Graduates

- 408. CONTEMPORARY HISTORY. 3 cr.** A survey of the major developments in the world over the last few decades. This course will concentrate on the problems and developments of the Gulf War, the computer revolution, the former Soviet Union and the end of the Cold War, the rise of communist China, the former Yugoslavia, majority rule in South Africa, nuclear proliferation in the Cold War and after, and the Arab-Israeli dispute. Prerequisites: HIST 112 or 202 or consent of instructor.
- 420. THE HOLOCAUST. 3 cr.** This course will confront the background, events, and consequences of the extermination of European Jews during World War II. Prerequisites: HIST 201 or 202 or consent of instructor.
- 430. WORLD WAR II. 3cr.** An examination of the causes, conduct, and immediate aftermath, of World War II giving attention to major military campaigns and experiences of war as seen by military leaders and combatants in Asia, Europe, and the Pacific. Prerequisite: HIST 112.
- 436. AMERICAN CIVIL WAR. 3 cr.** The growing sectional conflict between the industrial North and the agrarian South; secession; major wartime problems of the Union and the Confederacy; principal military campaigns in the War's various theaters; the significance of the Civil War in American History. Prerequisite: 201.
- 437. RECONSTRUCTION AND THE NEW SOUTH, 1865-1939. 3 cr.** Reconstruction represented a larger change in the nation's than the Civil War as the South experienced its evolving stages, but more particularly, dealing with new relationships between the races. Efforts to revive agriculture and industry; the development of politics, education, religion, society, and culture from the post-bellum period through the Depression and the New Deal. Prerequisite: 202.
- 439. THE SOUTH, WORLD WAR II TO THE PRESENT. 3 cr.** World War II proved to be a significant watershed in the South. Emphasis will be placed on its industrialization, agricultural mechanization, and, especially the Second Reconstruction in Civil Rights, as well as its political, economic, religious, social, and cultural development. The South as a section will be placed in its proper perspective within the national experience. Prerequisite: 202.
- 446. U.S. MILITARY HISTORY, 1775-1865. 3 cr.** This course examines the development of the U.S. Military and the wars it fought from the American Revolution through the Civil War.
- 447. U.S. MILITARY HISTORY, 1865-present. 3 cr.** This course examines the development of the U.S. Military and the wars it fought from the end of the Civil War to the present.
- 449. NATIVE AMERICAN HISTORY. 3 cr.** This course offers an overview of Native American history from pre-Columbian times to the present. Topics include Native American culture, interaction with Europeans, and relations with the US government. Prerequisites: History 201 or 202.
- 450. AMERICAN COLONIAL. 3 cr.** A social history class which will concentrate on four main communities established in North America: New England, Pennsylvania, Virginia, and the Appalachian frontier. The role that religion, Trans-Atlantic influences, and the environment played in the formation of these communities will be considered, as will their different reactions to Native Americans, slaves, and the role of women. The Anglo-American imperial relationship to 1775 will also be reviewed. Prerequisite: 201.
- 451. THE REVOLUTIONARY GENERATION. 3 cr.** The history of the American Revolution, placing it within the Trans-Atlantic community, its impact upon domestic society, and its influence upon the revolutionary generation of England, Ireland, and Europe generally. In considering political developments, attention will also focus upon the Revolution's impact upon women, Native-Americans and the institution of slavery. The course will conclude with a review of the Articles of Confederation and the weaknesses of the early Federal Union. Prerequisite: 201.
- 452. THE AGE OF JEFFERSON AND JACKSON. 3 cr.** An investigation into the complex character of Jefferson, his political impact upon the Republic and the ambiguous legacy he left after 1826. Andrew Jackson will be considered as a symbol of a new democratic age. The new Jacksonian spirit will be reviewed in the light of social reform movements, 1815 to 1840. The course will also consider Native-American cultures and the changing attitudes towards slavery. Prerequisite: 201.
- 456. THE GILDED AGE. 3 cr.** Economic, political, and social changes during the rise of industrial America between Reconstruction and the coming of World War I. Prerequisite: 202.

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- 458. RECENT AMERICA. 3 cr.** The position of America in world affairs since 1914; the political and economic forces that led to the depression; World War II and the changing concept of American democracy. Prerequisite: 202.
- 460. THE OLD SOUTH. 3 cr.** The political, economic, and social development of the ante-bellum South. Settlement patterns; sectional distinctiveness; political ideology; development of slavery and the plantation system; abolitionism and slavery defense; and the growth of southern nationalism. Prerequisite: 201.
- 463. ADVANCED LOUISIANA HISTORY. 3 cr. each.** Specialized study of Louisiana history, focusing on personalities and the political, military and socio-economic developments that have shaped the state's history. A. Beginnings to 1803; B. 1803-1865; C. 1865 to Present. No more than 6 semester hours may be applied toward degree requirements.
- 464. THE AMERICAN FRONTIER. 3 cr.** The westward movement in America from 1607 to 1890, emphasizing the process of pioneering and the influence of the frontier on American institutions.
- 465. U.S. DIPLOMATIC HISTORY. 3 cr.** American foreign relations from the Revolutionary era to the present with emphasis on the forces that have shaped American foreign policy and on the diplomatic history of the United States from 1898 to the present. Prerequisite: 202.
- 469. AMERICAN CONSTITUTIONAL AND LEGAL HISTORY. 3 cr.** The development of American Constitutional and legal systems from the Colonial period to the present. An emphasis will be placed on the Constitutional Convention of 1787 and the intent of the Founding Fathers. Important court decisions will be reviewed up to the Reconstruction period. Later topics, such as civil rights, the imperial presidency and constitutional developments within this century, will also be considered. Prerequisites: 201, 202.
- 470. BIBLICAL LANDS. 3 cr.** An introduction to the material culture, cultural history and cultural processes of the Biblical world, with an emphasis on the connection between archaeology and the Bible.
- 472. COLONIAL LATIN AMERICA. 3 cr.** Discovery, exploration, and settlement; Spanish and Portuguese colonial systems; political, economic, and social development including the wars of independence.
- 473. MODERN LATIN AMERICA. 3 cr.** The Latin American states from independence to the present; internal problems and progress; international relations.
- 474. ANCIENT EGYPT. 3 cr.** This course is intended as a broad survey of Egyptian history, culture, and archeology from the Old Kingdom to the Roman period. It is an introduction to the social, economic, cultural, and religious developments of the first nation-state in the world.
- 475. ANCIENT NEAR EAST AND GREECE. 3 cr.** Egypt, Sumer, Assyria, Babylonia and other civilizations in the Ancient Near East from 3100 B.C.E.; Greece from the Mycenaean Period through Periclean Athens. Emphasis on archaeological evidence, political developments, cultural accomplishments. Prerequisite: 111.
- 476. ANCIENT ROME. 3 cr.** Ancient Rome from Romulus through the early Empire, with an emphasis on the development of Roman traditions during the Republic and the transition from Republic to Empire under the Julio-Claudians. Roman government, class structure, and the significance of important historical figures will be emphasized. Prerequisite: 111.
- 477. THE MIDDLE AGES. 3 cr.** The social, cultural, religious, political, and economic history of Europe from the end of the Roman Empire to the Renaissance. Particular attention is devoted to the Church, feudalism, manorialism, political institutions, and the rise of towns and capitalism. Prerequisite: 111.
- 478. RENAISSANCE AND REFORMATION. 3 cr.** The transition in Western civilization from the medieval to the modern era, 1300 to 1648; cultural, economic, social, religious, and political developments of the era. Prerequisite: 111.
- 479. ABSOLUTISM AND REVOLUTION, 1610-1815. 3 cr.** This course surveys the political, social, economic and cultural history of Europe from the birth of Absolutism to the downfall of Napoleon Bonaparte. In addition to addressing the cultural and intellectual changes of the 17th and 18th centuries, this course will focus on the social and economic developments of the period, changes that ultimately shaped the modern world. Particular emphasis will be given to the emerging nation-state, the new scientific world-view, Enlightenment ideology, and the evolutionary turmoil of the late 18th century. Prerequisite: 112. (Formerly Absolutism and Revolution, 1648-1815.)

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- 480. EUROPE, 1815-1890. 3 cr.** This course surveys the political, social, economic and cultural history of Europe from the downfall of Napoleon to the golden age of imperial Europe at the end of the 19th century. Topics considered include the effects of industrialization, the impact of widespread revolution, the unification of Bismarckian Germany, and the spread of European Imperialism. Prerequisite: 112. (Formerly Europe, 1815-1914.)
- 481. EUROPE, 1890-1945. 3 cr.** This course surveys European history from the close of the 19th century to the end of World War II. The focus is primarily upon national and international politics, but with careful attention to economic, social and cultural developments in their relationship to political change. Prerequisite: 112. (Formerly Europe Since 1914.)
- 483. TUDOR AND STUART ENGLAND, 1485-1714. 3 cr.** The principal political, economic, social, religious, and cultural developments from the beginning of the Tudor dynasty to the Hanoverians. The New Monarchy and conciliar government; the experiment and failure of the Stuarts in Divine Right Monarchy; the beginnings of party and cabinet government. Prerequisites: 111, 112.
- 487. FRENCH HISTORY. 3 cr.** A survey of French political institutions, cultural developments, and social structure from approximately 800 to the present time. Topics will include Charlemagne, the French Revolution and Napoleon, and France's position in the modern world. Prerequisites: 111, 112.
- 488. REVOLUTIONARY FRANCE, 1789-1871. 3 cr.** A survey of the political, social, economic and cultural history of France from the origins of the French Revolution to the collapse of the radical Paris Commune in 1871. The course will explore the vast changes in France that transformed it from a pre-industrial state of peasants and aristocrats to a world of modern industry and technology. Prerequisite: 112.
- 490. EAST CENTRAL EUROPE SINCE 1400. 3 cr.** This course will examine the social, political, economic, and cultural development of the lands traditionally known as Poland, Hungary, Bohemia, and Ukraine from the late Middle Ages to the present. This course will introduce the main forces and personalities that shaped Eastern European history in the past and continue to shape it today.
- 492. RUSSIA TO 1917. 3 cr.** Founding of the nation, tsarist institutions, conditions leading to the revolutions of 1917. Prerequisite: 112.
- 493. SOVIET UNION AND COMMONWEALTH OF INDEPENDENT STATES. 3 cr.** The revolutions of 1917 and the development of the Soviet system. Political, social, and economic developments in the U.S.S.R. with special attention to the role of the Soviet Union in world affairs. The collapse of the U.S.S.R. and the emergence of the Commonwealth of Independent States. Prerequisite: 112.
- 495. TOPICS IN HISTORY. 1-6 cr. each. Maximum, 6 cr.** Specialized study of topical events in history. Content varies. A. Canada (3 cr.); B. Local and Family History (3 cr.).

For Graduates Only

- 504. THE RISE OF SOUTHERN NATIONALISM, 1846-1861. 3 cr.** The developing split between the northern and southern sections during and after the War with Mexico over slavery and its expansion, the tariff, states rights, transcontinental railroads and other issues gave rise to the South seeing itself as a distinctive minority section, which should develop its own nationhood. Other topics to be reviewed will include politics, economics, religion, education, society, and culture.
- 506. CIVIL WAR MILITARY HISTORY. 3 cr.** The Civil War is considered to have been the first modern war. This course will examine how the war transformed warfare in general, the strategy pursued by both the Union and Confederate forces, major campaigns and battles, and the personalities of the opposing leaders.
- 508. LOUISIANA IN THE CIVIL WAR AND RECONSTRUCTION. 3 cr.** A detailed study of the Civil War and Reconstruction in Louisiana and the role the state and its people played in those events. Special emphasis will be placed on military activity during the war and politics and race relations during Reconstruction.
- 510. SEMINAR IN AMERICAN POLITICAL HISTORY. 3 cr.** A seminar in American political history from the nation's early years through the present.
- 512. HISTORY OF WARFARE. 3 cr.** A seminar exploring the conduct of warfare throughout history, emphasizing how it shapes and is shaped by culture.

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- 513. THE AMERICAN HERITAGE. 3 cr.** A social and intellectual history of the United States from colonial times to the present with emphasis on ideas and social forces which have shaped the American mind and society.
- 516. THE MAKERS OF AMERICA. 3 cr. each. Maximum, 6 cr.** Biographical studies of prominent Americans: A. 1607-1800; B. 1800-1865; C. 1865-1914; D. 1914-Present; E. Latin America.
- 517. THE AMERICAN REVOLUTION. 3 cr.** This course will investigate the causes, development and impact of the American Revolution upon both domestic and western European societies. An emphasis will be placed upon the evolution of republican thought as well as the Tory/conservative reaction. The course will also focus upon the revolutionary changes in the South and within Native-American communities.
- 523. WESTERN HERITAGE. 3 cr.** A social and intellectual history of Western Civilization from early society to the present. Emphasis on the major social, philosophical, scientific, and religious ideas that have affected the development of social institutions and intellectual trends in modern times.
- 526. THE MAKERS OF EUROPE. 3 cr. each. Maximum, 6 cr.** Biographical studies of prominent Europeans: A. Ancient; B. Middle Ages; C. Renaissance and Reformation; D. 17th and 18th Centuries; E. 19th Century; F. 20th Century.
- 530. RESEARCH METHODS. 3 cr.** Techniques of research, bibliographical aids, collection and criticism of data, the application of research methods in historical writing.
- 532. SEMINAR IN SOCIETY AND CULTURE IN EARLY MODERN EUROPE. 3 cr.** This course examines the theories and practices of elite and popular culture in early modern Europe from the Renaissance through the French Revolution. Specifically, it addresses issues concerning the Family, Crime, Women, Religion, the Witch-craze, and changing European perceptions of Death.
- 535. HISTORIOGRAPHY. 3 cr.** Survey of historical writings, historians, and course materials in history.
- 550. SEMINAR. 3 cr. each. Maximum, 9 cr.** Reading and research on special topics. A. Early American History; B. The National Period of American History; C. European History; D. Latin American History; E. Miscellaneous Topics..
- 591. DIRECTED READING AND RESEARCH. 3 cr.** Selected topics and problems relating to individual interests and needs. Prerequisite: Approval of Adviser and Department Head.
- 599. THESIS. 1-9 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.

(HORT)**For Undergraduates and Graduates**

- 401. PLANTS AS TEACHING TOOLS. 3 cr.** The basic concepts concerned in handling plants for the preschool and elementary school child. Selection and development of materials to enhance learning situations and develop an appreciation of the role of plants in life. Not to be taken for major credit or used to satisfy science requirements.

HUMANITIES**(HUMN)****For Undergraduates and Graduates**

- 401. CHANGING VIEW OF THE TWENTIETH CENTURY. 3 cr.** A study of contemporary society, art, science, and culture. Concerned with the problems of "future shock."

INSURANCE**(INSU)****For Undergraduates and Graduates**

- 423. INSURANCE SEMINAR. 3 cr.** A study of the application of various insurance coverage to fulfillment of personal, business, and social needs. Students are assigned special projects in the field of their interests. Prerequisite: Finance 305 or 307 or 309 or 311 or permission of instructor. (Formerly Finance 423.)

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KINESIOLOGY (KINS)

For Undergraduates and Graduates

- 406. ADVANCED DRIVER EDUCATION. 4 cr.** Curriculum innovations and instructional devices (with lab). In-depth study of curriculum materials and instructional devices and techniques including simulation, multi-media, driving range, on-street instruction, and motorcycle. Instruction in the use of all forms supplied by the State Department of Education. Prerequisites: 325 and junior standing.
- 408. ADAPTED PHYSICAL EDUCATION FOR STUDENTS WITH SPECIAL NEEDS. 3 cr.** The study of specially adapted programs of physical education and recreation designed to enhance the development of the student with special needs. Basic knowledge, skills, and competencies in adapted physical education are covered with emphasis in program modification of activities.
- 413. MANAGEMENT OF HEALTH, PHYSICAL EDUCATION, AND RECREATION. 3 cr.** The purpose and functions of the management process in the instructional and related area programs in today's classroom as well as experiences in those areas outside the normal classroom setting. Federal and state regulations in education, alternative programs, discipline and other current problems are discussed. Ten (10) hours of classroom observation will be completed during this course. Prerequisite: 211 and junior standing. (Formerly Administration of Health, Physical Education, and Recreation.)
- 417. SCHOOL HEALTH PROBLEMS. 3 cr.** School health problems and current programs of prevention and protection against disease. Prerequisite: Junior standing.
- 427. TRENDS IN ELEMENTARY PHYSICAL EDUCATION. 3 cr.** In-depth study of current trends and practices used in teaching and developing a sound physical education program in the elementary school. Prerequisite: Junior standing.
- 432. ANATOMICAL AND PHYSIOLOGICAL KINESIOLOGY. 3 cr.** Application of anatomy and physiology to analysis and improvement of human performance in gross body movement. Prerequisite: Physical Science 101 and Junior standing.
- 437. PHYSIOLOGY OF EXERCISE. 3 cr.** Acute and chronic physiological changes in response to exercise. Emphasis on the practical application of exercise training for health, fitness, and performance. Prerequisite: Junior standing.
- 438. EXERCISE PHYSIOLOGY LABORATORY. 1 cr.** A laboratory course to accompany KINS 437. Emphasis is given to demonstration of physiological responses to exercise testing, as well as other laboratory procedures unique to exercise science. Prerequisite: Credit for or concurrent enrollment in KINS 437.
- 441. WORKSITE HEALTH PROMOTION PROGRAMMING. 3 cr.** This course is designed to develop knowledge and awareness of the major issues in the field of worksite health promotion programming, as well as to enhance the ability of future practitioners to develop the professional techniques necessary to fulfill wellness programming needs within the corporate fitness/wellness field. Prerequisite: 241 and Junior standing.
- 442. HEALTH AND PHYSICAL EDUCATION PROGRAM DEVELOPMENT. 3 cr.** This course is designed to foster the examination, discussion, and creation of health/physical education program development. Prerequisite: Permission of Instructor.
- 491. DIRECTED STUDY. 1-3 cr. Maximum, 6 cr.** Directed study and/or research in selected areas of Health and Physical Education. A. Health, B. Kinesiology, C. Athletic Injuries, D. Selected Topics. A maximum of six credits may be taken. Prerequisites: Approval of Department Head.

LATIN (LATN)

For Undergraduates and Graduates

- 401. ADVANCED READINGS IN LATIN. 3 cr. Maximum, 6 cr.** Study in Latin of a specific author or literary genre. Prerequisite: 202 or equivalent.

GRADUATE COURSES 137**LOUISIANA EDUCATION CONSORTIUM
(LEC)****For Graduates Only**

- 715. ADVANCED CONTENT METHODOLOGY AND TECHNIQUES. 3 cr.** This course analyzes and evaluates content-specific methods, techniques, and trends for early childhood, elementary, middle, and secondary education.
- 716. PROBLEMS AND ISSUES IN CURRICULUM AND INSTRUCTION. 3 cr.** This course analyzes and evaluates current curriculum concepts and designs as well as major trends in curriculum and instruction for K - 12 settings.
- 717. GRANTS PLANNING AND MANAGEMENT. 3 cr.** Strategies are presented to identify relevant funding sources at the local, regional, and national levels and to prepare, submit, and manage effective proposals.
- 718. PRINCIPLES AND PRACTICES IN INSTRUCTIONAL SUPERVISION. 3 cr.** Strategies and techniques of supervising instruction are presented and reviewed. Models of supervising instructional programs are analyzed, interpreted, and evaluated.

**LOUISIANA EDUCATION CONSORTIUM (CURRICULUM AND INSTRUCTION)
(LECC)****For Graduates Only**

- LECC 705. DECISION MAKING FOR SCHOOL IMPROVEMENT AND ACCOUNTABILITY. 3 cr.** Problem-solving models and decision-making strategies are examined, applied in authentic settings, and evaluated for impact in the area of school improvement and accountability. (Same as Louisiana Education Consortium Leadership 705.)
- LECC 706. COMMUNICATION AND COLLABORATION IN PROBLEM SOLVING. 3 cr.** Presents methods and styles of communication which facilitate interpersonal communication and introduces techniques and methods of conflict resolution.
- LECC 707. CURRICULUM THEORY AND DESIGN. 3 cr.** This course focuses on school curriculum theory, design, revision, reform and critical issues. (Same as Louisiana Education Consortium Leadership 707.)
- LECC 708. MODELS OF TEACHING; THEORIES AND APPLICATION. 3 cr.** This course builds the requisite knowledge and skills for selecting and implementing various teaching models congruent with specific teaching and learning needs.
- LECC 709. EFFECTIVE TEACHING, LEARNING, AND ASSESSMENT. 3 cr.** Course examines research-based theories and practices of teaching, learning, and assessment, including diagnosing student needs and selecting appropriate learning strategies.
- LECC 710. PROFESSIONAL DEVELOPMENT: DESIGN AND IMPLEMENTATION. 3 cr.** This course focuses on analysis of the professional environment with emphasis on strategies for professional development as evidenced by teaching, service, and research.
- LECC 722. INSTRUCTIONAL DESIGN AND TECHNOLOGY INTEGRATION. 3 cr.** Course focuses on the design, development, implementation, and evaluation of instructional materials that are created according to instructional design principles.
- LECC 723. BRAIN BASED EDUCATION. 3 cr.** Course introduces candidates to the methods, procedures and educational implications of brain-based research.

**LOUISIANA EDUCATION CONSORTIUM (DISSERTATION)
(LECD)****For Graduates Only**

- LECD 778. ADVANCED RESEARCH DESIGN. 3 cr.** Course provides students knowledge and skills needed to complete dissertation prospectus and begin dissertation using quantitative, qualitative and mixed methods of inquiry.
- LECD 799. DISSERTATION. 3-9 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.

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LOUISIANA EDUCATION CONSORTIUM (FOUNDATIONS) (LECF)

For Graduates Only

- LECF 700. INTRODUCTION TO DOCTORAL RESEARCH. 3 cr.** This course is designed to extend the student's knowledge and expertise in research design, styles, and format for writing a dissertation and the use of graduate electronic resources and statistical analysis.
- LECF 701. APPLIED STATISTICAL ANALYSES. 3 cr.** This course surveys procedures for using the computer in text editing, data management, and statistical processing of research data. Laboratory sessions are required. Prerequisite: LECF 700
- LECF 702. EVALUATION THEORY AND PRACTICE. 3 cr.** This course investigates the theories and practices associated with performance evaluation, focusing on individual, instrument, and program evaluation and the decision-making processes associated with each.
- LECF 703. QUALITATIVE RESEARCH IN EDUCATION. 3 cr.** This course examines theories and methods of qualitative educational research, including ethnography, case studies, interview studies, and document analysis. Prerequisite: LECF 700.
- LECF 704. SOCIOCULTURAL AND DIVERSITY ISSUES. 3 cr.** Examines sociocultural issues related to existence and delivery of programs and services for equity and excellence in education of diverse student populations.

LOUISIANA EDUCATION CONSORTIUM (INTERNSHIP)

For Graduates Only

- LECI 776. INTERNSHIP SEMINAR. 3 cr.** The seminar provides opportunities to discuss and critique internship activities. May be taken concurrent with or prerequisite to LECI 777.
- LECI 777. INTERNSHIP. 3 cr.** This course is a supervised on-site educational experience in curriculum, instruction, supervision, or administration. Pre- or co-requisite: LECI 776

LOUISIANA EDUCATION CONSORTIUM (EDUCATIONAL LEADERSHIP)

For Graduates Only

- LECL 705. DECISION MAKING FOR SCHOOL IMPROVEMENT AND ACCOUNTABILITY. 3 cr.** Problem-solving models and decision-making strategies are examined, applied in authentic settings, and evaluated for impact in the area of school improvement and accountability. (Same as Louisiana Education Consortium Curriculum 705.)
- LECL 707. CURRICULUM THEORY AND DESIGN. 3 cr.** This course focuses on school curriculum theory, design, revision, reform and critical issues. (Same as Louisiana Education Consortium Curriculum 707.)
- LECL 711. MAKING CONNECTIONS: THEORY, RESEARCH, & PRACTICE. 3 cr.** Explores conceptual models used to define and explain learning organizations and the investigation of roles, strategies, and methods used by educational leaders.
- LECL 712. ORGANIZATION AND ADMINISTRATION OF SCHOOLS. 3 cr.** Provides a study of the organization and administration of schools in the United States. Concepts of organization, administration, and management are explored.
- LECL 713. HUMAN RESOURCE DEVELOPMENT. 3 cr.** This course investigates theories of human resource development. The utilization of human resource information technology is included as a practice throughout the course.
- LECL 714. LAW, POLICY, AND ETHICS. 3 cr.** This course provides an in-depth study of the Educational Policy Process in Public School Administration and Supervision.
- LECL 720. BUILDING EFFECTIVE PARTNERSHIPS. 3 cr.** The advanced study and application of leadership theories and skills to develop partnerships with public, civic, government and community organizations.
- LECL 721. LEADING EFFECTIVE TEACHING AND LEARNING. 3 cr.** This course develops candidate instructional leadership skills for analyzing effective teaching/learning behaviors, implementing leadership methods for staff development, and communicating multicultural awareness.

LIBRARY SCIENCE (LIBR)

For Undergraduates and Graduates

- 401. LIBRARY REFERENCE MATERIALS. 3 cr.** Introduction to principles and methods of reference work with emphasis on characteristics of basic and specialized reference sources; assessing new technologies for retrieval of information; teaching use of reference materials; and clinical experiences. Prerequisite: Junior level or Consent of Instructor. For graduate credit, a valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 405. ORGANIZATION OF LIBRARY MATERIALS. 3 cr.** Basic principles of cataloging and classifying library materials. Includes clinical experiences. Prerequisite: Junior level or Consent of Instructor. For graduate credit, a valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.

For Graduates Only

- 501. PROBLEMS IN SCHOOL LIBRARIANSHIP. 3 cr. Maximum, 6 cr.** Advanced study for school library media specialists with emphasis on special topics including changes in the teaching and learning process, development and application of new technologies, and materials and services for special groups. May be repeated when topics varies. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.

LINGUISTICS (LING)

For Undergraduates and Graduates

- 451. LANGUAGE AND CULTURE. 3 cr.** An overview of linguistic concepts and theories. Attention will be given to the history of language study and to the phenomenon of language acquisition from cultural and social viewpoints.

MANAGEMENT (MGMT)

For Undergraduates and Graduates

- 407. COLLECTIVE BARGAINING. 3 cr.** Process of developing and administering agreements between labor and management concerning terms and conditions of employment. Theoretical analysis research reports, and actual bargaining. Prerequisite: 301 and senior standing or approval of department head.
- 414. QUALITY MANAGEMENT. 3 cr.** Management of the continuous quality improvement process. Emphasis is on service and manufacturing industries. Covers a variety of methods and procedures for quality analysis and improvement. Prerequisite: 309 or permission of instructor.
- 481. CONTINUING STUDIES IN MANAGEMENT. 3 cr.** Applied general management for students not pursuing a degree. May be repeated. Credit may not be applied toward a degree in the College of Business Administration. Grades of CR (Credit) or NC (No Credit) will be awarded.

For Graduates Only

- 505. SEMINAR IN MANAGEMENT. 3 cr.** Emphasis upon the study of macro-organizational issues including managerial responsibilities for planning, goal-setting, communicating, and controlling in organizations. Prerequisite: 301.
- 507. SEMINAR IN HUMAN RESOURCE MANAGEMENT. 3 cr.** Advanced study of selected administrative and technical policies and practices in employee relations; emphasis on personnel department activities and functions. Prerequisite: 301. (Formerly Seminar in Personnel Management.)
- 519. OPERATIONS AND QUALITY MANAGEMENT. 3 cr.** Current developments/trends in business operations and techniques for continuous improvement of operations. Focus on the application of business practices (planning and controlling operations; forecasting, capacity management;

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scheduling and resource management.) Prerequisite: 309 or permission of instructor. (Formerly Production and Operations Management.)

- 591. DIRECTED STUDY. 3 cr.** Individual study of advanced management topics under the direction of a Senior faculty member. Prerequisites: Twelve semester hours of BMBA courses and a minimum graduate GPA of 3.5.

MARINE SCIENCE (MNSC)

For Undergraduates and Graduates

- 401. MARINE BOTANY. 4 cr.** Study of marine and coastal algae and vascular plants, including classification, morphology, life cycles, and ecology; emphasis on field and laboratory studies. Prerequisites: 12 hours botany including BIOL 438; Permission of Instructor. Offered summer only. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory.
- 410. MARINE ECOLOGY. 4 cr.** Relationships of marine and estuarine organisms to environmental factors; interactions among organisms; ecological processes of energy and materials flow; field studies of communities and ecosystems of the Louisiana coastal zone. Prerequisite: 204, 205, 330, 332; CHEM 107, 109; Permission of the Instructor. Offered summer only. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory.
- 420. MARINE MICROBIOLOGY. 4 cr.** Introduction to the estuarine and marine microbes, especially bacteria and fungi; classification, methodology, role in marine ecosystems, biogeochemical cycles, and diseases of marine animals. Prerequisites: 12 hours of biology, including 214, 215; Permission of Instructor. Offered summer only. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory.
- 450. MARINE INVERTEBRATE ZOOLOGY. 4 cr.** General study of the classification, structure, function, and ecology of marine and estuarine invertebrates; emphasis on field studies of invertebrates of the Louisiana Gulf Coast. Prerequisites: 8 semester hours of zoology and Permission of Instructor. Offered summer only. Five weeks at a Louisiana Marine Consortium coastal laboratory.
- 455. MARINE VERTEBRATE ZOOLOGY. 4 cr.** Field and laboratory studies of marine vertebrates with particular emphasis on the fishes, including classification, structure, function, and ecology. Prerequisites: 16 semester hours of zoology and Permission of Instructor. Offered summer only. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory.
- 460. COASTAL MARINE GEOLOGY. 4 cr.** Geomorphologic features of estuarine, coastal, and continental shelf environments; erosional, depositional, and geochemical processes; field and laboratory methods. Prerequisites: physical and historical geology; general chemistry or mineralogy; and Permission of Instructor. Offered summer only. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory.
- 470. MARINE ENVIRONMENTAL CHEMISTRY. 4 cr.** Chemical composition of the oceans; chemical, biological, and geological interactions. Prerequisites: 16 semester hours of chemistry and Permission of Instructor. Offered summer only. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory.
- 480. MARINE SCIENCE FOR TEACHERS. 4 cr.** Survey of the marine sciences; field and classroom techniques for the teaching of marine science at the elementary and secondary school levels. Credit can be applied only to degrees in education. Offered summer only. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory or participating state university.

For Graduates Only

- 501. TOPICS IN MARINE SCIENCE. 1-6 cr. Maximum, 6 cr.** Advanced lecture, laboratory, and field work on a selected topic in the marine sciences at a coastal laboratory of the Louisiana Universities Marine Consortium. By arrangement.
- 591. SPECIAL PROBLEMS IN MARINE SCIENCE. 1-6 cr. Maximum, 6 cr.** Directed research and study at a coastal laboratory of the Louisiana Universities Marine Consortium. By arrangement.

GRADUATE COURSES 141**MARKETING
(MRKT)****For Undergraduates and Graduates**

- 401. INTERNATIONAL. 3 cr.** All phases of marketing as applied in an international operation: research, marketing channels, promotion, financing, pricing, licensing, organization requirements, and methods of coordination. Prerequisite: 301.
- 403. SERVICES MARKETING. 3 cr.** Study of the special characteristics of service enterprises and the development of marketing strategies for such organization. Prerequisite: 301.
- 406. BUSINESS-TO-BUSINESS MARKETING. 3 cr.** Strategies and tactics used in marketing complex technologies and services to industrial firms. Emphasis is given to value and vendor analysis as key elements in marketing. Prerequisite: 301.

For Graduates Only

- 501. SEMINAR. 3 cr.** Study in depth of a different major topic each semester such as consumer behavior, physical distribution, price strategy, promotion, or marketing theory. Course content will be tailored to the background and interests of students enrolled. Prerequisite: 301.
- 591. DIRECTED STUDY. 3 cr.** Individual study of advanced marketing topics under the direction of a Senior faculty member. Prerequisites: Twelve semester hours of MBBA courses and a minimum graduate GPA of 3.5.

**MARRIAGE AND FAMILY THERAPY
(MAFT)****For Graduates Only**

- 502. THERAPEUTIC ALLIANCE. 3 cr.** The study of theory, processes and techniques involved in establishing and maintaining the therapeutic alliance with individuals and family systems. Designed as a pre-practicum experience, the course includes laboratory demonstrations and practical to develop and maintain the therapeutic alliance.
- 510. METHODS OF MARRIAGE AND FAMILY THERAPY. 3 cr.** A study of methods and strategies of major models of marriage and family therapy. A pre-internship practicum course.
- 520. MARRIAGE AND FAMILY DEVELOPMENT. 3 cr.** A study of the developmental progression of the family life cycle, including the three dimensional family system and critical tasks in each stage of family development with suggested interventions for each stage of the family life cycle.
- 521. MALADAPTIVE BEHAVIOR. 3 cr.** A study of normal and abnormal manifestations of individual personality development including theory and diagnosis. Emphasis will be placed on integration of this material with systems concepts. (Formerly Individual Development. Same as Counseling 521.)
- 591. DIRECTED STUDY. 1-6 cr.** Investigative study in selected problems for advanced graduate students.
- 599. THESIS. 1-6 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.
- 608. PROFESSIONAL ISSUES IN MARRIAGE AND FAMILY THERAPY. 3 cr.** A survey of current issues relating to professional identity and practice in the field of Marriage and Family Therapy. Students will be introduced to the certification and licensure requirements, professional practice models, and the utilization of these models in developmental and therapeutic practice.
- 610. INTRODUCTION TO MARRIAGE AND FAMILY THERAPY. 3 cr.** A survey of current theories and practices of marriage and family therapy, including the historical development and principal conceptualizations of relationship therapy. Prerequisite: Approval of department head.
- 620. ADVANCED THERAPY STRATEGIES FOR PARENT-CHILD RELATIONSHIPS. 3 cr.** A course in didactic therapy involving specialized training in the techniques and strategies used specifically in parent-child therapy procedures. Prerequisite: 610.
- 662. HUMAN SEXUALITY. 3 cr.** A study of the biological, psychosocial, clinical, and cultural aspects of human sexuality. Prerequisite: 610 or permission of instructor. (Same as Counseling 662.)
- 664. FAMILY CONSULTATION. 3 cr.** A study of the models and process of family consultation used in marriage and family therapy.
- 665. ADVANCED PROCEDURES. 3 cr.** The study of specialized processes and techniques involved in individual and family systems approaches and practices. Designed as a post-practicum experience, the course involves laboratory activity and practice to refine specialized procedures. Prerequisite: 510 or permission of instructor. (Same as Counseling 665.)

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666. **ADVANCED THEORY. 3 cr.** An in-depth study of counseling and systems theories and supportive research including practical application of techniques used in individual and family therapy. (Same as Counseling 666.)
668. **SEMINAR. 3 cr. Maximum, 9 cr.** Advanced study of selected topics.
670. **INTERNSHIP. 3-12 cr.** Supervised work experience in clinics, schools, colleges, or other agencies engaged in professional therapy services. Grades of CR (Credit) or NC (No Credit) will be awarded. Prerequisite: 510. (Marriage and Family Therapy majors only or permission of department head.) \$25 field experience fee.
687. **SUPERVISION. 3 cr.** In-depth examination of the major models of clinical supervision, review of the supervisory relationship process, and the procedural, ethical, and legal responsibilities associated with supervision.
700. **FAMILY SYSTEMS I: EPISTEMOLOGICAL ISSUES IN MARRIAGE AND FAMILY THERAPY. 3 cr.** Study of the paradigm shift represented by the systems/cybernetics/ecological perspective, the constructivist, social constructionist, narrative perspectives, and the implications of these perspectives for society, social policy, assessment, research, and mental health practice.
702. **FAMILY SYSTEMS II: FOUNDATIONS OF MARRIAGE AND FAMILY THERAPY. 3 cr.** A study of the historical roots, foundation ideas, and philosophical evolution of systemic, cybernetic, and ecological perspectives in individual, marriage and family therapy.
710. **FAMILY THERAPY I. 3 cr.** Building on the philosophical perspectives of modernism/structuralism and postmodernism/poststructuralism, this course involves intensive study of brief models of marriage and family therapy, including Communications/MRI, Strategic (Haley & Madanes), Systemic (Milan), constructivist, social constructionist, and narrative/language (Andersen, Goolishian & Anderson, deShazer, O'Hanlon, White and Epston).
712. **FAMILY THERAPY II. 3 cr.** Building on the philosophical perspectives of modernism/structuralism and postmodernism/poststructuralism, this course involves intensive study modernist models of marriage and family therapy. Models to be studied include communications (Satir), experiential (Kempler and Whitaker), family of origin: psychodynamic (Bowen, Boszormenyi-Nagy, & object relations), structural (Minuchin), and behavioral.
714. **COUPLE AND MARITAL THERAPY. 3 cr.** Study of current theory and practice in couple and marital therapy. Related topics include a perspective on the contemporary social context for couples and marriages, parenting, step-parenting, and single-parent families.
720. **ADVANCED FAMILY STUDIES AND HUMAN DEVELOPMENT. 3 cr.** This course focuses on the major theories used in the study, assessment, and understanding of family interaction. Particular emphasis is placed on the application of theory to a variety of family issues, weighing special considerations and implications of the rural/semi-rural context in such applications.
722. **SOCIAL ECOLOGY: THE SOCIAL CONTEXT OF THE FAMILY. 3 cr.** Macrosystemic study of the interface between families and work, religion, education, medical, social service, and mental health systems. Skill development includes a focus on systemic approaches to consultation and collaboration with members of other social systems as an adjunct to marriage and family therapy.
724. **PSYCHOPATHOLOGY AND ASSESSMENT. 3 cr.** An examination of the psychopathology nomenclature, on identifying individual and family strengths, and on viewing behavior in context. Particular emphasis is placed on understanding the individual/family and environment interaction by means of a systems perspective.
730. **SUPERVISION OF MARRIAGE AND FAMILY THERAPY. 3 cr.** A comprehensive review of the literature on the Supervision of Marriage and Family Therapy and this course is designed to meet the didactic instruction component for AAMFT Approved Supervisor designation. This course also provides an opportunity to work with an Approved Supervisor in the supervision of master's level students in marriage and family therapy.
740. **ISSUES AND PROBLEMS IN SYSTEMIC AND MARRIAGE AND FAMILY THERAPY RESEARCH. 3 cr.** Intensive study of philosophical, theoretical, and practical issues in conceptualizing, designing, and conducting research on social systems from the perspective of modernist/structuralist and postmodernist/poststructuralist philosophical traditions. Systemic/cybernetic, constructivist, social constructionist, and quantum physics perspectives will be an important focus.
742. **QUALITATIVE AND ETHNOGRAPHIC RESEARCH. 3 cr.** An examination of a broad base of qualitative research techniques used in academic and the marriage and family therapy practice settings. Prerequisites: Doctoral student in marriage and family therapy; Counseling 581 or equivalent.
746. **DISSERTATION SEMINAR FAMILY THERAPY. 3 cr.** This is an advanced seminar which is designed to assist students in selecting a dissertation topic, and designing a quantitative, qualitative, philosophical or theoretical dissertation research proposal. It is expected that students will complete the first two chapters of their dissertation in this course. Prerequisites: 740, 742, Educational Foundations 691.
750. **DOCTORAL PRACTICUM IN MARRIAGE AND FAMILY THERAPY. 1-3 cr. May be repeated. Maximum, 12 cr.** Supervised clinical experience in marriage and family therapy in the ULM Marriage and Family Therapy Clinic. Students are expected to maintain a course load of 3-6

GRADUATE COURSES 143

client systems during their practicum experience. Prerequisite: Doctoral student in marriage and family therapy.

- 752. INTERNSHIP IN MFT I & II. 1-6 cr. Maximum, 6 credits per semester. Total maximum, 12 cr.** The Internship focuses on marriage and family therapy processes and situations specific to direct marriage and family therapy practice with families and larger systems of which family systems are members. It is designed to continue the development of knowledge and skills relative to this focus in the areas of effective client-therapist relationships, analysis of client needs, service delivery issues, agency/organizational dynamics, policy issues, and professional values as each pertains to various systems levels. Prerequisite: 750.
- 761. FAMILY MEDICINE AND MARRIAGE AND FAMILY THERAPY. 3 cr.** Intensive study of a systemic/contextual perspective on the interaction of mind, body, and social context, and the interface between family therapy and family medicine. The role of the psychological, social, family and emotional factors in the discussing and healing processes are a related focus.
- 799. DISSERTATION. 3, 6, 9, 12 cr.** May be repeated for credit. Grades of CR (Credit) or NC (No Credit) will be awarded.

MASS COMMUNICATIONS (MCOM)**For Undergraduates and Graduates**

- 411. OPINION WRITING. 3 cr.** Analysis of news media editorial policy and study of the principles of interpretive comment on current affairs, with emphasis on editorial writing and presentation. Prerequisite: MCOM 210 or consent of department head.
- 412. SCRIPTWRITING. 3 cr.** Preparation of scripts for all long-program formats, with emphasis on writing and marketing radio, television, and film drama and documentaries. Prerequisite: MCOM 210 or consent of department head.
- 432. ADVANCED REPORTING FOR PRINT MEDIA. 3 cr.** Depth reporting and critical writing on police, court, political, financial, governmental and other social events and issues. Prerequisite: MCOM 331.
- 433. ELECTRONIC NEWS GATHERING. 3 cr.** Concepts and practices of news coverage for the electronic media, with special attention to field techniques, visualization and editing. A \$15 fee is charged each student to help defray expenses related to this course. Prerequisite: MCOM 331.
- 435. JOURNALISM MANAGEMENT. 3 cr.** Methods and practices for the production, promotion, and management of print and broadcast news; issues and techniques of managing and leading media companies in rapidly changing business and cultural environments.
- 440. MEDIA SALES AND PROMOTIONS. 3 cr.** In-depth study of selling for media, from prospecting to servicing accounts, with emphasis on adapting sales techniques to the special needs of print and broadcast media.
- 445. BROADCAST MANAGEMENT. 3 cr.** Organization and administration of broadcast stations and other electronic media systems, with attention to operations, community relations, and financial management.
- 451. ADVANCED PHOTOCOMMUNICATION. 3 cr.** Theory and techniques of photocommunication for print media, emphasizing use of still photography for in-depth investigating and reporting. Prerequisite: MCOM 351.
- 452. ADVANCED VIDEO PRODUCTION. 3 cr.** Theory and techniques of video production from conception to completion, for a variety of mass communications applications. A \$15 fee is charged each student to help defray expenses related to this course. Prerequisite: MCOM 352.
- 454. ADVANCED ELECTRONIC MEDIA DESIGN. 3 cr.** Theory and principles of electronic media design from conception to completion, for a variety of mass communications applications emphasizing multimedia. Prerequisite: MCOM 354.
- 460. PUBLIC RELATIONS CAMPAIGNS. 3 cr.** Use of research to identify problems and development of strategies to meet public relations needs for actual clients. Prerequisites: MCOM 361 and 370.
- 471. VISUAL COMMUNICATIONS. 3 cr.** Theories of perception, methods of analysis of visual media, and principles and strategies of visual communication, emphasizing critical thinking about the role and function of media in society.
- 472. MEDIA ANALYSIS AND CRITICISM. 3 cr.** Critical methodologies and analysis of media content and programming, emphasizing aesthetic, historical, social, cultural, and industrial factors affecting audience response. Prerequisite: Junior Standing.
- 481. MASS COMMUNICATIONS LAW. 3 cr.** Legal limitations and privileges affecting publishing, advertising, broadcasting, telecasting; consideration of legal philosophy bearing on mass communications media.
- 482. BROADCAST REGULATION. 3 cr.** The study of electronic media law and the Federal Communications Commission's rules and procedures, including an examination of current

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trends of the Commission and their possible effects on the industry and society. Prerequisite: MCOM 481.

- 490. INTERNSHIP. 2 cr.** Field experience under the general supervision of a faculty member and the direct supervision of an industry professional, with academic components including a final paper and presentation. Prerequisites: Completion of 15 hours of Mass Communications coursework including approval of major professor, faculty internship supervisor and site supervisor.

For Graduates Only

- 501. MASS COMMUNICATIONS SEMINAR (repeatable 6 cr. maximum). 3 cr.** Scholarly, in-depth research in contemporary topics in mass communications. Content varies.
- 560. PUBLIC RELATIONS PRACTICES. 3 cr.** Study of the professional practices of public relations, emphasizing theories of excellence in public relations functions, processes and ethics in multicultural society. Includes group work with actual client. Prerequisite: 3 credit hours of undergraduate coursework in the field.
- 570. MASS COMMUNICATIONS THEORIES. 3 cr.** Survey and evaluation of current theories of mass communication, including the nature of meaning, diffusion of information, differentiated responses, attitude change and persuasion, and social functions of mass media.
- 580. ISSUES IN LAW AND ETHICS. 3 cr.** Legal, ethical and regulatory constraints on mass media. Studies of the regulatory environment, lobbying, social consciousness and corporate responsibility. Analysis of current trends including the effects of deregulation and changes in the regulatory structure.
- 581. LITERATURE OF MASS COMMUNICATION. 3 cr.** Intensive reading in selected areas of mass communications, including histories, biographies, philosophies, ethics, criticism, and effects.
- 583. PUBLIC OPINION AND PROPAGANDA. 3 cr.** The study of propaganda theory and methods. Opinion-making processes in government, political parties, pressure groups and various societal institutions. The role of mass media in public opinion formation.
- 584. COMPARATIVE BROADCASTING. 3 cr.** A study of world media systems, philosophies, methodologies, and their comparative strengths and weaknesses, including their sociological, political and economic contexts and effects.
- 585. EMERGING TECHNOLOGIES. 3 cr.** Exploration of electronic communication technologies as they develop.
- 590. INTERNSHIP. 1-3 cr.** Field experience in print or electronic media, as proposed by the student to meet appropriate educational goals. Prerequisite: Completion of 9 credit hours of graduate coursework; approval of major professor and site supervisor.
- 591. DIRECTED STUDY. 1-3 cr.** Individualized study of selected topics in mass communications. Prerequisite: Approval of major professor and directed study supervisor.
- 599. THESIS. 1-6 cr.** Individualized study and research toward Master's thesis in communication with an emphasis in some area of mass communications. Prerequisite: 18 credit hours of graduate coursework.

MATHEMATICS (MATH)

For Undergraduates and Graduates

- 401. DIFFERENTIAL EQUATIONS. 3 cr.** Series solutions to ordinary differential equations, Laplace transforms, systems of differential equations, numerical methods and applications which arise in geometry, chemistry, and physics. Prerequisite: 301.
- 402. LINEAR SPACES. 3 cr.** A study of abstract vector spaces including function spaces, linear transformations, operators, functionals and duality, bilinear and quadratic forms. Prerequisites: 202, 132.
- 403-404. MATHEMATICAL STATISTICS. 3 cr. each.** Probability, discrete and continuous random variables, expected values and moments, special continuous distributions, sampling, point estimation, multivariate normal, interval estimation, tests of hypothesis, regression and linear hypothesis, experimental design models, sequential tests, and nonparametric methods. Prerequisite: 303.
- 405. PARTIAL DIFFERENTIAL EQUATIONS. 3 cr.** Fourier series, boundary value problems, partial differential equations, special functions, with an emphasis on applications. Prerequisite: 301.
- 406. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE. 3 cr.** Real and complex numbers, differentiation and integration of functions of a complex variable, mapping by elementary functions, transformations, infinite series, and theory of residues and poles. Prerequisite: 232.
- 411. FUNDAMENTALS OF MIDDLE SCHOOL MATHEMATICS I. 3 cr.** For the middle school teacher; number concepts and relationships; geometry and measurement; algebra and

GRADUATE COURSES 145

algebraic structures. Emphasis is on teaching mathematics at the middle school level. Not applicable toward a major nor minor in mathematics at undergraduate or graduate level.

- 412. FUNDAMENTALS OF MIDDLE SCHOOL MATHEMATICS II. 3 cr.** Probability and statistics for the middle school teacher. Topics include, but are not restricted to, data analysis and basic concepts of probability and statistics. Not applicable toward a major nor minor in mathematics at undergraduate or graduate level.
- 413. MODERN ALGEBRA. 3 cr.** Axioms and the nature of proof, groups, rings, integral domains, fields, homomorphisms and isomorphisms. Prerequisite: 202. Sp
- 419. TOPOLOGY. 3 cr.** Point sets, axiomatic bases, topology of the line and the plane. Emphasis on connectedness, compact sets, and continuous transformations. Prerequisites: 202 and 232.
- 425. ADVANCED MODERN ALGEBRA. 3 cr.** Continuation of 436; Euclidean domains, unique factorization domains, principal ideal domains, Galois theory and related topics. Prerequisite: A grade of "C" or better in MATH 386.
- 436. INTRODUCTION TO MATHEMATICAL CONCEPTS IN OPERATIONS RESEARCH. 3 cr.** A mathematical approach to concepts in advanced linear and nonlinear programming, dynamic programming, game theories, queueing theory and other standard topics in operations research. Prerequisites: 303 and Computer Science 435. (Same as Computer Science 436.)
- 498. RESEARCH. 1-3 cr. Maximum, 3 cr.** Open to advanced undergraduates who are capable of developing a problem independently. A. Algebra; B. Analysis; C. Topology; D. Statistics. Prerequisite: Approval of Department Head.

For Graduates Only

- 501. BASIC CONCEPTS OF ELEMENTARY MATHEMATICS. 3 cr.** In depth study of various mathematical concepts requisite to current backgrounds in teaching elementary school mathematics.
- 503. FOUNDATIONS. 3 cr.** Rudimentary topics from algebra and analysis for junior high and high school mathematics teachers. Prerequisite: 113 or advanced standing.
- 504. ANALYSIS FOR THE SECONDARY TEACHER. 3 cr.** The real number system, elementary functions and their graphs and an introduction to differential and integral calculus and its applications. Prerequisite: 113 or advanced standing.
- 505. GEOMETRY FOR SECONDARY TEACHERS. 3 cr.** Incidence geometry in planes and space, congruence, separation in planes and space, geometric inequalities, synthetic postulation, similarities, constructions, rigid motion and metrization. For high school and junior high school teachers. Prerequisite: 307 or advanced standing.
- 506. ELEMENTARY NUMBER THEORY. 3 cr.** Prime numbers and their distribution, divisibility of numbers, Pythagorean triples, Diophantine equations and their applications. Prerequisite: Approval of Department Head.
- 508. INTRODUCTION TO MODERN ALGEBRA FOR SECONDARY TEACHERS. 3 cr.** The logical structure of mathematics presented through the development of the properties of rings and fields. Intensive investigation of the real and complex number systems. Prerequisite: 113 or advanced standing.
- 509. STATISTICS FOR SECONDARY TEACHERS. 3 cr.** Course topics include the interpretation of data, graphical displays of data, distribution of data, methods of data collection, random sampling, probability, random variables, confidence intervals, tests of significance, and study of normally distributed data.
- 520-521. STATISTICAL METHODS FOR THE EXPERIMENTER. 3 cr. each.** Data description, probability and probability distributions, estimation and tests of hypothesis, linear regression and correlation, multiple comparisons, multiple regression; analysis of variance for completely randomized, randomized block, Latin square, factorial and k-way classification, and unbalanced designs; expected mean squares, analysis of covariance. The use of SAS and Minitab statistical computer packages. Emphasis is on methodology and only a high school background in mathematics and no prior knowledge of statistics is assumed. Credit cannot be earned in both 437-438 and 520-521. (Same as Computer Science 520-521.)
- 522. MULTIVARIATE STATISTICAL METHODS FOR RESEARCHERS. 3 cr.** An introductory course in applied multivariate statistical methods for the researcher. Emphasis is on concepts and the application of procedure. Topics to be covered include multivariate normal distribution theory, statistical distance, hypothesis testing, multivariate structure, graphics, and exploratory techniques. (Same as Computer Science 522.)
- 591. DIRECTED STUDY. 1-6 cr. Maximum, 6 cr.** Directed study in A. Algebra; B. Analysis; C. Topology; D. Statistics. Prerequisite: Approval of Department

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**MUSIC
(MUSC)****For Undergraduates and Graduates**

- 401. OPERA PERFORMANCE AND PRODUCTION. 3 cr.** Musical and dramatic preparation of opera roles, and basic techniques of staging and presentation. Participation in opera performances. May be repeated for credit.
- 402. SPECIAL PROBLEMS. 1-3 cr.** Investigative study of special problems by students with particular needs in music. A. Performance and Ensemble; B. History and Literature; C. Theory and Composition; D. Piano Pedagogy and Literature; E. Vocal Diction, Pedagogy, and Literature; F. Music Theatre. Prerequisite: Approval of the Head of the Division of Music. May be repeated.
- 423. ORCHESTRA. 1 cr. per semester. May be repeated for credit.** Total hours allowed vary with each degree program. Prerequisite: Approval of the Division Head. (Formerly 323.)
- 426. WIND ENSEMBLE. 1 cr. per semester. May be repeated for credit.** Total hours allowed vary with each degree program. Prerequisite: Approval of the Division Head. (Formerly 326.)
- 427. SYMPHONIC BAND. 1 cr. per semester. May be repeated for credit.** Total hours allowed vary with each degree program. Prerequisite: Approval of the Division Head. (Formerly 327.)
- 429. CONCERT CHOIR. 1 cr. per semester. May be repeated for credit.** Total hours allowed vary with each degree program. Prerequisite: Approval of the Division Head.
- 433. MADRIGALIANS. 1 cr. per semester. May be repeated for credit.** Total hours allowed vary with each degree program. Prerequisite: Approval of the Division Head.
- 434. CHAMBER MUSIC. 1 cr. per semester. May be repeated for credit.** Total hours allowed vary with each degree program. The study and performance of chamber music for various combinations of instruments. Prerequisite: Approval of the Division Head.
- 435. PIANO ACCOMPANYING. 1 cr. per semester. May be repeated for credit.** Total hours allowed vary with each degree program. Applied studio accompanying in the vocal and instrumental applied areas. Prerequisite: Approval of the Division Head.
- 437. PIANO PEDAGOGY III. 3 cr.** A survey of music for the piano from the Baroque and Classical periods suitable for students at the intermediate level.
- 438. PIANO PEDAGOGY IV. 3 cr.** A survey of music for the piano from the Romantic and Contemporary periods suitable for students at the intermediate level.
- 461. KEYBOARD HARMONY AND CREATIVE MUSICIANSHIP FOR THE PIANO TEACHER. 1 cr. Maximum, 2 cr.** A functional approach to keyboard skills for piano instructors. A combination of lab and lecture to include harmonization, chord voicing, transposition, modulation, improvisation, sight reading, and score reading. Development of proficiency in these skills, as well as an understanding of how they can be taught at different levels.
- 464. THE BAROQUE ERA. 3 cr.** Music of the Baroque period up to and including Bach. Prerequisite: 492 or Approval of Head of the Division of Music.
- 465. PIANO HISTORY AND LITERATURE. 3 cr.** A survey of pianos and their predecessors, and piano literature from the early English school to the present. Prerequisite: 193.
- 467. SURVEY OF THE MUSIC INDUSTRY. 3 cr.** An overview of the music industry, including careers, publishing, recording, and merchandising.
- 468. SURVEY OF ENSEMBLE MUSIC FOR THE PIANO. 2 cr.** Survey of piano concert and ensemble music written for one or more pianos. Music for elementary and intermediate level students will be emphasized.
- 469. BAND REPERTOIRE. 3 cr.** Introduction to band composers and their literature. A chronological approach to the available band literature and its composers.
- 470. BAND HISTORY AND LITERATURE. 3 cr.** History of bands, original compositions and transcriptions for band. Prerequisite: 193.
- 472. COMPOSITION. 3 cr. Maximum, 6 cr.** Compositions in one or more movements for various solo instruments, vocal and instrumental ensembles and full orchestra. Prerequisite: 471.
- 473. BAND ARRANGING. 3 cr.** Scoring for woodwind, brass and percussion instruments and for full band. Transcribing from piano, organ and orchestral literature. Scoring for the marching band. Prerequisite: 204.
- 474. FORM AND ANALYSIS. 2 cr.** Intensive study of the larger musical forms. Prerequisite: 372 or Approval of Head of the Division of Music.
- 475. ELECTRONIC MUSIC COMPOSITION. 3 cr.** A "hands-on" course utilizing the electronic music lab and oriented toward skills in composing art music. Prerequisite: 194, or Approval of Head of the Division of Music.

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- 476. CHORAL CONDUCTING. 2 cr.** Prerequisite: 273.
- 477. ORCHESTRATION. 2 cr.** Technical and tonal characteristics of orchestral instruments. Arranging for string, woodwind and brass choirs and for full orchestra. Prerequisite: 204.
- 479. INSTRUMENTAL CONDUCTING. 2 cr.** Prerequisite: 273.
- 480. TWENTIETH CENTURY COUNTERPOINT. 3 cr.** Twentieth century contrapuntal practice culminating with the composition of one or more major polyphonic work.
- 481. ANALYSIS OF CONTEMPORARY MUSIC. 3 cr.** Harmonic and structural analysis of representative works by such composers as Debussy, Sibelius, Bartok, and Schoenberg.
- 482. ORGAN HISTORY AND LITERATURE. 3 cr.** Organs and organ literature from the Gothic era to the present. Prerequisite: 193.
- 483. WOODWIND LITERATURE. 3 cr.** Solo and chamber music written for woodwind instruments. Prerequisite: 193.
- 484. BRASS LITERATURE. 3 cr.** Solo and chamber music written for brass instruments. Prerequisite: 193.
- 485. AMERICAN. 3 cr.** American music from early Colonial times to the present, including music of different races and ethnic groups. Prerequisite: 492 or Approval of Head of the Division of Music. (Formerly 591.)
- 486. SURVEY OF MUSIC THEATRE. 3 cr.** A survey of the history and literature of the music theatre, 1800 to the present, with emphasis on 20th century works and composers.
- 493. THE ROMANTIC ERA. 3 cr.** Music of the Romantic era and its place in the general culture of the period. Prerequisite: 492 or Approval of Head of the Division of Music.
- 494. CONTEMPORARY. 3 cr.** Music from the period of Impressionism to the present. Prerequisite: 492 or Approval of Head of the Division of Music.
- 495. ORCHESTRAL LITERATURE. 3 cr.** Orchestral music from the Baroque period to the present. Prerequisite: 193.
- 496. SONG LITERATURE. 3 cr.** Music for solo voice from the Baroque period to the present with particular attention to the Romantic period. Prerequisite: 193.
- 497. KEYBOARD LITERATURE. 3 cr.** Music for keyboard instruments from the English virginal school to the present.
- 498. CHORAL LITERATURE. 3 cr.** Choral music from the Renaissance to the present. Prerequisite: 193.
- 499. THE CLASSIC ERA. 3 cr.** Music of the Classic era and its place in the general culture of the period. Prerequisite: 492 or Approval of Head of the Division of Music.

For Graduates Only

The following courses carry 2 or 4 semester hours of credit and may be repeated for a maximum of 16 semester hours of credit. Prerequisite: Successful completion of the prior course at The University of Louisiana at Monroe and/or an audition.

Voice	541
Piano	542
Organ	543
Violin	544
Viola	545
Cello	546
String Bass	547
Clarinet	548
Saxophone	549
Flute	550
Oboe	551
Bassoon	552
Trumpet	553
Tuba	554
French Horn	555
Trombone	556
Euphonium	557
Percussion	558

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- 561. MUSIC HISTORY I. 2 cr.** A study of music of the Middle Ages and the Renaissance; the history of music from ca. 800-1600.
- 562. MUSIC HISTORY II. 2 cr.** A study of music of the Baroque and Classical eras; the history of music from ca. 1600-1815.
- 563. MUSIC HISTORY III. 2 cr.** A study of music of the Romantic and Modern eras; the history of music from ca. 1815 to the present.
- 572-573. ADVANCED COMPOSITION. 3 cr. each.**
- 575. ADVANCED COUNTERPOINT. 3 cr.** Larger polyphonic forms in sixteenth, eighteenth and twentieth century styles.
- 579. SEMINAR IN MUSIC THEORY. 3 cr.** A comprehensive course in music theory, from fundamental to advanced contemporary techniques. Written and aural work.
- 582. ADVANCED CHORAL CONDUCTING. 3 cr.** Techniques of advanced choral conducting. Score analysis and problems of preparation and performance. Study of major choral works.
- 583. ADVANCED BAND CONDUCTING. 3 cr.** Techniques of advanced band conducting. Analysis of principal band compositions with emphasis on contemporary works.
- 584. ADVANCED ORCHESTRA CONDUCTING. 3 cr.** Techniques of advanced orchestra conducting. Score analysis, rehearsal preparation, rehearsal techniques, and interpretation of standard orchestral repertoire. Prerequisite: 479 or approval of Director of School of Music.
- 585. CONDUCTING PRACTICUM. 3 cr.** An advanced course in the study of conducting. A. Choral; B. Band; C. Orchestra. Prerequisite: 582, 583, or 584; or approval of the Head of the Division of Music.
- 586. SCORE READING AND ANALYSIS FOR CONDUCTORS. 3 cr.** A study of clefs and transpositions, score reading, and analysis for the advanced conductor.
- 587. DIRECTED STUDY. 1-3 cr.** Individual research on selected topics. A. Performance and Ensemble; B. History and Literature; C. Theory and Composition; D. Piano Pedagogy and Literature; E. Vocal Diction, Pedagogy, and Literature; F. Music Theatre. Prerequisite: Approval of the Head of the Division of Music. May be repeated.
- 593. INTRODUCTION TO MUSICOLOGY. 3 cr.** Resources and methodology in musicological research. Prerequisite: 419 and 492.
- 595. HISTORY OF OPERA. 3 cr.** Development of opera from 1600 to the present, with emphasis on operas of particular significance.
- 596. LECTURE RECITAL. 2 cr.**
- 597-598. GRADUATE RECITAL. 2 cr. each.**
- 599. THESIS. 1-6 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.

MUSIC EDUCATION (MSED)

For Undergraduates and Graduates

- 401. SPECIAL PROBLEMS. 1-3 cr.**
- 403. INSTRUMENT REPAIR. 3 cr.** Practical methods of maintenance, adjustment, and repairs of musical instruments.
- 405. BAND DIRECTORS WORKSHOP. 3 cr. Maximum, 9 cr.** A "refresher" course for instrumental music education teachers emphasizing the basic concepts of the marching band. New concepts and teaching techniques in marching band will be discussed. Also, related areas such as administration, arranging, new music, charting, auxiliary units, and marching percussion will be covered. Films and video tapes will be used extensively.
- 407. PIANO TEACHERS WORKSHOP. 3 cr. Maximum, 9 cr.** A course for piano teachers, including instructional procedures, methods and materials, and teaching demonstrations.
- 409. CHORAL DIRECTORS WORKSHOP. 3 cr. Maximum, 9 cr.** A course designed for choral directors including vocal techniques, choral literature and interpretation, rehearsal methods, and teaching techniques.
- 411. MUSIC EDUCATION WORKSHOP. 3 cr.** A course designed to instruct teachers and supervisors of elementary music in singing, playing instruments, moving, creating, arranging, and selecting music for A. Basic; B. Intermediate; C. Advanced.
- 417. GENERAL MUSIC PROGRAM IN ELEMENTARY AND SECONDARY SCHOOLS. 3 cr.** Detailed consideration of the general music program, with special attention given to materials and methods of teaching.

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- 419. THE MARCHING BAND. 3 cr.** Fundamentals, organization, precision drill and pageantry; charting and rehearsal procedures and musical problems.
- 420. DRILL DESIGN TECHNIQUES. 3 cr.** A course designed to provide advanced drill design techniques including music analysis, interpretive writing, horn placement, drill teaching techniques, and element correlation. Prerequisite: 419 or equivalent.
- 490. CHORAL REPERTOIRE. 3 cr.** A survey of the choral octavo literature at the high school through collegiate level; in conjunction with selection of materials and programming.
- 491. INTRODUCTORY WORKSHOP IN ORFF-SCHULWERK. 3 cr.** Basic Orff-Schulwerk techniques, including body movement, soprano recorder, percussion, vocal performance, improvisation, and arranging.
- 492. INTERMEDIATE WORKSHOP IN ORFF-SCHULWERK. 3 cr.** Intermediate level Orff-Schulwerk techniques, including modal harmonization, irregular rhythms, alto recorder performances, and more extensive improvisation and arranging. Prerequisite: 491 or equivalent.
- 493. ADVANCED WORKSHOP IN ORFF-SCHULWERK. 3 cr.** Advanced Orff-Schulwerk techniques including original composition, complex form, movement, and instrumental arrangements, tenor and bass recorder performances, and advanced improvisation. Prerequisite: 492 or equivalent.
- 495. THE USE OF MUSICAL INSTRUMENTS IN GENERAL MUSIC EDUCATION. 3 cr.** A course designed to provide basic playing ability of the following instruments: autoharp, melody bells, recorder, guitar, piano, dulcimer, and the various Orff melodic and percussion instruments. Prerequisite: 322 or 335 or equivalent.
- 496. THE ADVANCED USE OF MUSICAL INSTRUMENTS IN GENERAL MUSIC EDUCATION. 3 cr.** Course designed to improve the students playing proficiency on the following classroom instruments: guitar, recorder, autoharp, melody bells, dulcimer, piano, and the various Orff melodic and percussion instruments. Prerequisite: 495 or equivalent.

For Graduates Only

- 501. VOICE PEDAGOGY. 3 cr.**
- 503. PIANO PEDAGOGY. 3 cr.**
- 505. STRING PEDAGOGY. 3 cr.**
- 507. WOODWIND PEDAGOGY. 3 cr.**
- 509. BRASS PEDAGOGY. 3 cr.**
- 511. PERCUSSION PEDAGOGY. 3 cr.**
- 513. THEORY PEDAGOGY. 3 cr.**
- 515. SEMINAR IN INSTRUMENTAL MUSIC. 3 cr.**
- 517. SEMINAR IN VOCAL MUSIC. 3 cr.**
- 531. MUSIC ORGANIZATION, ADMINISTRATION, & SUPERVISION. 3 cr.** Organizational, administrative, and supervisory concepts and principles at the elementary, secondary, and college levels.
- 533. INTRODUCTION TO RESEARCH IN MUSIC AND MUSIC EDUCATION. 3 cr.** The materials and techniques of research methods in music and music education. A survey of bibliographical procedures and development of skills in scholarly writing. Required for all graduate degrees in music and music education.
- 537. FOUNDATIONS OF MUSIC EDUCATION. 3 cr.** Historical, philosophical, aesthetic, psychological, and social foundations of music education. Includes the total school program of K-12, continuing education, evaluative techniques, and the music educator's role in the community.
- 541. APPLIED TECHNIQUES. 1 cr. Maximum, 3 cr. each area.** An applied approach to the study of teaching methods, techniques, and materials for the graduate music student. A. Voice; B. Keyboard; C. Strings; D. Woodwinds; E. Brasses; F. Percussion. Prerequisite: Approval of the Head of the Division of Music.
- 587. DIRECTED STUDY. 1-3 cr.** Individual research on selected topics in vocal and/or instrumental music education. Prerequisite: Approval of the Head of the Division of Music.

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NURSING (NURS)

For Undergraduates and Graduates

- 433. NURSING INTERVENTION IN THE CARE OF THE AGED. 3 cr.** A study of the concepts and principles necessary for nursing intervention in the care of the aged. The focus will be on the seven broad areas in the care of the aged that have nursing implications: Aging and Nursing, The Normal Aging Process, Deviations of the Aging Process: Geropsychiatry; Deviations of the Aging Process: Pathophysiology; The Nursing Process; Social Forces and Aging: Implications for Nursing; Research in Aging.
- 435. HEALTH ASSESSMENT AND HEALTH MAINTENANCE OF THE AGING PATIENT. 3 cr.** A study to impart concepts of the nursing processes as they relate to health assessment and health maintenance of the aging person. Principles of history-taking and physical examination and assessment skills are emphasized as they pertain to the aging patient. The focus is directed toward the assessment of physiological, environmental, sociological, and psychological needs in the aging patient.
- 436. PRACTICUM IN HEALTH ASSESSMENT AND HEALTH MAINTENANCE OF THE AGING PATIENT. 3 cr.** A laboratory course designed to apply the concepts of the nursing processes as they relate to the provision of health assessment and health maintenance in the care of the aged. The student is provided an opportunity to elicit and record health histories and to perform physical examinations and health maintenance activities for the aged.
- 438. SPECIAL PROBLEMS IN NURSING. 1-3 cr. Maximum, 6 cr.** Investigative study of special problems by students with particular needs in nursing education, practice, and administration. A. Research; B. Practice; C. Administration; D. Education. Prerequisite: Approval of the Director, School of Nursing.
- 439. CONTINUED STUDIES IN NURSING. 1-3 cr.** Various topics in nursing for students not pursuing a degree. Grades of CR (Credit) or NC (No Credit) will be awarded. Prerequisite: Approval of the Director, School of Nursing.
- 441. PERIOPERATIVE NURSING THEORY. 3 cr.** Advanced course focusing on the study of aseptic technique and care of patients in the operating room/recovery room. Emphasis is placed on perioperative concepts and principles. Prerequisites: 304, 305, 306, or Registered Nurse licensure.
- 442. PERIOPERATIVE NURSING SCIENCE PRACTICUM. 3 cr.** Clinical study designed to apply principles of preoperative, operative, and postoperative nursing skills. Supervised clinical experiences are offered in health care settings that provide surgical procedures. Prerequisites: 304, 305, 306, or Registered Nurse licensure.
- 443. ONCOLOGICAL NURSING THROUGH THE LIFE SPAN. 3 cr.** Designed to expand the use of the nursing process with oncology patients. Malignant diseases most frequently occurring throughout the life cycle are studied. Prerequisites: 304, 305, 306, or Registered Nurse licensure.
- 446. ETHNIC NURSING CARE. 3 cr.** Emphasis is placed on the impact of ethnicity in relation to health behaviors and nursing care. Prerequisite: Approval of the Director, School of Nursing.
- 448. WOMEN'S HEALTH ISSUES. 3 cr.** The study of women's health issues and concerns from a psycho-bio-social perspective. Prerequisite: None.
- 450. CRITICAL CARE NURSING. 3 cr.** The in-depth study of critical care aspects of nursing, including support mechanisms. A. Adult; B. Pediatric; C. MICU; D. SICU; E. PICU; F. NICU; H. Burn; I. Psychiatry; J. Dialysis; K. Emergency; L. Substance Abuse. Prerequisites: 401, 402, 403, Registered Nurse license, or Permission of the Director, School of Nursing.

PHARMACY (PHAR)

For Undergraduates and Graduates

- 404. PUBLIC HEALTH SCIENCE. 2 cr.** Development, scope, and methods employed in public health. Principles of biostatistics, epidemiology, environmental sanitation and the study of major health problems are included.
- 406. COMMUNITY HEALTH EDUCATION. 2 cr.** Development of technologies that facilitate changes in health related behavior that affect individuals, organizations, and social or community systems.
- 409. MEDICINAL CHEMISTRY II. 3 cr.** A study of organic compounds of pharmaceutical and medicinal importance with emphasis on chemical structure, relationship of chemical structure to

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drug action, metabolism, usage, incompatibilities, and synthesis. Prerequisites: 407 or Consent of Department Head. (Formerly Organic Medicinal Chemistry.)

- 410. MEDICINAL CHEMISTRY III. 3 cr.** Continuation of 409. Prerequisite: 409. (Formerly Organic Medicinal Chemistry.)
- 411. Pharmacology I. 3 cr.** Pharmacological, anatomical and physiological basis of drug action. Topics include general principles of therapeutics, pharmacodynamics, pharmacokinetics and toxicology, and the action of drugs in the peripheral nervous system. Prerequisite: First Year Pharmacy Standing, Graduate Student Standing in the College of Pharmacy (nonmajor for non-degree credit only) or by consent of Department Head.
- 412. Pharmacology II. 3 cr.** Continuation of Pharmacy 411 with emphasis on inflammatory and allergic reactions and the central nervous system. Prerequisites: 411; Credit or registration in 436; or Graduate Student Standing in the College of Pharmacy (nonmajor for nondegree credit only) or by consent of Department Head.
- 413. PHARMACOLOGY III. 4 cr.** Continuation of 412 with emphasis on the cardiovascular, renal, endocrine, and central nervous systems. Prerequisites: 407, 412, 436 or Consent of Department Head.
- 414. PHARMACOLOGY IV. 4 cr.** Continuation of 413 with emphasis on the gastrointestinal system, autonomic nervous system, and chemotherapeutic agents. Prerequisites: 413.
- 418. CHEMOTHERAPEUTIC AGENTS. 2 cr.** A study of the chemistry, therapeutic classification, mechanisms of action, toxicity, and spectra of agents currently used in the therapy of infectious and neoplastic diseases. Prerequisites: 408, 412; credit or registration in 409 or Consent of Department Head.
- 419. PHARMACBIOTECHNOLOGY. 3 cr.** Study of the application of biotechnology to pharmaceuticals including drugs, diagnostics, and vaccines. Emphasis is placed on the techniques of biotechnology, recombinant proteins and peptides, monoclonal antibodies, and the physicochemical properties and metabolism of genetically engineered biopharmaceuticals. Prerequisites: 408, 409, and credit or registration in 414, or with Consent of Department Head.
- 423. MEDICAL IMMUNOLOGY. 2 cr.** Cellular and serum immunology. Antibody structure and function. Types of antigen antibody reactions. Immunosuppression, tolerance and enhancement. Systems mediating immunologic injury and inflammation. Immunogenetics. Prerequisites: 408, 412, 436.
- 432. PHARMACEUTICS III. 3 cr.** The interrelationship between formulation factors and pharmacokinetic aspects of drug absorption, distribution, metabolism, and excretion. Prerequisite: 403.
- 453. HEALTH CARE SYSTEMS. 2 cr.** The organization of health care services in the United States, with emphasis on historical development, present characteristics, and future trends.
- 454. LAW. 3 cr.** Local, state and federal laws, rules and regulations relating to the practice of Pharmacy. Prerequisite: Second Year Pharmacy.
- 467. PESTICIDES. 2 cr.** Chemicals and drugs which have important application as insecticides, herbicides, fungicides, and rodenticides. Prerequisite: 413.
- 479. NUCLEAR PHARMACY. 2 cr.** Handling and storage of radioisotopes and their application to pharmacy. The official radiopharmaceuticals and non-official radiopharmaceuticals of merit employed in therapy will be considered. Prerequisite: Second year pharmacy.
- 489. INTRODUCTORY TOXICOLOGY. 3 cr.** Survey of the occurrence, properties and harmful effects of natural and man-made toxic substances in personal, occupational and global environments. Prerequisites: Credit or registration in Zoology 311, 313, and Chemistry 304.
- 496. PHARMACEUTICAL LEGISLATION. 3 cr.** Historical development of pharmaceutical law and its effect on the practice of pharmacy. Prerequisite: 454.

For Graduates Only

- 500. MOLECULAR STRUCTURE AND FUNCTION OF PROTEINS. 3 cr.** This course is designed to introduce graduate students to basic concepts and techniques in the study of protein structure and function. Course coverage will include structural determinants, relationship of structure to function, thermodynamics of protein interactions, protein/ligand interactions, kinetics, transition state theory, enzyme mechanisms and protein purification techniques.
- 502. PRODUCT DEVELOPMENT. 4 cr.** Theoretical and practical aspects involved in the formulation of a pharmaceutical; emphasis on research techniques employed in developing an acceptable medicinal product. Two hours lecture and six hours laboratory. Prerequisites: 432.

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- 513. PHARMACOKINETICS. 3 cr.** A quantitative treatment of the dynamics of drug absorption, distribution, metabolism, and excretion, including the development of mathematical models for these processes. Application of analog and digital computation will be discussed. Prerequisites: Mathematics 301 or 401, and/or Consent of Department Head.
- 514. ADVANCED BIOPHARMACEUTICS. 3 cr.** An advanced treatment of factors affecting drug availability from dosage forms and the influence of the route of administration and the dosage regimen on drug availability. Prerequisite: 513 or Consent of Department Head.
- 515. CLINICAL PHARMACOKINETICS. 3 cr.** The application of pharmacokinetic principles to the safe and therapeutic management of the individual patient. Prerequisites: 432, 439 and/or Consent of Department Head.
- 521. ADVANCED PHARMACOLOGY. 3 cr.** Cellular and molecular mechanisms of drug action. Prerequisites: 413, 414 or consent of Department Head.
- 522. ADVANCED PHARMACOLOGY LABORATORY. 3 cr.** Laboratory techniques used to evaluate drug action. Nine hours laboratory. Prerequisite: Credit or registration in 521.
- 523. FORENSIC TOXICOLOGY. 2 cr.** Quantitative and qualitative toxicological analyses. Six hours laboratory. Prerequisite: 489.
- 525. INDUSTRIAL TOXICOLOGY. 2 cr.** Chemical hazards in the workplace; regulatory and medico-legal programs, product safety, worker health protection, chemical-related health risk assessment. Prerequisite: 489.
- 527. NEUROPHARMACOLOGY. 4 cr.** Advanced discussion of the literature and methodology related to the action of drugs in neurological systems. Prerequisites: 413, 414, or Consent of Department Head.
- 529. IMMUNOPHARMACOLOGY. 2 cr.** A study of the interactions between pharmacologic agents; the immune systems and their biological function. Prerequisites: 414, 423.
- 531. SYNTHETIC MEDICINALS. 3 cr.** A study of the methodologies and strategies used in the synthesis of compounds of pharmacological significance. Prerequisites: Chemistry 531, 532 or Consent of Department Head.
- 532. CHEMISTRY OF HETEROCYCLIC COMPOUNDS. 3 cr.** Chemical and physical properties, nomenclature, and synthesis of heterocycles commonly found in compounds of biological and pharmacological importance. Prerequisites: Chemistry 531, 532, or Consent of Department Head.
- 534-535. NATURAL PRODUCTS. 3 cr. each.** Study of natural products used in medicine, pharmacy and allied fields. Emphasis is placed on isolation, purification and synthetic derivatives. One hour lecture and six hours laboratory. Prerequisite: Consent of Department Head.
- 540. BIostatISTICS. 3 cr.** The theoretical and applied techniques of data collection, analysis, and interpretation in pharmaceutical research. Prerequisite: Psychology 439.
- 541. ADVANCED MARKETING OF DRUG PRODUCTS. 4 cr.** Distributive systems and underlying economic principles, functions, policies, and practice as related to marketing drug products.
- 542. ADVANCED RETAIL PHARMACY MANAGEMENT. 4 cr.** Advanced problems related to planning, organizing, and controlling the retail pharmacy.
- 543. BEHAVIORAL SCIENCES IN PHARMACY ADMINISTRATION. 4 cr.** Psychology, sociology, and communications as related to pharmacy management.
- 544. NEW DRUG DEVELOPMENT. 4 cr.** Professional, administrative and legal requirements for discovery, production and distribution of a new drug.
- 545. RESEARCH METHODOLOGY. 3 cr.** Description and application of the scientific method to social and economic research problems peculiar to the health fields.
- 546. RESEARCH DESIGN. 3 cr.** Design and analysis of research problems in the health care field.
- 547. HEALTH CARE ADMINISTRATION. 3 cr.** A description and analysis of the current health care system in the United States, using economic and administrative concepts and principles. Prerequisite: Consent of Department Head.
- 548. HOSPITAL ADMINISTRATION. 3 cr.** The hospital as a complex health care organization, its nature and functions, personnel and staff behavior, and how it is viewed by its client, the patient. Prerequisite: Consent of Department Head.
- 549. HEALTH CARE LAW. 3 cr.** A study of legal issues pertaining to health care topics such as modes and institutions for providing medical care, liability of selected providers and review of applicable laws, rules, and regulations. Prerequisite: Consent of Department Head.

GRADUATE COURSES 153

- 550. BIOCHEMICAL TOXICOLOGY. 3 cr.** A detailed coverage of biochemical mechanisms of toxicity. Prerequisite: Credit or registration in Toxicology 412 or equivalent.
- 551. DIRECTED STUDY. 1-3 cr. Maximum, 5 cr.** Applicable to all disciplines.
- 552. SEMINAR. 1 cr.** Current developments in pharmaceutical disciplines. Applicable to all disciplines. Attendance required for every graduate student each semester. Not more than 2 cr. applicable to the M.S. degree or an additional 4 cr. toward the Ph.D. degree, not to exceed 6 cr. for the Ph.D. degree.
- 555. FERMENTATION. 3 cr.** Production of medicinal products by microorganisms. Two hours lecture and three hours laboratory.
- 558. ADVANCED CANCER PHARMACOLOGY. 3 cr.** An advanced course presenting the pathophysiology, clinical features, and pharmacology of cancers as well as the latest advances and developments in cancer therapeutics. Prerequisites: Permission of the Instructor.
- 564. PHARMACOGENETICS. 3 cr.** This course will provide students with basic concepts in pharmacogenetics and the role of inheritance on inter-individual variation in drug response. Prerequisites: Pharmacy 411, 412, 432 or consent of Department Head.
- 566. ADVANCED MEDICINAL ANALYSIS. 2 cr.** Advanced analytical procedures; use of new techniques and equipment. Prerequisites: Credit or registration in 568 and Consent of Department Head.
- 568. ADVANCED MEDICINAL ANALYSIS LABORATORY. 2 cr.** A laboratory course to accompany 566. Six hours laboratory. Prerequisite: Credit or registration in 566.
- 569. CONCEPTS IN DRUG DESIGN. 3 cr.** A study of traditional and contemporary approaches to drug design and development. Basic concepts important to receptor-ligand interactions will be introduced. Literature examples will be used to illustrate contemporary methods, such as molecular modeling, QSAR, and combinatorial strategies. Prerequisite: 409 or Consent of Instructor.
- 577. PHARMACEUTICAL PREFORMULATION. 3 cr.** Introduce students to the necessary physico-chemical parameters, determination of kinetic rate profiles, characterization of physical properties, and compatibility with common excipients of new drug substances.
- 578. SOLID-STATE CHEMISTRY OF DRUGS. 3 cr.** This fundamental course on pharmaceutical solids provides a comprehensive, cutting-edge overview of ideas, issues, language, and methodologies of pharmaceutical solid-state research.
- 579. DOSAGE FORM DESIGN. 3 cr.** Theoretical and practical aspects involved in the design of dosage forms including the development of drug molecules and industrial scale manufacturing.
- 580. TOXICOLOGY RESEARCH. 2 cr.** Student participation in ongoing laboratory research to illustrate experimental design and performance. Prerequisite: Open to students enrolled in the non-thesis option Master of Science program in toxicology (pharmaceutical sciences) only.
- 581. ADVANCED TOXICOLOGY. 3 cr.** Cellular mechanisms of adverse chemical effects in biological systems. Areas of emphasis include principles of pathology, genotoxicity, carcinogenicity, teratogenicity and toxic responses of major organ systems. Prerequisites: 415, 489.
- 582. ADVANCED TOXICOLOGY LABORATORY. 3 cr.** Common laboratory techniques used to evaluate chemical toxicity. One hour lecture, six hours laboratory. Prerequisite: Credit or registration in 581.
- 583. SURFACE AND INTERFACIAL PHENOMENA. 3 cr.** This course deals with the fundamentals of surface and interfacial phenomena encountered by pharmaceutical scientists in the development of dosage forms.
- 584. CHEMICAL KINETICS AND STABILITY OF PHARMACEUTICALS. 3 cr.** This course deals with the fundamentals aspects of chemical kinetics applied to the stability of pharmaceutical raw materials and final dosage forms.
- 590. METHODS AND PRINCIPLES OF TOXICOLOGY. 4 cr. each.** Intended to provide the graduate student with hands-on laboratory experience in methods commonly used in A. Neurotoxicology, B. Aquatic Toxicology, C. Immunotoxicology, D. Hepatotoxicology. Prerequisite for A, B, and D: 550 and Consent of Instructor. Prerequisite for C: 408 or 423.
- 599. THESIS. 3, 6, 9, 12 cr.** Applicable to all disciplines. May be repeated for credit. Grades of CR (Credit) or NC (No Credit) will be awarded.

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- 651. ADVANCED DIRECTED STUDY. 1-3 cr. Maximum, 10 cr.** Applicable to all disciplines.
- 699. DISSERTATION. 3, 6, 9, 12 cr.** May be repeated for credit. Grades of CR (Credit) or NC (No Credit) will be awarded. Applicable to all disciplines.

PHILOSOPHY (PHIL)

For Undergraduates and Graduates

- 400. INTERSECTIONS OF SCIENCE AND RELIGION. 3 cr.** This course will cover the issues that have arisen historically and also in the contemporary world in the dialogue of science and religion. Major focus should be given to how these issues and positions have affected our understanding of human nature. Topics that should be covered include: Darwin and the Evolutionary Theory, Creationism, Design, the Origin of the Cosmos, the Big Bang, Quantum Theory and Chance, the Free Will, Miracles and Prayer, and theories of Human Nature in Asian Religions and Christianity.
- 401. ANCIENT AND MEDIEVAL. 3 cr.** Philosophical thought from the Pre-Socratic to the sixteenth century, including Plato and Aristotle, the Epicureans and the Stoics, the Neo-Platonists, and Aquinas; the rise and fall of medieval scholasticism.
- 402. MODERN. 3 cr.** Philosophical thought from the seventeenth century to the present, including rationalism, empiricism, transcendental idealism, pragmatism, logical positivism, and existentialism.
- 403. ETHICS. 3 cr.** A study of the theoretical foundations of morality with reference to approaches to ethical thought, character, and action. Concepts include good and evil, right and wrong, obligations and rights, responsibility and freedom and the application of these concepts to the working out of particular ethical problems. (Same as Govm 403.)
- 404. CONTROVERSIAL ISSUES IN BIOETHICS. 3 cr.** The ethical significance of and ethical dilemmas that arise as a result of new cutting edge biotechnologies. Ethical topics include: reproductive options, abortion, stem-cell research, human cloning, genetic discrimination and confidentiality, genetic engineering, regulation of human research, and euthanasia.
- 405. PHILOSOPHY OF RELIGION. 3 cr.** A study of attempts to bring rational justification and clarification to religious beliefs and practices, focusing primarily on the concepts of Christian theology. Topics will include the existence of nature of God, faith and reason, death and immortality, mysticism, the problem of evil, religious experience, and the impact of existentialism on contemporary religious thought.
- 407. THEORIES OF HUMAN NATURE. 3 cr.** This course will cover the theories of human nature that have arisen historically and also in the contemporary world. Major figures to be covered include Plato, Aristotle, Aquinas, Hobbes, Locke, Hume, Kant, Darwin, Marx, Nietzsche, Freud, Sartre, Maslow, and contemporary psychological theories. This course will answer questions like what is the human being?, what is the purpose of human life?, is the human being basically aggressive or kind?, and how do human beings differ from animals?
- 415. THEORY OF KNOWLEDGE. 3 cr.** A comparative and critical survey of the major theories that deal with the nature and extent of human knowledge and related notions, such as belief, justification, perception, and memory. Classical and contemporary philosophical positions will be covered representing a wide range of theories and their application to other disciplines of human inquiry, such as biology and psychology.
- 491. DIRECTED STUDY. 1-3 cr.** Directed study and/or research in selected areas of philosophy. A. Logic; B. Ethics; C. Ancient, Medieval, and Modern; D. Theory of Knowledge. Prerequisite: Advanced standing, approval of department head, and permission of the instructor.

PHYSICAL SCIENCE (PSCI)

For Undergraduates and Graduates

- 491. SPECIAL TOPICS. 1-6 cr., Maximum, 6 cr.** Special topics in Physical Science for teachers. A. General Physical Science; B. Energy. Prerequisite: Approval of Department Head.

GRADUATE COURSES 155**PHYSICS
(PHYS)****For Undergraduates and Graduates**

- 401. HEAT AND THERMODYNAMICS. 3 cr.** Principles and application of heat transfer and the laws of thermodynamics. Prerequisites: 208; Mathematics 232.
- 405. BASIC PHYSICS LABORATORY. 1 cr.** Classical physics experiments in heat and thermodynamics, mechanics, optics, and electricity and magnetism. Three hours of laboratory. Prerequisites: 315 and 401.
- 406. BASIC PHYSICS LABORATORY. 1 cr.** Modern physics experiments in solid state, atomic and nuclear physics and selected experiments in departmental research areas. Three hours of laboratory. Prerequisite: 405.
- 409. OPTICS. 3 cr.** Principles and applications of geometrical and physical optics. Prerequisites: 208 and credit or registration in Mathematics 232.
- 410. PHYSICS FOR SECONDARY TEACHERS. 3 cr.** Elementary concepts of physics applicable to junior and senior high school science courses. Not applicable toward B.S. or M.S. degree in physics. Prerequisite: Approval of Department Head.
- 412. ELEMENTARY VECTOR FIELDS. 3 cr.** Methods of formulation and solution of problems involving force fields as encountered in physical mechanics and electromagnetic theory. Prerequisites: 208; Mathematics 232.
- 415. MECHANICS. 3 cr.** Rigid bodies, vibrational systems, and advanced general methods. Prerequisites: 315; Mathematics 132.
- 417. ELECTRICITY AND MAGNETISM. 3 cr.** A theoretical treatment of electricity and magnetism with an introduction to electromagnetic wave phenomena. Prerequisites: 317 and credit or registration in Mathematics 232.
- 421. RESEARCH. 1-3 cr.** Research problems that emphasize current progress in physics. Three hours of laboratory work per week per credit hour. Prerequisite: Approval of Department Head.
- 424. ANALOG ELECTRONICS. 3 cr.** Discrete electronic components and circuits using them including resistors, capacitors, diodes, transistors, and operational amplifiers. Prerequisites: 208 and Mathematics 132.
- 426. ANALOG ELECTRONICS LABORATORY. 1 cr.** Basic measurement techniques, filters, power supplies, diodes, transistors, and operational amplifiers. Three hours of laboratory. Prerequisite: Registration or credit in 424.
- 433. INTRODUCTORY QUANTUM MECHANICS. 3 cr.** The development of introductory quantum theory from a phenomenological point of view with applications to atomic physics and chemistry. Prerequisite: Approval of Department Head.
- 491. DIRECTED STUDY. 1-6 cr. Maximum, 6 cr. for undergraduates; Maximum, 3 cr. for graduates.** Investigative and advanced study in: A. Advanced Mechanics, B. Electromagnetic Fields, C. Heat and Thermodynamics, D. Quantum Mechanics, E. Fluid Mechanics. Prerequisite: Approval of Department Head.

For Graduates Only

- 510. PHYSICS FOR SECONDARY TEACHERS. 3 cr.** Advanced concepts of physics applicable to junior and senior high school science courses. Not applicable toward B.S. or M.S. degree in Physics. Prerequisite: Approval of Department Head.

**POLITICAL SCIENCE
(POLS)****For Undergraduates and Graduates**

- 403. ETHICS. 3 cr.** A study of the theoretical foundations of morality with reference to approaches to ethical thought, character, and action. Concepts include good and evil, right and wrong, obligation and rights, responsibility freedom. The application of these concepts to the working out of particular ethical problems. (Same as PHIL 403).
- 406. POLITICAL PARTIES, CAMPAIGNS & ELECTIONS. 3 cr.** Political parties, Campaigns and Elections focuses on three closely related topics and phenomena: parties, campaigns and elections in the American context. We will be seeking to understand their parallel, and in some

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sense, symbiotic development and relationships. We will study the history of party politics in the United States, focusing on change and development in relationship to the dynamic American Republic. Prerequisite: POLS 201.

- 407. WESTERN POLITICAL THEORY. 3 cr.** A study of political theory beginning with Plato and the ancient Greeks and continuing through Middle Ages, Reformation, and Enlightenment to Marx, Mills and the modern age. The central questions of political thought are explored e.g., what is the good?; what is justice?; how is political authority acquired? Where does sovereignty reside? And how do we incur obligations? Prerequisite: POLS 201.
- 413. CONSTITUTIONAL LAW: GOVERNMENTAL POWERS. 3 cr.** A study of the U.S. Constitution through analysis of decisions of the Supreme Court. The cases demonstrate the nature of judicial function, the nature of the federal system, and the scope and character of the process of the national government. Prerequisite: 201 or Approval of Department Head and Permission of the Instructor.
- 414. CONSTITUTIONAL LAW: CIVIL RIGHTS. 3 cr.** A study of the U.S. Constitution through analysis of decisions of the Supreme Court. The cases demonstrate the scope and character of the limitations on governmental powers concerning civil rights such as speech, press, religions, and rights against discrimination. Prerequisite: 201 or Approval of Department Head and Permission of the Instructor.
- 417. PUBLIC ADMINISTRATION AND ADMINISTRATIVE LAW. 3 cr.** Structure and processes of public administration, practices and processes of public administration, practices in personnel, organization and development of administrative law. Prerequisite: 201.
- 418. CONSTITUTIONAL LAW AND CRIMINAL JUSTICE. 3 cr.** Study of constitutional law and its applicability in the criminal justice system. Prerequisite: 201.
- 420. LOUISIANA GOVERNMENT AND POLITICS. 3 cr.** Development and organization of political processes in Louisiana; contemporary problems of Louisiana state and local governments.
- 421. AMERICAN POLITICAL THEORY. 3 cr.** This course focuses on the origin and development of American political thought. Topics include Locke and liberalism, Puritanism and republicanism, Paine and the revolutionary impulse, Founders and Anti-Federalists, Jefferson's agricultural republic, Tocqueville's social America, Jacksonian democracy, Lincoln and Calhoun, populists, progressives and pragmatists, New Dealers and social engineers. Prerequisite: POLS 201.
- 423. AMERICAN URBAN POLITICS. 3 cr.** An analysis of the structure and functions of contemporary city governments with considerable attention devoted to basic problems. Special emphasis on local government in Louisiana.
- 429. WOMEN AND POLITICS. 3 cr.** An examination of the role that women have played in the development of the U.S. political system, including historical analysis of the barriers to women's participation and the impact of politically active women on contemporary issues.
- 433. THE JUDICIAL PROCESS. 3 cr.** Structure, functions, and operations of the judiciary. Prerequisite: 201.
- 440. COMPARATIVE. 3 cr.** The structure, theory, organization, and methods of control in the governments of the major European powers; recent political trends. Prerequisite: 201.
- 441. COMPARATIVE GOVERNMENT AND POLITICS IN LATIN AMERICA. 3 cr.** A comparative survey of governmental institutions and political processes which characterized the Latin American republics from the colonial period to the present.
- 450. AMERICAN FOREIGN POLICY. 3 cr.** Major foreign policies, objectives, and commitments of the United States; their political, economic, and military implications. Policy decisions currently confronting the United States in various areas of the world.
- 453. INTERNATIONAL POLITICS. 3 cr.** The nation-state system, power politics, processes affecting international relations; sources of tension in international politics and possibilities of their peaceful resolution.
- 454. CONGRESS AND THE PRESIDENCY. 3 cr.** A course on two of the three major institutional components of American politics. Main topics include the history of the Congress and Presidency (i.e., the two institution's structural, behavioral and institutional adaptation to a changing America), the internal and external dynamics of public policy production (i.e., how demands arising in the electorate and elsewhere are conveyed to and/or produced within the Congress and the translation of these demands into specific laws and policies), and, the complex interaction between the Congress and the Presidency as different and separate institutions sharing power. Prerequisite: POLS 201.
- 457. CONTEMPORARY POLITICAL THOUGHT. 3 cr.** Political thought of the twentieth century; liberalism, modern totalitarianism, conservatism, Freudianism, existentialism, and democracy.

GRADUATE COURSES 157

- 461. INTERNATIONAL POLITICAL ECONOMY. 3 cr.** A course focused on the intersection of politics and economics in relations among actors in the international environment. Main topics include: international trade strategies; the political strategies of transnational firms; assessment of international organization; the role of the United States in the contemporary global economy. Prerequisite: 201.
- 463. COMPARATIVE POLITICS OF RACE AND ETHNICITY. 3 cr.** International comparative analysis of how political processes both shape and are shaped by racial and ethnic differences, both within and among nation-states. Prerequisite: 201.
- 465. GLOBAL DEVELOPMENT. 3 cr.** Cross-cultural exploration of the processes of economic and political development in different regions and countries of the world, including discussion of globalization and its character and effects in geographical and political settings. Prerequisite: 201.
- 491. DIRECTED STUDY. 1-3 cr.** Directed study and/or research in selected areas of government. A. National, State, and Local; B. Public Administration and Law; C. Political Theory; D. International Relations; E. Comparative; F. Political Processes. Prerequisite: Advanced standing, Approval of Department Head, and Permission of the Instructor.

**PSYCHOLOGY
(PSYC)****For Undergraduates and Graduates**

- 401. ABNORMAL. 3 cr.** Nature of mental and emotional disorders with their underlying determinants. Prerequisite: 201.
- 402. SOCIAL. 3 cr.** Psychological factors and influences in social behavior; the individual in social situations; the influence on social environment in behavior and development. (Same as Sociology 402.) Prerequisites: 201, Sociology 101.
- 403. EXCEPTIONAL CHILDREN AND YOUTH. 3 cr.** Legal definitions and clinical classifications of children and youth who vary from normal (mentally, physically, or emotionally). Emphasis on etiology, identification, and educational service provision in multicultural settings. Prerequisites: 201, 203.
- 405. MENTAL RETARDATION. 3 cr.** Recognition, diagnosis, and etiology of the mental retardation. Emphasis on psychological theories, procedures, and application. Prerequisites: 201, 203.
- 406. PERSONALITY. 3 cr.** Development, dynamics, and processes in the structure of personality. Prerequisite: 201. Students with prior credit in 427 are not eligible to receive credit in 406.
- 407. HISTORY AND SYSTEMS. 3 cr.** The evolution of modern psychology from its historical origins in philosophy and the natural sciences to contemporary systems and theory. Prerequisites: 201 and six hours of psychology above 300.
- 410. HEALTH PSYCHOLOGY. 3 cr.** Behavioral factors in physical illness and maintenance of health; including an examination of research issues, behavioral techniques in treatment, intervention and preventative medicine strategies. Prerequisites: 201, Zoology 205.
- 411. ADVANCED TOPICS. 3 cr.** A study of theoretical issues in experimental and applied areas of psychology. Prerequisite: Twelve hours of psychology.
- 415. INDUSTRIAL. 3 cr.** Application of psychological principles and techniques to problems of industry, with emphasis on employee selection and placement, merit rating, accident reduction, training, measurements, and improvement of morale. Prerequisite: 201.
- 425. PSYCHOLOGY OF ADULTHOOD AND AGING. 3 cr.** Study of physical, intellectual, personality, social and emotional development during the middle and older years of the life span.
- 427. THEORIES OF PERSONALITY. 3 cr.** Survey of the dominant personality theories. Prerequisite: Nine hours of psychology.
- 439. STATISTICS. 3 cr.** Statistical techniques needed in the study, interpretation, and preparation of educational and psychological research.
- 441. PSYCHOLOGY OF CHILD ABUSE. 3 cr.** Identification, treatment, and prevention of child abuse and neglect.

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- 450. EVOLUTIONARY PSYCHOLOGY. 3 cr.** Evolutionary origins of behavior are integrated into a framework of ontogeny and physiology, delineating a modern adaptationist approach to human psychology. Prerequisites: 201, BIOL 226 or equivalent.
- 451. PSYCHOLOGICAL TESTING AND MEASUREMENT. 3 cr.** The theory and rationale underlying the definition and measurement of human traits, abilities, and behaviors. Prerequisite: 439 recommended.

For Graduates Only

- 501. COGNITION. 3 cr.** The study of the thinking processes of normally functioning individuals. Topics will include memory, problem solving, heuristics, creativity, and decision making. Prerequisites: 325, 439.
- 502. SOCIAL COGNITION. 3 cr.** Study of the manner in which people sort, store, and assess information about others. Emphases include causal attributions, social attitudes, person perception, stereotyping, and small group process. Prerequisites: 315, 402, 439.
- 503. ADVANCED CHILD PSYCHOLOGY. 3 cr.** Topical approach to examination of mental, motor, social, and emotional development of children and adolescents. Relevant research and literature regarding normal development, deviations from normal, and multicultural issues associated with the developmental process are presented. Prerequisite: 203. (Formerly Advanced Child.)
- 505. ADVANCED ADOLESCENT PSYCHOLOGY. 3 cr.** Topical approach to examination of mental, motor, social, and emotional development of adolescents. Relevant research and literature regarding normal development, deviations from normal, and multicultural issues associated with the developmental process are presented. Prerequisite: 203 or 205.
- 507. PSYCHOLOGICAL FOUNDATIONS OF LEARNING. 3 cr.** Principles of learning and the experimental evidence upon which they are based, including individual experimentation in learning.
- 508. CLINICAL PSYCHOLOGY. 3 cr.** A survey of the diagnostic instruments, methods, and techniques as they relate to personality theory. Prerequisites: 401, 406.
- 509. INTELLIGENCE TESTING. 3 cr.** Administration and interpretation of intelligence tests, including development and theoretical issues, with a focus on the Wechsler scales and Stanford Binet as well as other tests and methods. Three hours lecture and three hours laboratory. Prerequisites: 451, 515, and Approval of Department Head.
- 511. INDIVIDUAL TESTS. 3 cr.** Training and supervised practice in the administration, scoring, and interpretation of individual tests of intellectual and personality functioning. Emphasis is on the Diagnostic Interview, Exner System Rorschach, Wechsler Scales, Minnesota Multiphasic Personality Inventory, and apperceptive measures. Three hours lecture and three hours laboratory. Prerequisites: 451, 509, 515 and Approval of Department Head.
- 515. PSYCHOPATHOLOGY. 3 cr.** The manifestations of deviant behavior in individuals, and the principles and theoretical models used in the description and interpretations of psychological disorders. Emphasis is on the use and limitations of the Diagnostic and Statistical Manual of Mental Disorders. Prerequisite: 401.
- 518. PSYCHOLOGICAL ASSESSMENT. 3 cr.** Instruction and practice in administration and integrated interpretation of tests and other instruments used in the assessment of individual personality traits and psychopathology. Emphasis is on assessing psychopathology using a combination of techniques. Two hours lecture and three hours laboratory. Prerequisites: 509, 511, and Approval of Department Head.
- 522. QUANTITATIVE METHODS IN THE BEHAVIORAL SCIENCES. 3 cr.** Methods of analysis of variance and covariance, multiple regression, significant parametric and non-parametric tests, and an introduction to experimental design. Two hours lecture and three hours laboratory. Prerequisite: 439.
- 523. RESEARCH METHODS. 3 cr.** Research techniques; collecting, processing, analyzing, and interpreting psychological research. Prerequisites: 315 or 316, and 522. (Formerly 521.)
- 527. PROFESSIONAL SCHOOL PSYCHOLOGY. 3 cr.** Programs, problems, techniques, and ethical considerations of the psychologist in the school. Prerequisite: 509 or 511.
- 528. SEMINAR IN CONTEMPORARY ISSUES IN PSYCHOLOGY. 3 cr. Maximum, 6 cr.** Selected current areas and fields of professional psychology.
- 529. DIRECTED STUDY. 1-3 cr. Maximum, 6 cr.** Individual investigation of selected topics in psychology. Three hours laboratory per credit hour. Prerequisite: Approval of Department Head.
- 531. ANALYSIS OF BEHAVIOR. 3 cr.** An intensive study of the principles of learning and motivation. Prerequisite: 315.

GRADUATE COURSES 159

- 534. THEORIES OF LEARNING. 3 cr.** Classical theories of learning through the year 1952, and developments giving rise to current theoretical perspectives. Prerequisite: 315 or 407.
- 552. BEHAVIOR MODIFICATION. 3 cr.** Emphasis on theory and practice of modification of human behavior.
- 553. BEHAVIORAL INTERVENTION LABORATORY. 1 cr.** Field experience in behavioral assessment and the development and implementation of behavior modification programs. A laboratory course to accompany 552.
- 561. NEUROPSYCHOLOGY. 3 cr.** Anatomical and physiological substrates of behavior. Prerequisite: 303.
- 571. BASIC PSYCHOTHERAPY. 3 cr.** Theories and principles of psychodynamics and techniques employed in changing individual behavior. Prerequisite: Approval of Department Head.
- 581. REMEDIATION OF LEARNING DISABILITIES. 3 cr.** Seminar in contemporary research, practices, and problems concerned with remediation of special learning problems. Prerequisite: 401 or 403.
- 582. PSYCHO-EDUCATIONAL DIAGNOSIS AND INTERVENTION. 3 cr.** Interpretation of individual and group educational tests with implications for the development of individual education programs and other intervention techniques. Prerequisite: 509 or 511 and Approval of Department Head.
- 588. TOPICS IN SCHOOL PSYCHOLOGY. 3 cr. Maximum, 6 cr.** Topics may not be repeated for credit. Issues relative to the delivery of psychological services. Specific topics to include: A. Historical/Legal/Procedural Issues, B. Consultation/Diagnosis/Interventions. Prerequisite: Approval of Department Head.
- 591. PRACTICUM IN PSYCHOLOGY. 1-6 cr. Maximum, 6 cr.** Supervised experience in various fields of psychology. Prerequisite: Approval of Department Head.
- 592. INTERNSHIP IN PSYCHOLOGICAL SERVICES. 3-6 cr. Maximum, 12 cr.** Students are placed in approved institutional settings where they work full time. Prerequisite: Approval of Department Head.
- 597. INDEPENDENT RESEARCH. 3-6 cr.** Design, execution, and manuscript preparation of research suitable for submission for publication in a specified professional journal. Prerequisite: Approval of Department Head.
- 599. THESIS. 1-6 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.

**QUANTITATIVE METHODS
(QMDS)****For Undergraduates and Graduates**

- 411. OPERATIONS RESEARCH. 3 cr.** Operations research techniques including linear programming, dynamic programming, game theory, queuing theory, Monte Carlo method and simulation with emphasis on applications to manufacturing, marketing, and financial management problems. Prerequisite: 210.

**READING
(READ)****For Undergraduates and Graduates**

- 418. READING IN THE CONTENT AREA. 3 cr.** A study of the methods, materials, and practices which contribute to making an effective application of reading skills in the subject matter areas. A. For Secondary Teachers; B. For Elementary Teachers. Prerequisite: Approval of Instructor. For graduate credit, a valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 419. SURVEY OF READING. 3 cr.** Basic course in teaching reading; introduction to methods and materials; and survey of contemporary problems. Prerequisite: Approval of Instructor. For graduate credit, a valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 420. TEACHING READING TO ADULTS. 3 cr.** Procedures and materials currently in use for teaching reading to adults. Prerequisite: For graduate credit, a valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.

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- 481. CONTINUING STUDIES IN READING. 1-3 cr.** Various topics in reading. May be repeated. Credit may not be applied toward a degree. Grade of CR (Credit) or NC (No credit) will be awarded.

For Graduates Only

- 501. TEACHING READING TO STUDENTS WITH SPECIAL NEEDS. 3 cr.** Designed to study students' special instructional needs in reading. The aspects of identification, diagnosis of reading needs, specialized methods of instruction, appropriate materials and modifications in reading are considered. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator. (Same as SPED 501).
- 502. BALANCED READING INSTRUCTION. 3 cr.** Integration of reading, writing, speaking, and listening strategies to teach children to read with fluency and comprehension and to expand reading abilities. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 507. PRACTICUM IN READING. 3 cr.** Clinical/laboratory experience in diagnosing and correcting reading difficulties. Credit or registration in 525. Prerequisite: Approval of Director of Field Experiences. Must meet all other eligibility requirements for Louisiana Teaching Certificate in field of study to earn graduate credit and grade.
- 508. CURRICULUM AND SUPERVISION IN READING. 3 cr.** Selecting and planning a sound reading curriculum; understanding the functions and duties of the reading supervisor. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 509. SELECTED TOPICS IN READING. 3 cr. Maximum, 12 cr.** Workshop in Reading covering current topics relevant to the reading teacher. A. Organizational Patterns; B. Methods and Materials; C. Word Identification Techniques; D. Comprehension Skills; E. Diagnosis and Evaluation.
- 518. CRITICAL THEORIES AND CHILDREN'S YOUNG ADULT LITERATURE IN THE CLASSROOM. 3 cr.** Investigation in writings for children and young adults with emphasis on broad application in teaching. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator. (Same as Elementary Education 518.)
- 525. DIAGNOSIS AND CORRECTION OF READING DIFFICULTIES. 3 cr.** Use of diagnostic tests; methods used in diagnosing and correcting reading difficulties. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 540. PRIMARY LITERACY. 3 cr.** Strategies for integrating reading, writing, spelling, speaking, listening, and locating in a balanced literacy program for primary grades (K-3).

SCIENCE (SCIE)

For Graduates Only

- 501. SCIENCE FOR ELEMENTARY TEACHERS. 3 cr.** Topics in biological, physical, and earth science appropriate to the elementary classroom. Prerequisite: Approval of Department Head.
- 591. SPECIAL TOPICS. 3 cr. Maximum, 9 cr.** Special topics in science for elementary, junior high and senior high school teachers: A. Biology; B. Chemistry; C. Earth Science; D. Physics; E. General Science. Prerequisite: Approval of Department Head.

SOCIAL WORK (SOCW)

For Undergraduates and Graduates

- 401. THE CHILD AND THE COMMUNITY. 3 cr.** Examines the common and particular needs of children in the community, social welfare services, and resources developed by communities for the care and training of children.
- 403. FAMILY VIOLENCE AND SOCIAL WORK PRACTICE. 3 cr.** Identifies the four major kinds of violence within families; assesses the dynamics and complex issues associated with family violence and their implication for the social worker; looks at current local, state, and national efforts to resolve the problem. Emphasis is on an overview of treatment and prevention programs for victims and perpetrators of domestic violence.

GRADUATE COURSES 161

- 405. DIFFERENTIAL DIAGNOSIS. 3 cr.** An organized introduction to and synopsis of the criteria for the individual diagnoses in the most current version of the DSM as it relates to the functionality of human behavior in the context of diverse social systems. Prerequisites: Psychology 201 and 401.
- 406. CHILD ABUSE AND NEGLECT. 2 cr.** Defines the abused and neglected child and family and examines the dynamics associated with dysfunctional families. May not receive credit for 406 and 408. (Formerly Seminar in Child Abuse and Neglect.)
- 408. CHILD ABUSE RECOGNITION AND TREATMENT. 3 cr.** Defines the abused and neglected child; examines the dynamics associated with dysfunctional families and multi-level treatment approaches for the abused child and abusive parents. May not receive credit for 406, 408 and Psychology 441. (Formerly 406 and 407.)
- 410. HUMAN SERVICES IN A RURAL ENVIRONMENT. 3 cr.** An examination of human services in a rural environment, the social and cultural factors affecting the delivery system, and the skills and resources needed by the helping professional to be more effective in working with the rural individual, family, group, and community.
- 411. SOCIAL WORK PRACTICE WITH THE ELDERLY. 3 cr.** An introduction to the social, economic, and psychological dimensions of aging using a person-in-environment approach. (Same as GERO 411).
- 417. SOCIAL WORK ADMINISTRATION. 3 cr.** Study of organization and administrative practices utilized in public agencies for expediting services offered to the public. Emphasis on planning, programming, budgeting, public relations, interpretation of social policy, decision making, and legislation. Prerequisite: Approval of Program Director.

**SOCIOLOGY
(SOCL)****For Undergraduates and Graduates**

- 402. SOCIAL PSYCHOLOGY. 3 cr.** Significant effects of group membership on individual behavior; the basic importance of language and the socialization process; social change and mass behavior. Prerequisite: 101 or Psychology 201. (Same as Psychology 402.)
- 404. MEDICAL SOCIOLOGY. 3 cr.** An analysis of man's adaptation to illness, the sick role, social organization of medical institutions, and the sociology of death.
- 405. THEORIES OF CRIME AND DELINQUENCY. 3 cr.** An analysis of the extent of crime and delinquency; impact of crime and delinquency on society; physical, social, and psychological causation of crime and delinquency; and current issues in criminology. (Same as Criminal Justice 405.) (Formerly Criminology.)
- 406. RELIGION AND SOCIETY. 3 cr.** A study of structure and functions of religion and its effect on society, culture, and personality, a comparative analysis of religion; and an examination of religion in America based on sociological research.
- 407. POPULATION AND SOCIETY. 3 cr.** Problems of the quantity and quality of the population, including composition, differential fertility, population pressure, internal migration, regional and class differentials, and trends.
- 412. MINORITY GROUPS. 3 cr.** An analysis of the structure, culture, and social processes of ethnic, racial, social and religious groups in America. (May be offered in non-traditional modes.)
- 415. JUVENILE DELINQUENCY AND JUSTICE. 3 cr.** The nature, extent, and causes of juvenile delinquency; factors in its treatment and prevention, including community and agency programs; and analysis of the legal system as it applies to juveniles. (Same as Criminal Justice 415.) (Formerly Juvenile Delinquency.)
- 419. THE FAMILY. 3 cr.** The past and present role of the family as the primary social group in our culture; problems facing the modern family in a changing social world. (Same as Sociology 300D.)
- 422. ANTHROPOLOGY OF LATIN AMERICA. 3 cr.** Description of indigenous social organizations prior to conquest. Survey of community ethnographic studies of African, Amerind, Asiatic and European cultures in contemporary rural and urban Latin America. Prerequisite: 307 or approval of department head. (Same as Anthropology 422. Formerly Latin America: Peoples and Institutions.)
- 424. WOMEN AND AGING. 3 cr.** Examines the life experiences of women as they age. Emphasis is on sociological influences on perceptions of aging among women and on aging women's roles in society. (Same as Gerontology 424.)
- 425. SEMINAR IN DEATH AND DYING. 3 cr.** Exploration of the social organization of dying, including a view on cross-cultural perspectives on death, treatment of the dying patient, and the grief process. (Same as Gerontology 425.)

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- 430. BELIEF SYSTEMS. 3 cr.** The relationship between pre-literate belief systems and social structure; myths of creation, life cycle crisis, rites of passage, purity and pollution, witchcraft and supernatural illness. (Same as Anthropology 430.)
- 435. ANTHROPOLOGY OF SEX ROLES. 3 cr.** An analysis of different values that define appropriate masculine and feminine behavior (sex roles) in a variety of cultures. Explores the impact of social institutions on teaching and enforcing sex roles in traditional and modern societies. (Same as Anthropology 435.)
- 442. FIELD STUDIES OF FOREIGN AREAS. 3 cr.** Extended field study tours of major foreign areas of the world. A. Western Europe; B. Northern Europe; C. South Pacific. Topics may not be repeated. (No more than 3 credit hours may be applied toward degree requirements.)
- 443. SOCIOLOGY OF SPORTS, RECREATION, AND LEISURE. 3 cr.** The structure and functions of sports and recreation in fulfilling leisure pursuits in American society.
- 444. FIELD STUDIES OF FOREIGN AREAS. 3 cr.** Extended field study tours of major foreign areas of the world. A. Far East; B. Middle East; C. South America. Topics may not be repeated. (No more than 3 credit hours may be applied toward degree requirements.)
- 445. REGIONAL FIELD STUDY OF THE U.S.—EAST. 3 cr.** Daily lectures guide the observation and study of the geographic and cultural experiences, which result in regional delineations and classifications.
- 446. REGIONAL FIELD STUDY OF THE U.S.—WEST. 3 cr.** Same as 445, except that the tour will cover the western area of the U.S.
- 450. SOCIAL RESEARCH. 3 cr.** The formulation of a research problem; ethics of research; development of research design; sampling procedures; collecting and processing of research data.
- 451. SOCIAL STATISTICS. 3 cr.** Statistical procedures appropriate to the measurement and analysis of social data. Prerequisite: Approval of Department Head.
- 452. QUALITATIVE RESEARCH 3 cr.** Examines the conceptualization; selection and protection of participants; data collection, analysis, and presentation; ethical issues; and strengths and weaknesses of qualitative research. (Same as GERO 452)
- 455. SOCIOLOGY OF BALANCED LIVING. 3 cr.** This course is designed to study the factors influencing the socialization process, dynamics of relationships, and life satisfaction. Focus is on making choices and meeting challenges based on understanding of the interaction process and life skills training.
- 495. SPECIAL TOPICS. 1-6 cr. Maximum, 6 cr.** A. Teaching Children about Aging; B. Anthropological Methods; C. Sociology of Women; E. Perspectives on Sexuality. Maximum, 3 credits on a single topic.

For Graduates Only

- 501. SOCIOLOGY OF EDUCATION. 3 cr.** The development, structure, and function of educational institutions with an emphasis on social factors which affect these institutions and the role of the educator in the community.
- 502. LIFESTYLES ISSUES AND RESOURCE MANAGEMENT IN AGING. 3 cr.** A sociological investigation into leisure activities among the aged, issues in pre-retirement and retirement, managing resources, holistic health and lifestyle changes, nutrition, and stress reduction. (Same as Gerontology 502.)
- 509. HUMAN RESOURCES FOUNDATIONS IN GERONTOLOGY. 3 cr.** The sociological importance of human resources to the achievement of goals in gerontological organizations. Focuses on developing and using skills necessary for managing human resources.
- 512. SOCIAL GERONTOLOGY. 3 cr.** An examination of social aspects of adjustment to aging, attitudes toward aging, social-psychological and sociological theories of aging, successful aging, family patterns, intergenerational relationships, leisure, and retirement. Attention will be given to demographic changes, middle age, minority aged, and adult socialization. (Same as Gerontology 512. Formerly Sociology 510 - Sociology of Aging.)
- 555. SOCIOLOGY OF LAW. 3 cr.** An analysis of social behavior and its relationship to the development of law; law as a control mechanism; social behavior as it relates to the police, courts, and corrections; portrayal of the Criminal Justice system components in the media; and social change and the law. (Same as Criminal Justice 555.)
- 565. COMMUNITY-BASED AND LONG-TERM CARE. 3 cr.** A review of the various types of community based care with attention to the types of environments and services offered, the process of entry into care systems, physical and socio-emotional care, relations between residents and staff members, and social relationships inside and outside of care facilities. Health and quality of care, medical ethics, environmental health, and the delivery of services are addressed. (Same as Gerontology 565. Formerly Introduction to Long-Term Care.)
- 567. PROGRAMS AND PUBLIC POLICY. 3 cr.** Analysis of the Older American's Act, national and state programs on aging, and other legislative/congressional acts: their effects on research, training, and grant development in the field of gerontology. (Same as Gerontology 567. Formerly Analysis of Programs and Practice in the Aging Network.)

GRADUATE COURSES 163

- 575. RESEARCH IN GERONTOLOGY. 3 cr.** Integration and application of research designs used in gerontology; examines the impact of research on programs, policy, and planning; attention given to grant writing for research support. Prerequisite: Undergraduate methods course or Approval of Gerontology Graduate Coordinator. (Same as Gerontology 575.)
- 576. MINORITIES, CRIME, AND CRIMINAL JUSTICE. 3 cr.** Examination of the role of minorities in the criminal justice system; as victims; as offenders; as defendants; as prisoners; as employees, and as professionals. (Same as Criminal Justice 576)

**SPANISH
(SPAN)****For Undergraduates and Graduates**

- 402. SEMINAR IN SPANISH LITERATURE. 3 cr. Maximum, 6 cr.** In-depth study and analysis of a specific Spanish language literary movement or writer. Prerequisite: 202 or 205.
- 405. ADVANCED ORAL LANGUAGE DEVELOPMENT. 3 cr. Maximum, 6 cr.** The refinement of conversational skills utilizing the Language Learning Center and classroom activities. Prerequisite: 202 or 205.
- 406. ADVANCED SPANISH SYNTAX. 3 cr.** An analysis of the more complex and problematic areas of Spanish grammar and vocabulary usage. Prerequisite: 231 or equivalent.
- 407. CONTEMPORARY LATIN AMERICAN LITERATURE. 3 cr. Maximum, 6 cr.** An analysis and discussion of outstanding works from the Spanish American literature of the twentieth century. Prerequisite: 202 or 205 or equivalent.
- 408. CONTEMPORARY HISPANIC LITERATURE IN THE UNITED STATES. 3 cr.** An analysis and discussion of outstanding works of Hispanic writers of the U. S. Prerequisite: 202 or 205.
- 415. CONTEMPORARY SPANISH LITERATURE. 3 cr.** Extensive reading of authors of the Generation of 1898 and of the Twentieth Century. Prerequisite: 202 or 205.
- 425. SPANISH LANGUAGE PRACTICUM. 3-12 cr.** Application of language skills in a foreign-speaking environment. Student will be involved in a total-immersion living situation and will receive a minimum of fifteen clock hours per week in formal language instruction. May be repeated with permission of department head. Prerequisite: 202 or 205.
- 474. SECOND LANGUAGE ACQUISITION. 3 cr.** The application of second language acquisition theory in the classroom.
- 475. LANGUAGE, CULTURE & CLASSROOM. 3 cr.** The application of second language acquisition theory in the elementary or secondary classroom (same as French 475). Prerequisite: Spanish 474.

For Graduates Only

- 521. PROSE AND POETRY OF THE SPANISH GOLDEN AGE. 3 cr.** Analysis and discussion of outstanding works of Sixteenth and Seventeenth Century Spain. Prerequisite: Graduate standing in Spanish.

**SPECIAL EDUCATION
(SPED)****For Undergraduates and Graduates**

- 481. CONTINUING STUDIES IN SPECIAL EDUCATION. 1-3 cr.** Various topics in special education. May be repeated. Credit may not be applied toward a degree. Grade of CR (Credit) or NC (No Credit) will be awarded.
- 491. DIRECTED STUDY. 1-6 cr.** Focused investigation on selected problem areas in Special Education. Prerequisite: Approval of Instructor.

For Graduates Only

- 501. TEACHING READING TO STUDENTS WITH SPECIAL NEEDS. 3 cr.** Designed to study students' special instructional needs in reading. The aspects of identification, diagnosis of reading needs, specialized methods of instruction, appropriate materials and modifications in reading are considered. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator. (Same as READ 501).

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- 502. DIAGNOSTIC/PREScriptive TEACHING. 3 cr.** Diagnostic/prescriptive processes to meet educational needs of exceptional children. Formal testing, curriculum-based assessment and teaching, and translation of needs into educational programming. Prerequisite: 561 or Approval of Department Head; valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 503. METHODS OF CLASSROOM ORGANIZATION AND MANAGEMENT FOR SPECIAL POPULATIONS. 3 cr.** Legal, philosophical, and cultural strategies of classroom organization and behavior management for meeting the needs of diverse groups of students with exceptionalities. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator. (Formerly SPED 444 Humanistic Approaches to Teaching the Mild/Moderate.)
- 504. ASSESSMENT STRATEGIES AND PRACTICUM: EARLY INTERVENTION. 3 cr.** Designed to introduce technique and literature pertinent to the developmental assessment of pre-school children with special needs. Emphasis will be placed upon the use of naturalistic observation, criterion curriculum and data from norm-referenced devices for the generation of program description (IEP's) for this population. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 505. METHODS OF TEACHING BASIC SUBJECTS TO STUDENTS WITH MILD/MODERATE DISABILITIES. 3 cr.** Designed to develop competencies of educators in teaching basic skills to special needs students as well as developing appropriate interventions plans. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator. (Formerly 570E. Seminar on "Best Practices" in Special Education: Curriculum Adaptations.)
- 506. VOCATIONAL AND TRANSITION SERVICES FOR STUDENTS WITH DISABILITIES. 3 cr.** Designed to build competencies of educators in developing appropriate individual transition plans and facilitate transition of special needs students into the work force. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator. (Formerly 570B. Seminar on "Best Practices" in Special Education: Secondary Vocational Skills.)
- 507. BEHAVIOR MANAGEMENT & CLASSROOM ORGANIZATION FOR INDIVIDUALIZED NEEDS OF SPECIAL LEARNERS. 3 cr.** This course focuses on methods and techniques for effective behavior management and classroom organization to meet the unique needs of students with exceptionalities.
- 525. FOUNDATIONS OF EARLY CHILDHOOD SPECIAL EDUCATION. 3 cr.** An introduction to the history, trends and programs for the preschool child, ages birth through five, who is at-risk for or has an identified special need. Prerequisite: 202 or equivalent. Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 526. METHODS AND PRACTICUM: EARLY INTERVENTION. 3 cr.** Techniques in organizing and teaching curriculum methods and instructional patterns effective in intervention and training for preschool children at-risk for learning difficulties. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 527. EXCEPTIONAL FAMILY SYSTEMS AND COMMUNITY RESOURCES. 3 cr.** Exposes the learner to the array of variables which (1) effect family systems when a child with special needs is introduced into it and (2) promote an understanding, as a professional, of strategies and timing for effective introduction of resources and support to parents of children with special needs. Prerequisite: 526 or equivalent.
- 528. PHYSICAL AND MEDICAL MANAGEMENT OF PRESCHOOL CHILDREN WITH SPECIAL NEEDS. 3 cr.** Techniques in organizing and teaching materials, and procedures appropriate to understanding severe physical disability and low incidence exceptionalities and health impairments in preschool children. Prerequisite: 526 or Permission of Instructor. Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 529. INTERAGENCY AND INTERDISCIPLINARY TEAMING. 3 cr.** Designed to provide information, skills, and strategies necessary for interventionists working in a collaborative/teaming service provision structure. Prerequisite: 527 or Permission of Instructor. Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator. (Same as Counseling 529.)
- 530. PRACTICUM IN EARLY INTERVENTION. 3-6 cr. hrs.** A supervised experience working with infants and toddlers and preschoolers with special needs. Must meet all other eligibility requirements for Louisiana Teaching Certificate in field of study to earn graduate credit and grade. Prerequisite: Approval of Director of Field Experiences. (Formerly SPED 476-K.)
- 531. TEAM & PHYSICAL MANAGEMENT IN EARLY INTERVENTION. 3 cr.** This course is designed to present the techniques and materials appropriate for preschool children with severe physical disabilities.
- 545. EDUCATIONAL TECHNIQUES FOR EXCEPTIONAL CHILDREN IN REGULAR CLASSROOMS. 3 cr.** Analysis of the instructional needs of exceptional children and the application of

GRADUATE COURSES 165

- instructional strategies and curricular modifications within regular classroom. A. Elementary; B. Secondary. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator. (Same as Elementary Education 545.) Summer I only
- 550. EFFECTIVE CONSULTATION. 3 cr.** Designed to build competencies of educators in consultation skills with educational administrators, ancillary personnel, teachers, parents, students, and other professionals. (Same as Counselor Education 550.) Sp
- 561. ASSESSMENT STRATEGIES AND PRACTICUM. 3 cr.** Types of clinical tests, their uses, and interpretation of results with emphasis on problems of evaluating exceptional children. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator. Fall, even years; Sum I, odd years
- 562. PRACTICUM IN MILD/MODERATE DISABILITIES. 3-6 cr. hrs.** A supervised experience in assessing and instructing students with mild/moderate disabilities. Prerequisites: Approval of Director of Field Experiences. Must meet all other eligibility requirements for Louisiana Teaching Certificate in field of study to earn graduate credit and grade. (Formerly SPED 476-I.)
- 563. SPECIAL EDUCATION ORGANIZATION AND ADMINISTRATION. 3 cr.** Organization, administration, supervision and evaluation of special education personnel and programs. Sum II
- 564. STUDENT TEACHING FOR SPECIAL EDUCATION. 9 cr.** Focused teaching utilizing a cooperating teacher mentorship procedure. Prerequisite: Approval of Director of Field Experiences. Must meet all other eligibility requirements for Louisiana Teaching Certificate in field of study to earn graduate credit and grade.
- 565. READINGS AND RESEARCH IN SPECIAL EDUCATION. 3 cr.** Guided review and synthesis of current "Best Practices" literature in special education: meta-analysis and professional writing emphasis.
- 566. MILD/MODERATE SITE BASED INTERNSHIP. 3 cr.** This course is designed to provide candidates the opportunity to apply requisite knowledge, skills, and dispositions to authentic instructional environments for students with special needs
- 567. COUNSELING PARENTS OF CHILDREN WITH SPECIAL NEEDS 3 cr.** State of the art techniques and methods for facilitating acceptance and pro-active planning by family members for the education and training of their children with special needs. Fall, even years
- 570. SEMINAR ON "BEST PRACTICES" IN SPECIAL EDUCATION. 3 cr. Maximum, 9 cr.** A study of contemporary trends, practices and strategies used with special children. A. Gifted and Talented; C. Pre-School Children with Special Needs; D. Litigation and Legislation; (Sp, even; Sum I, odd); F. Generic Disabilities.
- 571. ADVANCED DIAGNOSIS OF EXCEPTIONAL LEARNERS. 3 cr.** Designed for advanced study of tests, techniques, and methods specific to diagnosis of learner peculiarities of exceptional children. Emphasis is placed on administration, interpretation and the formulation of appropriate education programs. An array of testing procedures will be addressed. Prerequisite: 561 or Counseling 562 or Psychology 451. Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 572. PRACTICUM IN ADVANCED EDUCATIONAL ASSESSMENT. 3-6 cr. hrs.** A supervised experience in assessing and identifying students with special needs. Prerequisites: Approval of Director of Field Experiences. Must meet all other eligibility requirements for Louisiana Teaching Certificate in field of study to earn graduate credit and grade. (Formerly SPED 476-F.)
- 574. DEVELOPING CREATIVITY IN THE CLASSROOM. 3 cr.** An examination of the theoretical and practical nature of creativity and techniques to develop and nurture creativity in the classroom. The course is designed for teachers of gifted children, general education teachers, counselors and/or administrators. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 575. LEARNING CHARACTERISTICS OF GIFTED STUDENTS. 3 cr.** Designed to assist in the identification of the characteristics and motivational needs of the gifted learner. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 576. METHODS AND MATERIALS FOR TEACHING GIFTED AND TALENTED. 3 cr.** Designed to present methods of instruction, curriculum development and materials appropriate to the needs of gifted students in the regular and special class. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 577. GIFTED AND TALENTED PRACTICUM. 3-6 cr.** A supervised experience with gifted children. Must meet all other eligibility requirements for Louisiana Teaching Certificate in field of study to earn graduate credit and grade. Prerequisites: 575, 576 and approval of Director of Field Experiences.
- 578. SOCIAL AND EMOTIONAL NEEDS OF GIFTED LEARNERS. 3 cr.** This course will examine the theoretical and instructional nature of students' affective needs. It is for education personnel responsible for gifted learners. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.

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591. **DIRECTED STUDY. 1-6 cr.** Focused investigation on selected problem areas in Special Education. Prerequisite: Approval of Instructor.
599. **THESIS. 1-6 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.

SPEECH-LANGUAGE PATHOLOGY (SPLP)

For Undergraduates and Graduates

417. **PHONETICS. 3 cr.** Correct sound formation and pronunciation; learning of transcription rules for American phonetics and other sound classification systems.
418. **LABORATORY. 1 cr.** A laboratory course to accompany 417. Two hours laboratory. Prerequisite: Credit or registration in 417, or Approval of Department Head.
426. **DIAGNOSIS AND APPRAISAL OF COMMUNICATION DISORDERS. 3 cr.** Instruments, procedures, and report writing skills utilized in diagnosing and reporting speech, language, and hearing disorders. Prerequisite: 113 or Consent of Instructor.
427. **DIAGNOSIS AND APPRAISAL OF COMMUNICATION DISORDERS LABORATORY. 2 cr.** A practicum developing the skills to administer, score, and interpret tests of articulation and language. Credit or registration in 426 or Approval of Department Head.
428. **ARTICULATION DISORDERS. 3 cr.** Types, causes, symptoms, and therapy for articulatory defects in speech. Credit or registration in 417.
429. **VOICE AND FLUENCY DISORDERS. 3 cr.** Types, causes, symptoms and therapy for voice and fluency disorders
431. **STUTTERING. 3 cr.** Review of modern theories and therapies of stuttering, nature, causes, diagnosis, and treatment of stuttering.
433. **LANGUAGE PATHOLOGY. 3 cr.** Language acquisition, language disorders of reception and expression, and habilitation methodologies in learning. Prerequisite: 152 or Consent of Instructor.
435. **CLINICAL PROCEDURES AND OBSERVATIONS. 3 cr.** Provides students with principles of managing communicatively disordered clients with supervised observation of diagnostic and therapy sessions.
436. **MANUAL COMMUNICATION. 3 cr.** An introductory course in manual communication of the hearing impaired. Emphasis on drills and exercises to help students acquire a sign vocabulary fluency.
445. **CLINICAL COUNSELING. 3 cr.** Issues related to counseling culturally diverse persons with communication disorders and their families. Prerequisite: Permission of Instructor.
480. **AUDIOLOGY. 3 cr.** Principles and techniques of auditory testing and the interpretation of hearing tests.
485. **AURAL REHABILITATION. 3 cr.** Professional services and procedures facilitating adequate receptive and expressive communication in persons with hearing impairments.
490. **NEUROPHYSIOLOGICAL BASES FOR COMMUNICATION. 3 cr.** Provides students with principles of anatomy and physiology of the normal neurological system as related to language and speech systems. Prerequisite: 240.

For Graduates Only

505. **RESEARCH IN SPEECH-LANGUAGE PATHOLOGY. 3 cr.** A quantitative and qualitative study of research which prepares graduate students majoring in speech-language pathology to critically read, evaluate and generate research in speech-language pathology, including historical, descriptive and experimental processes, statistical and research designs, sampling procedures, collecting and processing research data, and disseminating research.
520. **SEMINAR IN ARTICULATION. 3 cr.** A study and comparison of contemporary theories of Distinctive Feature Analyses, Phonological Rule Systems, and Traditional Articulation Developments. Emphasis is on the theories as related to articulation remediation
525. **CURRENT TOPICS IN STUTTERING RESEARCH AND REMEDIATION. 3 cr.** Intensive study of research related to theories of disfluent speech and current management of stuttering behaviors.
528. **SEMINAR IN COMMUNICATIVE LANGUAGE DISORDERS IN CHILDREN. 3 cr.** Intensive study of research literature in childhood language disorders. Emphasis is on student readings, discussions, analyses, and practical therapeutic application of current language theories.

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- 530. SEMINAR IN SPEECH/LANGUAGE PATHOLOGY: DIAGNOSTICS. 3 cr.** Selected topics and evaluative instruments pertaining to the diagnosis of speech-language pathology.
- 542. SEMINAR IN VOICE DISORDERS. 3 cr.** An advanced study of voice disorders associated with organic laryngeal pathologies, neurologic, disease, and psychogenic disorders including their perceptual/instrumental identification and management.
- 550. NEUROLOGICAL DISORDERS I-INTRODUCTION AND IDENTIFICATION. 3 cr.** The study of the neuropathologies and communication disorders associated with neurological impairments such as aphasia, apraxia, closed head injury, dysarthria, right hemisphere impairment, and degenerative diseases.
- 552. NEUROLOGICAL DISORDERS II-EVALUATION AND MANAGEMENT. 3 cr.** The study of evaluation and management strategies for neurological disorders such as aphasia, apraxia, closed head injury, dysarthria, right hemisphere impairment, and degenerative diseases. These disorders are introduced in Neurological Disorders I (SPLP 550). Prerequisite: 550.
- 560. SEMINAR IN AUGMENTATIVE/ALTERNATIVE COMMUNICATION FOR PERSONS WITH SEVERE EXPRESSIVE DISORDERS. 3 cr.** Emphasis is upon research applications and clinical demonstrations of augmentative and alternative strategies and techniques for cerebral and neurological disorders as they affect speech production for speaking and non-speaking individuals.
- 561. SEMINAR IN OROPHARYNGEAL INVOLVEMENT. 3 cr.** Emphasis is upon evaluation/diagnosis and management of oropharyngeal dysphagia in pediatric to geriatric populations as well as research and clinical applications for cleft involved persons. (Formerly Seminar in Speech Habilitation for Persons with Cleft Palate.)
- 570. SEMINAR IN THE PROFESSION. 3 cr.** Education related to employment in different professional settings including ethics, policies, and procedural safeguards. Prerequisite: Permission of Instructor.
- 576. PRACTICUM—SITE I. 1-6 cr.** Clinical practicum with individuals with speech-language pathology in on-campus clinic. Students must accumulate the clinical clock hours required by the American Speech-Language-Hearing Association. Practicum for this course must be at a site different from that used for SPLP 581, 582, and 586. Prerequisite: Permission of Instructor and 25 hours of supervised observation, and completion of speech, language, and hearing screening test.
- 577. AUDIOLOGY ISSUES FOR THE SPEECH-LANGUAGE PATHOLOGIST. 3 cr.** Current audiology procedures/issues pertinent to speech-language pathology including hearing screening, amplification, assistive listening devices, auditory processing disorder (APD), and management options for cochlear implant recipients. Prerequisite: 151, 480, and 485 or Permission of Instructor.
- 579. PEDIATRIC AUDIOLOGY. 3 cr.** The principles of audiological assessment and rehabilitation of the pediatric population. Prerequisite: 480 or equivalent.
- 581. INTERNSHIP-SCHOOL SITE. 1-6 cr.** Students are assigned to work with individuals with communication disorders at approved settings. The student must accumulate the clinical clock hours required by the American Speech-Language-Hearing Association. Practicum for this course must be at a site different from that used for SPLP 576 and 586. Prerequisite: 576 and Permission of Instructor.
- 586. INTERNSHIP-MEDICAL/REHABILITATION SITE. 1-6 cr.** Students are placed in approved off-campus settings to work with individuals with communication disorders. The student must accumulate the clinical clock hours required by the American Speech-Language-Hearing Association. Practicum for this course must be at a site different from that used for SPLP 576 and 581. Prerequisite: 576 and Permission of Instructor.
- 591. RESEARCH PROJECT. 1-6 cr.** Individual study in A. Speech Pathology; B. Language Pathology; C. Audiology. Maximum of 6 hours of Directed Study can be applied to any graduate degree. Prerequisite: Approval of Department Head
- 596. CLINICAL SUPERVISION IN SPEECH-LANGUAGE PATHOLOGY. 3 cr.** The principles of supervision and the application of supervisory processes in speech-language pathology for students, support personnel, and new and experienced professionals. Prerequisite: Previous clinical experience.
- 599. THESIS. 1-6 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.

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SUBSTANCE ABUSE COUNSELING (SUBA)

For Graduates Only

- 525. SUBSTANCE ABUSE COUNSELING. 3 cr.** A survey of current theories and practices of substance abuse counseling, including etiology, definitions and treatment. A pre-internship practicum course.
- 535. COUNSELING THE CHEMICALLY DEPENDENT FAMILY. 3 cr.** Based upon Family Systems approaches, this course will provide information and experiential techniques for working with chemically dependent families.
- 540. CURRENT ISSUES IN SUBSTANCE ABUSE COUNSELING. 3 cr.** A survey course to examine the current trends in counseling and research in the field of substance abuse.
- 555. SUBSTANCE ABUSE COUNSELORS: CORE FUNCTIONS. 3 cr.** This course is designed to introduce to students the twelve core functions of substance abuse counselors, certification criteria, legal and ethical issues, and the case presentation method.
- 565. PRACTICUM IN SUBSTANCE ABUSE COUNSELING. 3 cr.** This course is designed to introduce students to client contact in face to face situations. Emphasis will be placed on screening, intake, and assessment. This course, when offered in the summer, will be offered as a ten-week course. Prerequisites: Counseling 505, 510, and 667. (Substance Abuse Counseling majors only or permission of department head.)
- 591. DIRECTED STUDY. 1-6 cr.** Investigative study in selected problems for advanced graduate students.
- 599. THESIS. 1-6 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.
- 633. ADVANCED SUBSTANCE ABUSE COUNSELING TECHNIQUES. 3 cr.** In-depth study of specialized processes and techniques involved in working with addicted populations. Techniques used are based upon experiential/emotional based theory with an emphasis on overcoming emotional numbness and resolving issues of shame. (Formerly 533.)
- 670. INTERNSHIP. 3-12 cr.** Supervised work experience in clinics, schools, colleges, or other agencies engaged in professional counseling and therapy services. This course, when offered in the summer, will be offered as a ten-week course. Grades of CR (Credit) or NC (No Credit) will be awarded. Prerequisites: 525, 565; Counseling 505, 510, 667. (Substance Abuse Counseling majors only or permission of department head.)
- 687. SUPERVISION. 3 cr.** In-depth examination of the major models of clinical supervision, review of the supervisory relationship process, and the procedural, ethical, and legal responsibilities associated with supervision.

THEATRE (THEA)

For Undergraduates and Graduates

- 401. COSTUME DESIGN. 3 cr.** Teaches application of art fundamentals and historical research to the creation of costumes for theatre, television, and film through drawing and rendering projects. Prerequisites: Thea 360 or Permission of Instructor. Laboratory practice in production hours on THEATRE ULM productions required.
- 402. ADVANCED STAGECRAFT. 3 cr.** A continuation of work started in Theatre 301 with increased emphasis in technical drawing, painting, welding, and working with new products. The student is required to assist production crews with theatre, television and film productions during the semester. Prerequisite: 301 or Consent of Instructor.
- 403. ADVANCED LIGHTING. 3 cr.** A study of equipment, principles, and techniques of modern stage lighting and design. Prerequisite: 303 or Consent of Instructor. Practical application on University productions.
- 407. DRAMATIC THEORY AND CRITICISM. 3 cr.** A study of the developments in Western dramatic theory and criticism from the ancient Greeks to the postmodern period. (Formerly Evolution of Dramatic Theory.)
- 415. THEATRE HISTORY I. 3 cr.** Studies the history of theatre art and dramatic literature from primitive beginnings to the year 1700. Emphasis is placed on historical research in support of design and directing concept development. Prerequisites: Hist 101 and 102 or Consent of Instructor.
- 416. THEATRE HISTORY II. 3 cr.** Studies the history of theatre art and dramatic literature from 1700 to the present day. Emphasis is placed on historical research in preparation of seminar presentations and research papers. Prerequisites: Hist 101 and 102 or Consent of Instructor.

GRADUATE COURSES 169

- 419. CHILDREN'S THEATRE. 3 cr.** Teaches the selection, direction of plays for child audiences.
- 421. ADVANCED ACTING. 1, 2 or 3 cr.** Teaches advanced skills in specialized areas such as the performance of Shakespearian drama. Topic and credit varies with the subject matter. Prerequisites: Thea 221 and 321 or permission of instructor. May be repeated for a maximum of 9 credits.
- 423. CREATIVE DRAMATICS. 3 cr.** Teaches the use of imaginative and creative activities for instruction in college, secondary and elementary school programs.
- 425. DIRECTING. 3 cr.** Teaches directorial skills in leadership, script selection and analysis, conduct of auditions, rehearsals and performance evaluation through workshop and application. Prerequisites: Thea 111 and 221 and permission of Instructor.
- 427. LEADERSHIP AND MANAGEMENT. 3 cr.** Integrates the management, design, technical, directing and leadership skills taught in other courses through the collaborative application of research to the organizational, legal, financial and artistic challenges particular to theatre operation.
- 431. SUMMER THEATRE PRODUCTION. 1-6 cr.** Provides practical application of theatre skills in a summer theatre environment. Student's participation is determined through audition and application process. Prerequisite: Permission of Instructor.
- 442. CONTEMPORARY THEATRE PRACTICE. 3-6 cr.** Examines current acting and directing styles and techniques in various technical areas: scenery, lighting, sound, makeup, costumes and properties. A. France B. England.
- 451. COSTUME CONSTRUCTION. 3 cr.** Introduction to pattern drawing, pattern and costume alteration, and sewing for the theatre, television or film production. The student is required to assist the costume crews of theatre, television, and film productions during the semester.

For Graduates Only

- 509. PLAYWRITING AND SCRIPT ANALYSIS. 3 cr.** A playwriting course wherein students will develop original scripts and analyze existing scripts from the actor's, designer's, and director's point of view. (Formerly Play Construction.)
- 525. SPECIAL TOPICS. 3 cr. Maximum, 9 cr.** Topics in A. Playwriting; B. Directing; C. Acting; D. Technical Theatre; E. Theatre Management; F. Theory. Prerequisite: Consent of Instructor.
- 541. AMERICAN THEATRE DEVELOPMENT. 3 cr.** History of the American theatre and theatre arts from the colonial period to the twentieth century.
- 542. SCHOOLS OF DRAMA. 3 cr.** A study of groups of theatre artists under a common influence. The historical, systematic or organized framework of various schemes of drama from the ancient Greeks to the present day.
- 551. ADVANCED PRODUCTION DESIGN. 3 cr.** Effects of lighting on various media; light plots and their design; various types of stage design with emphasis on designing scenery for stage use; the relation of scene design to the total theatre, television, and film production.
- 591. DIRECTED STUDY. 1-6 cr.** Individual study in A. Playwriting; B. Directing; C. Acting; D. Technical Theatre; E. Theatre Management. Maximum of 6 hours of Directed Study can be applied to any graduate degree. Prerequisite: Approval of Department Head.
- 599. THESIS. 1-6 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.

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GRADUATE FACULTY

***Fredrick Adams**, Assistant Professor of Foreign Languages
Ph.D. University of Louisiana at Lafayette

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***Sarah H. Allen**, CCC-SLP, Instructor of Speech-Language Pathology
M.A., Northeast Louisiana University

***Larry R. Anderson**, Associate Professor of Music and Director, Jazz and Percussion Division
M.M., University of Tulsa

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Ph.D., Northeast Louisiana University

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Ph.D., Brown University

Christine T. Berry, Assistant Professor of Insurance
Ph.D., Florida State University

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D.B.A., Mississippi State University

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Ph.D., Texas Tech University

Christopher Blackburn, Professor of History
Ph.D., Auburn University

Benny L. Blaylock, Waste Management Endowed Professor and Head, Department of Toxicology, Associate Dean, School of Pharmacy
B.A., B.S., Arkansas Polytechnic College; M.S., Ph.D., University of Arkansas for Medical Sciences

Monica Bontty, Assistant Professor of History
Ph.D., University of California - Los Angeles

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M.A., University of Louisiana at Monroe

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Ph.D., University of Michigan

***Harry Brotherton**, Department Head and Professor of Chemistry
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CGS, M.Ed., Northeast Louisiana University

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Ph.D., University of Tennessee, Knoxville

GRADUATE FACULTY 171

***Ernest E. Bruce**, Associate Professor of Aviation
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Linda Bryan, CCC-SLP, Associate Professor of Speech-Language Pathology
Ph.D., University of Louisiana at Lafayette

James Bulot, Associate Professor of Gerontology and Head, Department of Gerontology,
Sociology and Political Science
Ph.D., University of Massachusetts

Bob N. Cage, Professor of Educational Leadership and Coordinator of Ed.D. Consortium
Program
Ph.D., Iowa State University

Michael A. Camille, Professor of Geography and Head, Department of Geosciences
Ph.D., Texas A&M University

Henry Wilson Campbell, Professor and Head, Department of Kinesiology
Ed.D., University of Southern Mississippi

***Michael J. Cappel**, Associate Professor of Social Work
M.S.W., California State University (Fresno); L.C.S.W., Louisiana

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Ph.D., University of California, Riverside

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Ph.D., Southern Illinois University at Carbondale

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M. Sean Chenoweth, Assistant Professor of Geography
Ph.D., University of Wisconsin

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***Lynn Clark**, Instructor of Curriculum and Instruction
M.Ed., University of the Pacific

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D.M.A. University of Washington

***Murrelyn F. Clark**, Assistant Professor of Kinesiology
M.Ed., Northeast Louisiana University

Kenneth E. Clow, Professor of Marketing
Ph.D., University of Arkansas at Fayetteville

***Michael B. Cockerham**, Associate Professor of Clinical Pharmacy Practice
Pharm.D., Idaho State University

Charles L. Cole, Professor of Marriage and Family Therapy
Ph.D., Iowa State University

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D.B.A., Louisiana Tech University

172 THE UNIVERSITY OF LOUISIANA AT MONROE

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Ph.D., University of Southern Mississippi

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Ph.D., Texas Woman's University

Jan B. Corder, Professor of Nursing and Interim Dean, College of Health Sciences,
Director, School of Nursing
D.S.N., University of Alabama at Birmingham

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Ph.D., Mississippi State University

Jean Cottingham, Associate Professor of Psychology
Ph.D., University of Southern Mississippi

Walter N. Creekmore, Professor of Education
Ph.D., University of North Carolina

***Sharon F. Cruse**, Assistant Professor of Chemistry
Ph.D., Northeast Louisiana University

***Sally Davidson**, Associate Professor and Faculty Chair, Aviation
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***Kathryn Davis**, Assistant Professor of Occupational Therapy
M.A., Louisiana Tech University

***Michael D. Degennaro**, Associate Professor of Pharmaceutics
Ph.D., University of Georgia

Mark Doherty, Associate Professor of Kinesiology
Ph.D., Ohio University

John Paul Dunn, Professor of Marketing; Distinguished Professor of Entrepreneurship and
Small Business; and Director, Entrepreneurship Studies Center
Ph.D., University of Arkansas

Yolanda Dupre, Assistant Professor of Counseling
Ph.D., University of New Orleans

Virginia Eaton, Professor of Computer Science
Ed.D., Vanderbilt University

Robert C. Eisenstadt, Associate Professor of Economics
Ph.D., Georgia State University

Khalid El Sayed, Assistant Professor at Medicinal Chemistry
B.S., M.S., Ph.D., Mansoura University

Micah Everett, Assistant Professor of Music
D.M.A., University of North Carolina-Greensburg

Sherlyn Ezell Powell, Associate Professor of Curriculum and Instruction
Ed.D., University of Alabama

Carlos D. Fandal, Professor of Foreign Languages
Ph.D., Louisiana State University

***Brian Robert Fassett**, Associate Professor of Art
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GRADUATE FACULTY 173

***Anthony D. Feig**, Assistant Professor of Geosciences
Ed.D., University of Texas at El Paso

***Joseph B. Feldhaus**, Assistant Professor of Pharmacy Administration
Ph.D., University of Mississippi

Judy A. Fellows, CCC-SLP, Professor and Head of Speech-Language Pathology and
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Ann M. Findley, Professor of Biology
Ph.D., Louisiana State University

***Gary L. Findley**, Professor of Chemistry
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Ph.D., Mississippi State University

Beverly Flowers-Gibson, Associate Professor of Curriculum and Instruction, Assistant
Dean, College of Education and Human Development and Director of Clinical and Field
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***Stephen Fox**, Associate Professor of Chemistry
Ph.D., State University of New York

Kelly Brooks Friery, Assistant Professor of Kinesiology
Ph.D., The University of Alabama

Fernando Garza, Assistant Professor of Management
Ph.D., University of Texas-Pan American

William Harper Gausshell, Professor of Marriage and Family Therapy
Ed.D., University of Houston

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B.S., Pharm.D., Xavier University of Louisiana

***David Lee Gibson**, Associate Professor of Music and Chair, Wind and Percussion Division
M.M., Northwestern University

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***Marilynn Gibson**, Assistant Professor of Music
M.M.E., University of North Texas

Rochelle W. Gilbert, Assistant Professor of Educational Leadership
Ed.D., University of Louisiana at Monroe

Chris R. Gissendanner, Assistant Professor of Biology
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Ph.D., Louisiana State University

174 THE UNIVERSITY OF LOUISIANA AT MONROE

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Robert D. Hanser, Assistant Professor of Criminal Justice
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Ph.D., Auburn University

Loren Donald Hayes, Assistant Professor of Biology
Ph.D., Miami University (OH)

***Richard Eugene Hayes**, Assistant Professor of Art
M.F.A., Indiana University

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Ph.D., Southern Illinois University-Carbondale

Jack R. Heflin, Professor of English
M.F.A., University of Montana

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Ph.D., University of Maryland

Thomas G. Hodge, Associate Professor of Accounting
Ph.D., The University of Mississippi; C.P.A., Arkansas, Louisiana; C.I.A.; C.M.A.

William C. Hoefler, Associate Professor and Head, Department of Agriculture and
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Charles Holloway, Professor of Foreign Languages
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Saho-Chung Hsia, Assistant Professor of Pharmacology
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Cecil Hutto, Assistant Professor of Psychology
Ph.D., University of Mississippi

Bessie Rene Jackson, Associate Professor and Head, Family and Consumer Sciences
Ph.D., Texas Woman's University

Keith Jackson, Assistant Professor of Pharmacology
Ph.D., University of North Texas Health Sciences Center

GRADUATE FACULTY 175

***Beverly Jarrell**, Associate Professor of Dental Hygiene
M.Ed., Temple University

Christopher J. Johnson, Professor of Sociology
Ph.D., Iowa State University

***Norma O. Johnson**, CCC-SLP, Assistant Professor of Speech-Language Pathology
and Director of Clinical Services
M.A., Northwestern State University

Allen C. Johnston, Assistant Professor of Computer Information Systems
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Ph.D., Indian Institute of Science

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Annela Kelly, Assistant Professor of Mathematics
Ph.D., University of Missouri

***Brian Kelly**, Associate Professor of Mathematics
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Ph.D., Shanghai University

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***Deborah McClung-Guillory**, Assistant Professor of Music
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GRADUATE FACULTY 177

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***Chris Michaelides**, Associate Professor of French
Ph.D., Duke University

Russell L. Minton, Assistant Professor of Biology
Ph.D., University of Alabama

***Louis A. Nabors**, Associate Professor of Music
M.A., Prairie View A&M College

Sami Nazzal, Assistant Professor of Pharmaceutics
Ph.D., Texas Tech University

***Paul Nelson**, Part-time Assistant Professor of Educational Leadership and Counseling
Ph.D., University of Mississippi

Paul S. Nelson, Associate Professor and Faculty Chair of Economics and Insurance
Ph.D., Texas A&M University

Pamela P. Newman, Professor of Counselor Education
Ed.D., Mississippi State University

Ulas Ograk, Assistant Professor of Management
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Paxton E. Oliver, CCC-SLP, Associate Dean, College of Health Sciences
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Susan Olson, Assistant Professor of Music
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Ray Owens, Temporary Part-Time Instructor of Psychology
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Shirlee Ann Owens, Associate Professor of Sociology and Criminal Justice
Ph.D., The University of Georgia

Lesli Pace, Assistant Professor of Speech Communication
Ph.D., Southern Illinois University at Carbondale

Jack A. Palmer, Professor of Psychology
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Eric A. Pani, Professor of Atmospheric Sciences and Associate Provost
Ph.D., Texas Tech University

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Ph.D., Southern Illinois University at Carbondale

Charles V. Pryor, Associate Professor of Counseling and Head, Department of
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***Michael K. Ramsey**, Professor of Clinical Laboratory Science
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C.L.S. (NCA), National Certification Agency for Clinical Laboratory Personnel

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Harvey Rappaport, Associate Professor of Pharmacy Administration
Ph.D., University of Mississippi

***Gary Lynn Ratcliff**, Associate Professor of Art
M.F.A., Texas A&M, Commerce, TX

Wendel A. Ray, Professor of Marriage and Family Therapy
Ph.D., Nova University

John W. Rettenmayer, Professor of Computer Information Systems
Ph.D., University of California, Los Angeles

***Donna A. Rhorer**, Associate Professor English
Ph.D., University of Southwestern Louisiana

George E. Rice, Professor of Educational Leadership
Ph.D., The University of Mississippi

Stephen P. Richters, Professor of Mathematics; Provost and Vice President for
Academic Affairs
Ph.D., Brown University

Beth Ricks, Assistant Professor of Curriculum and Instruction
Ph.D., Arizona State University

***George H. Roberts**, Professor of Clinical Laboratory Science
Ed.D., Grambling State University; M.T. (ASCP), American Society of Clinical Pathologists,
C.L.S. (NCA), National Certification Agency for Clinical Laboratory Personnel

***Christian Rubio**, Assistant Professor of Foreign Languages
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D.P.A., University of Alabama

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M.F.A., University of Massachusetts

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Ph.D., Duke University

Serpil Saydam, Assistant Professor of Mathematics
Ph.D., University of Nebraska

Glen A. Schlee, Assistant Professor of Mathematics
Ph.D., University of North Texas

Dorothy Schween, Associate Professor of Curriculum and Instruction
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Richard D. Seiler, Jr., Associate Professor of Music and Chair, Keyboard Division
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Girish V. Shah, Mary E. and Darrell L. Calhoun Chair and Professor of Pharmacology
B.S., M.S., Ph.D., University of Bombay

Anita Sharma, Associate Professor of Social Work and Gerontology
Ph.D., Florida State University, L.C.S.W., Louisiana

Thilla Sivakumaran, Assistant Professor of Curriculum and Instruction
Ph.D., University of Tennessee

GRADUATE FACULTY 179

LaRue L. Sloan, Professor of English
Ph.D., Texas Tech University

***Flint Smith**, Temporary Part-time Instructor of Psychology
S.S.P., Northeast Louisiana University

Lon Albert Smith, Associate Professor of Computer Science
Ph.D., Tulane University

***Pam Smith**, Temporary Part-time Instructor of Psychology
S.S.P., Northeast Louisiana University

Ruth Elizabeth Smith, Professor and Head, Department of Foreign Languages
Ph.D., University of Oklahoma

Mark D. Somers, Assistant Professor of Physics
Ph.D., University of Maryland

C. Turner Steckline, Associate Professor of Speech Communication
Ph.D., Southern Illinois University-Carbondale

Rebecca Stephenson, Assistant Professor of English
Ph.D., University of Notre Dame

Rick Stevens, Associate Professor of Psychology
Ph.D., University of Oklahoma

Gary L. Stringer, Professor of Geology and Education
Ph.D., The University of Southern Mississippi

***John Sutherlin**, Assistant Professor of Political Science
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Jana P. Sutton, Assistant Professor of Marriage and Family Therapy
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Ph.D., Indiana University

Luke E. Thomas, Professor of Kinesiology
Ph.D., Louisiana State University

Christopher Thompson, Professor of Music and Chair, String Division
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Kim Marie Tolson, Professor of Biology
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***Steve Tolson**, Instructor of Psychology
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***Cliff Tresner**, Associate Professor of Art
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Bruce C. Walker, Assistant Professor of Management
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Debra Troxclair, Assistant Professor of Curriculum and Instruction
Ph.D., University of Southern Mississippi

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Jerry L. Wall, Professor of Management
Ph.D., University of Missouri-Columbia; SPHR

Robert George Ward, Professor of Art
M.F.A., Louisiana Tech University

Jerrilene Washington, Associate Professor of Curriculum and Instruction
Ed.D., Johns Hopkins University

***Fred H. Watson, Jr.**, Professor of Chemistry
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Ph.D., Louisiana State University

Keith White, Professor of Music, Associate Dean/Director, School of Visual and Performing Arts
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***Joel R. Willer**, Assistant Professor of Mass Communications
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***Allison Wiedemeier**, Instructor of Biology
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Harold E. Williamson, Professor and Head, Department of Criminal Justice
Ph.D., Sam Houston State University

Stanley G. Williamson, Professor of Management
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Holly L. Wilson, Associate Professor of Philosophy
Ph.D., The Pennsylvania State University

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Ph.D., Purdue University

* Associate Member of the Graduate Faculty

ADJUNCT GRADUATE FACULTY MEMBERS

***David M. Anderson**, Adjunct Assistant Professor
Ph.D., University of North Carolina

***Loretta Battaglia**, Adjunct Assistant Professor of Biology
Ph.D., University of Georgia

***Kenneth M. Brown**, Adjunct Professor of Biology
Ph.D., University of Iowa

***Richard Buchholz**, Adjunct Associate Professor of Biology
Ph.D., University of Florida

***Jim Catalo**, Adjunct Associate Professor of Chemistry
Ph.D., College of William and Mary

***Cole E. Church**, Adjunct Assistant Professor of Biology
Ph.D., University of Missouri

Philip Cook, Adjunct Professor
Ph.D., University of Georgia

***Brian Crother**, Adjunct Professor of Biology
Ph.D., University of Miami (FL)

***Sam Davidson**, Adjunct Professor of Entrepreneurship
L.L.B., Washington and Lee University

***Luis Ebensperger**, Adjunct Assistant Professor of Biology
Ph.D., University of Boston

***Brian C. Etheridge**, Adjunct Assistant Professor
Ph.D., The Ohio State University

***Carl D. Gilbert**, Adjunct Assistant Professor of Biology
Ph.D., University of Arkansas

***William Adrian Hickmon, Jr.**, Adjunct Assistant Professor of Marriage and Family
Therapy
Ph.D., Virginia Tech

***Jan J. Hoover**, Adjunct Professor of Biology
Ph.D., University of Oklahoma

***John R. Latendresse**, Adjunct Professor of Pathology, National Center for Toxicological
Research
Ph.D. The Ohio State University

***William J. Liles**, Adjunct Associate Professor of Biology
M.D., Louisiana State University

***Edward Lock**, Adjunct Senior Scientist (Professor Equivalent)
Ph.D., Council for National and Academic Awards

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***Marion S. Meriwether**, Adjunct Assistant Professor of Mass Communications
M.A., Northeast Louisiana University

***David S. Moreland**, Adjunct Assistant Professor of Biology
M.S., Northeast Louisiana University

***Keith Ouchley**, Adjunct Assistant Professor of Biology
Ph.D., Louisiana State University

***Frank Pezold**, Adjunct Professor of Biology,
Ph.D., University of Texas

***Peter Pi-Cheng Fu**, Adjunct Professor of Chemistry
Ph.D., University of Illinois at Chicago

***Kenneth W. Rea**, Adjunct Professor
Ph.D., University of Colorado

***Martin J. Ronis**, Adjunct Professor of Toxicology, Arkansas Children's Hospital
Research Institute
Ph.D., Reading University, UK

***Joe Saunders**, Adjunct Associate Professor of Archeology
Ph.D., Southern Methodist University

Larry Short, Adjunct Professor of Management
Ph.D., University of Colorado

Robert E. Stevens, Adjunct Professor of Marketing
Ph.D., University of Arkansas

Elaine Thompson, Adjunct Assistant Professor of History
Ph.D., Rice University

***Stephen Webre**, Adjunct Professor
Ph.D., Tulane University

***Frank A. Witzman**, Adjunct Professor of Toxicology, Indiana University School of
Medicine
Ph.D., Marquette University

* Associate Member of the Graduate Faculty

PROFESSIONAL DEGREE PROGRAMS

PROFESSIONAL DOCTORAL PROGRAMS

The professional doctorate represents a level of education beyond the usual four-year baccalaureate degree and serves as the educational base for entry-level practice in many professions, especially those related to healthcare. The professional doctorate differs in one very significant way from traditional post-graduate academic degree programs in that it is not intended to provide extensive research training. Some professional doctoral programs admit students after the completion of a specified pre-professional curriculum (usually two to three years of post-secondary study) while others may require a prior degree as a prerequisite for enrollment. In either case, such programs transcend the traditional post-secondary educational process.

184 THE UNIVERSITY OF LOUISIANA AT MONROE**DOCTOR OF PHARMACY****College of Pharmacy****Sugar Hall 151****(318) 342-1600****FACULTY**

F. Lamar Pritchard, Professor and Dean of the College of Pharmacy
B.S., Ph.D., University of Georgia

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William M. Bourn, Professor of Pharmacology and Director of Development
B.S., Ph.D., University of Arizona

Karen P. Briski, Professor of Pharmacology and Head, Department of Basic Pharmaceutical Sciences
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W. Greg Leader, Professor of Clinical Pharmacy Practice and Associate Dean, Academic Affairs, College of Pharmacy
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Harihara M. Mehendale, Professor of Toxicology, Director, Louisiana Institute of Toxicology and Kitty DeGree Chair
B.S., Kamataka University; M.S., Ph.D., North Carolina State University

Roy Parish, Professor of Clinical Pharmacy Practice and Tom and Mayme Scott Eminent Scholars Chair in Pharmacy Practice
B.S., Pharm.D., University of Florida

Girish V. Shah, Mary E. and Darrell L. Calhoun Chair and Professor of Pharmacology
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Michael D. DeGennaro, Associate Professor of Pharmaceutics
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Ronald A. Hill, Associate Professor of Medicinal Chemistry
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Charles W. Jastram, Jr., Associate Professor of Clinical Pharmacy Practice and Head, Department of Clinical and Administrative Sciences
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Pharm.D., Xavier University of Louisiana

Laurel L. Andrews, Assistant Professor of Clinical Pharmacy Practice, Coordinator of Early Experimental Practice
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Ph.D., Wayne State University

Alamdor Hussein, Assistant Professor of Pharmaceutics
Ph.D., Texas Tech University Health Sciences Center

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Ph.D., University of North Texas Health Sciences Center

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Seetharama D.S. Jois, Assistant Professor of Medicinal Chemistry
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Ph.D., Nagasaki University, Nagasaki, Japan

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Pharm.D., University of Houston

Yong-Yu Liu, Assistant Professor of Pharmacology
Ph.D., Shanghai University of Traditional Chinese Medicine, Republic of China

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Pharm.D., University of Louisiana at Monroe

Sami Nazzal, Assistant Professor of Pharmaceutics
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Pharm.D., University of Louisiana Monroe

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M.S., Northeast Louisiana University

John E. Herrock, Instructor of Toxicology
M.S., Northeast Louisiana University

Nancy Pierron, Instructor of Clinical Pharmacy Practice
B.S., Northeast Louisiana University

Walter Pierron, Instructor of Clinical Pharmacy Practice
B.S., University of Mississippi

Anthony L. Walker, Instructor of Clinical Pharmacy Practice
B.S., Northeast Louisiana University

ADJUNCT FACULTY

John R. Latendresse, Adjunct Professor of Pathology
Ph.D., The Ohio State University

Edward Lock, Adjunct Senior Scientist (Professor Equivalent)
Ph.D., Council for National and Academic Awards

Tarun K. Mandal, Adjunct Professor of Pharmaceutics
B.Pharm., Jadavpur University, Calcutta, India; M.Pharm., Jadavpur University, Calcutta,
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Martin J. Ronis, Adjunct Professor of Toxicology
Ph.D., Reading University, UK

Mary Julia (MJ) Terrebonne, Adjunct Professor of Pharmacy Administration
B.S., Northeast Louisiana University

Frank A. Witzman, Adjunct Professor of Toxicology
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Barry S. McIntyre, Adjunct Associate Professor of Pharmacology
Ph.D., Washington State University

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Annette M. Shipp, Adjunct Assistant Professor of Toxicology
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Lois R. Anderson, Adjunct Assistant Professor of Clinical Pharmacy Practice
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Wanda H. Wells, Adjunct Assistant Professor of Pediatrics
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* Associate Member of the Graduate Faculty

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MISSION STATEMENT

The College of Pharmacy at the University of Louisiana at Monroe, Louisiana's College of Pharmacy, endeavors to create a professional learning environment that embraces the concept of continual quality improvement. This environment will enable the College to produce and maintain excellent academic, research and service programs that directly enhance the health and environment of the state of Louisiana and beyond.

The mission of the College of Pharmacy (COP) is to educate future health care professionals to meet the diverse pharmaceutical care needs of the people of Louisiana and to serve the professions of pharmacy and toxicology through a balanced program of education, research, service, and patient care.

The strategic decisions and daily operations of the College's faculty and staff will be reflective of the following values:

- **Responsibility** - acting morally, ethically, and with integrity, as well as being accountable for one's actions. Students, faculty, and staff have a duty to adhere to these standards. We also recognize our duty to be thoughtful stewards of those resources entrusted to us.
- **Innovation** - the synthesis, embodiment, or combination of knowledge in original, relevant, valued new products, processes, or services, especially as related to promoting optimal patient and educational outcomes.
- **Collaboration** - the development of educational, research and practice partnerships among students, practitioners, educators, and other stakeholders.
- **Quality** - the pursuit of excellence, which is cultivated and assessed through a process of continual quality improvement.
- **Professionalism** - the demonstration of structural, attitudinal, and behavioral attributes of a profession and its members. Certain professional attributes, including a service orientation; caring; respect for others; accountability and responsibility for one's action; integrity; honesty; ethically sound decision making; and a commitment to life-long learning are fundamental to our functioning as learners, educators, researchers, scholars, and practitioners of pharmacy.

In addition to the values stated above, we have set the following goals:

Education

1. Educate entry level pharmacy practitioners to deliver pharmacy care in a dynamic, culturally diverse society, enabling graduates to enter a wide range of existing or emerging health care practices.
2. Provide effective graduate education in the pharmaceutical and toxicological sciences.
3. Recognize professional education as an individual process that begins in the academic setting and continues throughout the professional career, not only for the student but educators and practitioners as well.
4. Model attitudes and values that emphasize the importance of a team approach to patient-centered care.
5. Integrate basic, clinical, administrative and toxicological sciences.

Research/Scholarly Activity

1. Promote, develop and sustain excellence in graduate study and research in the clinical, basic, social and administrative sciences, thereby adding to the body of

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knowledge for scientists and educators in pharmacy, toxicology and related fields.

2. Promote research and scholarship that lead to improved patient care.
3. Promote research and scholarship that lead to improved educational outcomes.
4. Assess and evaluate all research and scholarly activity undertaken within the College.
5. Provide appropriate mentorship for faculty development.

Service

1. Address the healthcare and other societal needs by involving faculty, staff, and students in service activities at the University, local, state, national and international levels.
2. Promote wellness and disease prevention.
3. Promote therapeutic interventions, rational medication use, and the judicious use of economic resources.
4. Advance student and faculty participation and leadership in professional organizations.

Pharmacy Practice

1. Promote and optimize pharmacy care in order to improve patient outcomes.
2. Promote postgraduate professional training and assume an active role in the development of residencies and fellowships.

Reflection upon our stated mission, values, and goals has led us to develop the following educational philosophy:

The entry level Doctor of Pharmacy curriculum is an integration of biomedical, pharmaceutical, clinical, and administrative sciences to prepare practitioners who can effectively provide pharmaceutical care in a changing profession. Consistent with the educational philosophy of the University, the educational process is based on a student-centered approach that values life-long learning and the development of complex problem solving skills. Faculty demonstrate through their teaching, practice, and research the highest standards of professionalism and a passion for quality patient care.

Students will demonstrate the following:

1. A commitment to developing life-long learning habits.
2. The abilities required for a competent and contemporary patient-centered pharmacy practice.
3. Behaviors and attitudes necessary for professional growth and development.

GENERAL INFORMATION

The College of Pharmacy was established by the State Board of Education on August 11, 1956 and continues to serve as Louisiana's sole State supported Pharmacy Program. The College of Pharmacy continues to evolve to meet the health care needs of the State's population, and in 1998, began to offer the Doctor of Pharmacy degree as its sole entry level professional pharmacy degree. The College also offers the State's only masters and doctor of philosophy degrees in the areas of pharmacy and pharmaceutical sciences. The Bachelor of Science program in Toxicology was initiated in 1982 and is one of only six programs in the country. The College of Pharmacy currently includes three academic departments - Basic Pharmaceutical Sciences, Clinical and Administrative Sciences, and Toxicology.

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ACCREDITATION

The Doctor of Pharmacy program in the College of Pharmacy is accredited by the Accreditation Council for Pharmacy Education. The College of Pharmacy is a member of the American Association of Colleges of Pharmacy, an organization whose mission is to promote pharmaceutical education and research.

DOCTOR OF PHARMACY PROGRAM

The Doctor of Pharmacy degree is the highest level of applied professional education offered in pharmacy. It is designed to assure development of clinical skills and judgment with the acquisition of the confidence necessary to assess therapeutic problems and to be an active participant in decision-making processes related to pharmaceutical care. The program is designed to provide a broad spectrum of study in the administrative, biological, clinical, pharmaceutical, and social sciences to prepare graduate for careers in academic, ambulatory, community, industrial and institutional settings.

Admission to the Doctor of Pharmacy program requires preparatory coursework focusing in the areas of biological, chemical and physical sciences and written and oral communications that need to be completed prior to admission into the College of Pharmacy. Students wishing to pursue a career in pharmacy are encouraged to complete their pre-professional requirements in conjunction with pursuing a four year degree (e.g., toxicology, biology, chemistry, etc.). Pre-professional preparatory coursework may be completed at any accredited University. Students aspiring to complete their pre-professional preparatory coursework at the University of Louisiana at Monroe must meet the admission requirements for the University.

Upon completion of the preparatory coursework, students may apply for admission to the Doctor of Pharmacy program in the College of Pharmacy. Admission to the program is competitive and, at a minimum, is based on cumulative pre-professional preparatory course work grade point average, written and oral communication skills, and scores on the Pharmacy College Admission Test.

For the 2009 admission cycle, students applying for admission to the College of Pharmacy must meet the following academic requirements:

1. Have a minimum 3.0 cumulative grade point average;
2. Meet the University of Louisiana at Monroe's core curriculum requirements with a grade of C or better in each core course;
3. Complete the following courses or their equivalents with a grade of C or better:
 - a. Biology 120, 121, 214, 215, 220, 240, 241, 305, 311, 312, and 313.
 - b. Business 305
 - c. Chemistry 107, 108, 109, 110, 230, 231, 232, 233, and 350.
 - d. Economics 201
 - e. English 101, 102, and 320.
 - f. Kinesiology 201
 - g. Management 301
 - h. Math 113, 131, 132, and 303.
 - i. Physics 203, 204, 209, 210.
 - j. Speech 201
4. Meet the technical standards of the College, and
5. Meet the minimum Pharmacy College Admissions Test score criteria.

ADMISSION TO THE DOCTOR OF PHARMACY PROGRAM

Admission to the program is competitive, and is based on the student's academic ability, communication skills, and potential for professionalism. As required by the Accreditation Council for Pharmacy Education, the College of Pharmacy offers extensive experiential clerkship instruction in its educational program. For this reason, admissions

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are determined annually based upon the instructional resources available to the program. Preference for admission is extended to Louisiana residents. The University of Louisiana at Monroe, Office of Admissions determines residence status in accordance with the regulations of the University of Louisiana System Board of Supervisors.

In addition to meeting the requirements of admission for the University of Louisiana at Monroe, applicants for admission to the Professional Program in the College of Pharmacy must have completed the required pre-professional preparatory coursework with no grade less than C, possess a cumulative grade-point average of at least 3.000 (uncorrected, based on a 4.0 system) in all previous coursework undertaken, exclusive of developmental courses, whether passed or failed at all institutions of attendance, and meet the technical standards of the College.

The application process for admission to the College of Pharmacy requires the student to complete an online application with the Pharmacy College Admission Service (PharmCAS), a supplemental application with the College of Pharmacy, and a University application. Online applications to PharmCAS must be completed by November 3rd immediately preceding the applicant's effective admission date. Supplemental applications are due to the Office of Student and Professional Affairs in the College of Pharmacy no later than November 3rd immediately preceding the applicants effective admission date, and all pre-professional preparatory coursework and university core curriculum requirements must be completed no later than June 1st immediately preceding the applicant's requested effective admission date. Coursework completed more than seven years prior to the applicant's requested admission date may not be used to satisfy pre-professional requirements and will be excluded from all evaluations and grade point calculations associated with the professional program admission process.

Official scores from the Pharmacy Collage Admission Test (PCAT) must be submitted by students applying for admission to the professional program. PCAT scores must be submitted to PharmCAS by the November 3rd admissions deadline. Selected qualified students will be invited to campus for interviews to evaluate their communication skills and potential for professionalism. Applicants are expected to exhibit the degree of maturity commensurate with advanced academic study as well as motivation for the practice of pharmacy. Applications will be reviewed by the Admissions Committee, and the Dean will take final action on the committee's recommendation and notify the students concerned. A complete explanation of application procedures pertaining to the current admissions cycle and application forms are available online at the College of Pharmacy website (www.ulm.edu/pharmacy).

Students seeking to transfer to the professional program of the College of Pharmacy from other accredited colleges of pharmacy must meet the pre-professional preparatory coursework requirements and be eligible for admission to the University. Additionally, the applicant must be in good academic standing and be eligible to continue and progress in the College of Pharmacy he/she has been attending. The student must have an overall grade-point average of at least 3.000 (4.0 system) on all coursework attempted at the time of transfer. A logical sequence of professional courses and appropriate prerequisites must have been maintained. Advanced standing will be granted on comparable subject matter for which a grade of C, or better, has been earned. A minimum of one academic year is required for graduation. Transfer opportunities are possible only when vacancies in existing classes occur. Students admitted on a professional transfer basis to a class in progress shall be subject to all requirements and restrictions applicable to other students in the class.

Any person having been convicted of a drug related felony will not be admitted to the professional program of the College of Pharmacy.

ATTENDANCE POLICY

The professional educational experience in the College of Pharmacy involves many multifaceted learning objectives, including professional interactions with faculty and peers, that do not lend themselves to traditional testing modalities and assignment of letter grades. As a result, class attendance is mandatory in all pharmacy courses. Students

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accumulating more than 3 unexcused absences in a course during an academic semester will be administratively dropped from the course with a "W" grade. In accordance with College of Pharmacy policy and procedure, a grade of "W" will be counted as an "F" grade with respect to academic standards.

BACKGROUND CHECKS

Students applying to the College of Pharmacy may be required to undergo a background check as a part of the application process. All students enrolling in the professional program will undergo criminal background checks as a part of obtaining their Louisiana State Board of Pharmacy Intern License. Any previous activity that would preclude the issuance or continuance of an intern license may result in suspension or dismissal from the program.

CODE OF ETHICAL AND PROFESSIONAL CONDUCT

The College of Pharmacy employs a code of ethical and professional conduct which relies on the honor system. The code is based on the assumption that pharmacy students, as future health care professionals will develop maturity and professionalism through self-governance. The code of ethical and professional conduct is a form of student self-governance that applies to all facets of the student's academic and professional life.

The basic assumption of the code is that central to the act of being a professional is conducting one's self with the highest sense of honor and integrity, and primary core values that every pharmacy student should possess include honesty, integrity, responsibility, competence and respect for people. Pharmacists do not learn to be professionals upon completion of degree requirements or through issuance of a license. Instead, the internalization of the concept of professionalism must occur as a part of the professional education process so that pharmacy students carry these concepts with them into the profession. It is the pharmacy student's responsibility to develop a selfless sense of service that demands personal excellence and accountability. By enrolling in the College of Pharmacy, a student accepts these professional standards and requirements as a prerequisite for continued enrollment in the pharmacy curriculum and graduation.

As a condition of acceptance to the College of Pharmacy, the applicant shall be required to agree to abide by the Code of Ethical and Professional Conduct.

COMPUTER REQUIREMENTS

All students admitted to the Doctor of Pharmacy program are required to purchase a laptop for use in the classroom and obtaining notes. It is the responsibility of the student to backup their system, print their notes, and have technical service for their computer. The technical support area of the College of Pharmacy is available for connectivity issues relating to our wireless network. However, they do not provide in-depth technical support for student computers.

The University of Louisiana at Monroe does not support Windows VISTA operating system. Computers with this operating system, may encounter connectivity issues with the wireless network. These connectivity issues do not fall within the scope of the technical support area of the College of Pharmacy.

FEES, EXPENSES, AND REFUNDS

Tuition and fees are set on an annual basis and are subject to change. Because the expenses of educating pharmacists is substantially more than the expenses associated with undergraduate training, tuition and fees, including a professional fee, are substantially higher than those associated with the undergraduate programs in the University. Students classified as non-Louisiana residents under the regulations of the University of Louisiana System Board of Supervisors will pay out-of-state tuition in addition to general tuition and fees. Courses enrolled for audit will be charged tuition the same as courses for

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academic credit. In order for a student's enrollment to be complete, the student's registration fees must be paid in full. It is the student's responsibility to follow-up on anticipated or pending financial aid to ensure that the student's bill is paid in full. Payments must be received in the "University" or by mail in the Controller's Office, or via web payment by the published deadline in order that the payments are not considered to be late payments. A student who resigns from the University may be entitled to some refund of tuition, activity and out-of-state fees, and/or room and meal plan charges. The exact amount of the refund, if any, will depend upon the resignation circumstances and timing. Refunds will be subject to an administrative fee. A complete description of the student billing and refund policy can be found in the University of Louisiana at Monroe Student Policy Bulletin. (<http://www.ulm.edu/studentpolicy/studentpolicy.pdf>).

IMMUNIZATION POLICY

In addition to the general Immunization Compliance required of all students by Louisiana R.S. 17.170, students admitted to the professional program of the College of Pharmacy must meet immunization requirements established by the college. Students accepting admission to the College of Pharmacy will be provided a set of immunization requirements and a deadline to meet the requirements. Students failing to meet immunization deadlines will have their offer of admission rescinded.

INSURANCE REQUIREMENTS

Health insurance is required of all students enrolled in the College of Pharmacy. Students failing to show proof of health insurance may have their offer of admission rescinded or be suspended from the program until such proof is available.

LIABILITY/MALPRACTICE INSURANCE

All students enrolled in the professional program are automatically be covered by professional liability insurance during their practice experiences or while participating in other practice activities that are part of the student's curriculum. The University maintains commercial excess general and medical malpractice liability insurance administered through the State of Louisiana Office of Risk Management for itself, its agents, officers, employees and students. This coverage can be viewed from the web site located at: <http://doa.louisiana.gov/orm/pdf/uwsumm.pdf> Primary Commercial General Liability coverage is underwritten by the Louisiana Self-Insurance Fund (Self insured by the office of Risk Management) and provides \$5,000,000 per occurrence (no aggregate). Miscellaneous Tort Liability coverage is underwritten by the Louisiana Self-Insurance Fund and provides comprehensive umbrella excess of \$5,000,000 per occurrence. The student professional liability insurance does not cover students when employed outside the curriculum.

PHARMACY INTERN PERMITS

Students admitted to the professional program must apply for an active pharmacy intern permit during the first semester following enrollment into the professional program and maintain the intern permit continually throughout enrollment in the professional program. Students found to be in violation of the regulations of the Louisiana Board of Pharmacy may be required to resign their enrollment.

RANDOM DRUG SCREENING REQUIREMENTS

In the interest of public health and safety, all students enrolling in the professional program of the College of Pharmacy are subject to random drug screening. Such tests are conducted by independent laboratories and test results are reported directly to the College

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of Pharmacy. Results of random drug screenings will also be reported to Louisiana State Board of Pharmacy.

TECHNICAL STANDARDS

The goal of the College of Pharmacy is to broadly prepare students to practice pharmacy with special emphasis on practicing in primary care settings. Regardless of the eventual type of practice (i.e., community, clinic, or health care system), students must demonstrate competence in intellectual, physical and social tasks that together represent the fundamentals of being able to provide contemporary pharmaceutical care. Students will be judged by their respective program faculty not only on their scholastic achievement and ability, but also on their intellectual, physical and emotional capacities to meet the full requirements of the college's curriculum. As an advisory committee to the Dean, the Admissions Committee is instructed to exercise judgment on behalf of the faculty to recommend the entering class, and to consider character, extracurricular achievement, and overall suitability for the pharmacy profession based upon information in the application and personal interviews.

The American Council on Pharmaceutical Education, the accrediting body for colleges and schools of pharmacy, requires that the curriculum provide a general professional education, enabling each student to eventually practice as a pharmacy generalist. This requires the development of broad knowledge, skills, behaviors, ongoing self-directed learning, and the eventual ability to deliver competent pharmaceutical care within a reasonable time frame and within the context of the legal and ethical framework of the profession. The basic science curriculum includes the study of biochemistry, medicinal chemistry, molecular biology, immunology, physiology, pharmaceuticals, pathology and pharmacology; all within the context of application to solving clinical problems. The practice skill curriculum includes the behavioral, administrative, supervisory, economic, legal, ethical, analytical, integrative, historical and contextual aspects of practice. The basic sciences and practice skills curricula are interwoven and are designed to establish a core of knowledge necessary for understanding pharmacotherapeutics and undergoing advanced clinical training. The clinical curriculum includes diverse experience in primary care, in ambulatory and inpatient setting, and in specialized environments such as long term care and managed care or home infusion practices. The basic science, practice skills and clinical experiences develop the ability to practice pharmacy with the goal of providing cost effective improvement in patient outcomes, independently or with a team or other health care professionals, regardless of the future choice of practice site. The faculty requires each student to pass each required course and all of the clinical rotations, to graduate.

The following technical standards specify those attributes the faculty considers necessary for completing pharmacy training, enabling each graduate to subsequently enter clinical practice, residency or fellowship training. These standards describe the essential functions students must demonstrate in order to fulfill the requirements of a general pharmacy education, and thus, are prerequisites for entrance, continuation, and graduation from the College of Pharmacy. The University of Louisiana at Monroe College of Pharmacy will consider for admission any applicant who demonstrates the ability to perform or to learn to perform the skills listed in this document. Applicants are not required to disclose the nature of their disability(ies), if any, to the Admissions Committee. However, any applicant with questions about these technical standards is strongly encouraged to discuss the issue with the Director of Student and Professional Affairs prior to the interview process. If appropriate, and upon the request of the applicant/student, reasonable accommodations will be provided.

Certain chronic or recurrent illnesses and problems that interfere with patient care or safety may be incompatible with pharmacy training or practice. Other conditions that may lead to a high likelihood of student illness should be carefully considered. Deficiencies in knowledge base, judgment, integrity, character, or professional attitude or demeanor, which may jeopardize patient care, may be grounds for course/rotation failure and possible dismissal.

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A student must possess aptitude, abilities, and skills in five areas:

- 1) observation;
- 2) communication;
- 3) sensory and motor coordination and function;
- 4) conceptualization, integration and quantitative evaluation; and
- 5) behavioral and social skills, abilities and aptitude.

These are described in detail below. The program faculty will monitor maintenance of these standards. Students must be able to independently perform the described functions.

1. OBSERVATION

Students must be able to

- a. observe demonstrations and conduct exercises in a variety of areas related to contemporary pharmacy practice, including but not limited to, monitoring of drug response and preparation of specialty dosage forms.
- b. observe a patient accurately at a distance and close at hand, noting nonverbal as well as verbal signals. Specific vision-related requirements include, but are not limited to the following abilities:
 - i. visualizing and discriminating findings on drug or fluid monitoring tests;
 - ii. reading written and illustrated material;
 - iii. observing demonstrations in the classroom or laboratory, including projected slides and overheads;
 - iv. observing and differentiating changes in body movement;
 - v. observing anatomic structures;
 - vi. discriminating numbers and patterns associated with diagnostic and monitoring instruments and tests, and
 - vii. competently using instruments for monitoring drug response.

2. COMMUNICATION

Students must be able to

- a. relate effectively and sensitively with patients and their caregivers and or partners, and convey a sense of compassion and empathy.
- b. communicate clearly with, and observe patients in order to elicit information, accurately describe changes in mood, activity and posture, and perceive verbal as well as nonverbal communication. Communication includes not only speech but also reading and writing. Communicate quickly, effectively and efficiently in oral and written English with all members of the health care team. Specific requirements include but are not limited to the following abilities:
 - i. communicating rapidly and clearly with the health care team on rounds;
 - ii. eliciting a thorough history from patients; and
 - iii. communicating complex findings in appropriate terms to patients and their caregivers, partners and various members of the health care team (fellow students, physicians, nurses, aides, therapists, social workers, and others).
- c. learn to recognize and promptly respond to emotional communication such as sadness, worry, agitation, and lack of comprehension of communication.
- d. recognize signs of behavioral disorders that may impact a patient's compliance.
- e. read and record observations and care plans legibly, efficiently and accurately.
- f. prepare and communicate concise but complete summaries of individual encounters and complex, prolonged encounters with patients.
- g. complete forms or appropriately document activities according to directions in a complete and timely fashion.

PROFESSIONAL DEGREE PROGRAMS 197**3. SENSORY AND MOTOR COORDINATION OR FUNCTION**

Students must have sufficient sensory and motor function to monitor drug response and to prepare and or dispense pharmaceuticals.

A student should be able to execute motor movements reasonably required to participate in the general care and emergency treatment of patients. They must be able to respond promptly to urgencies within the practice setting and must not hinder the ability of their coworkers to provide prompt care. Examples of such emergency treatment reasonably required of pharmacists include arriving quickly when called, participating in the initiation of appropriate procedures, and rapidly and accurately preparing appropriate emergency medication.

4. INTELLECTUAL-CONCEPTUAL INTEGRATIVE AND QUANTITATIVE ABILITIES

These abilities include

- a. measurement,
- b. calculation,
- c. reasoning,
- d. analysis,
- e. judgment,
- f. numerical recognition and
- g. synthesis.

Especially important is the appropriate and rapid calculation of dosages in a variety of conditions such as renal or hepatic failure, obesity, cardiac or respiratory arrest, etc. Additionally, calculations involving appropriate dilution or reconstitution of drug products, electrolytes, etc. must be made accurately and quickly. Problem solving, a critical skill demanded of all pharmacists, requires all of these intellectual abilities and must be performed quickly, especially in emergency situations.

Students must be able to

- a. identify significant findings from history, physical assessment, and laboratory data; provide a reasonable explanation and analysis of the problem;
- b. determine when additional information is required; suggest appropriate medications and therapy;
- c. develop appropriate treatment plans to improve patient outcomes;
- d. develop patient counseling information at a complexity level appropriate to a particular situation; and
- e. retain and recall information in an efficient and timely manner.

The ability to incorporate new information from peers or teachers, and to locate and evaluate new information from the literature to be used appropriately in formulating assessments and pharmaceutical care plans is essential, as is good judgment in patient assessment and therapeutic planning for disease management.

Students must also be able to

- a. identify and communicate the limits of their knowledge to others when appropriate and be able to recognize when the limits of their knowledge indicate further study or investigation is essential before participating in decision making.
- b. interpret graphs or charts describing biologic, economic or outcome relationships.

5. BEHAVIORAL ATTRIBUTES

Empathy, integrity, honesty, concern for others, good interpersonal skills, interest and motivation are all personal qualities that are required. Students must possess

- a. the emotional health required for full use of their intellectual abilities;
- b. the exercise of good judgment;

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- c. the prompt completion of all responsibilities attendant to the care of patients, and
- d. the development of mature, sensitive and effective relationships with patients and their caregivers and partners.

At times this requires the ability to be aware of and appropriately react to one's own immediate emotional responses and environment. For example, students must maintain a professional demeanor and organization in the face of long hours and personal fatigue, dissatisfied patients, and tired colleagues.

Students must

- a. be able to develop professional relationships with patients and their caregivers and partners, providing comfort and reassurance when appropriate while protecting patient confidentiality.
- b. possess adequate endurance to tolerate physically taxing workloads and to function effectively under stress or with distractions. All students are at times required to work for extended periods, occasionally with rotating shifts.
- c. be able to adapt to changing environments, to display flexibility, and to learn to function in the face of uncertainties inherent in the clinical problems of many patients.
- d. develop the skills necessary to instruct and supervise technical personnel assisting with the delivery of pharmaceutical services.

Students are expected to accept appropriate suggestions and criticism and if necessary, respond quickly, appropriately and cooperatively by modification of behavior.

TRANSPORTATION

College of Pharmacy classrooms are located approximately 1 & 1/2 miles away from the main campus. Students are expected to provide their own transportation to and from classes. Additionally, Introductory and Advanced Practice Experiences may be assigned anywhere in Louisiana or the surrounding region. Students are expected to provide for their own housing and transportation during the practice experiences.

ACADEMIC, ETHICAL AND PROFESSIONAL STANDARDS

Students admitted to the College of Pharmacy are held to rigorous academic, ethical and professional standards as outlined in the College of Pharmacy Student Handbook. To complete the Doctor of Pharmacy program, the student must have demonstrated satisfactory academic performance and ethical and professional standards. Disciplinary actions may occur based on violations of academic, ethical or professional standards as outlined in the College of Pharmacy Handbook.

ACADEMIC PROGRESSION. Failure of a student to earn a minimum grade of "C" in a professional pharmacy course precludes progression to courses for which it is a prerequisite. In the event a that a student fails to obtain a grade of C or better in a professional pharmacy course, the student must remediate that course or its equivalent at the next offering of the course, and such remediation must be completed within one year of the original course. Course withdrawals and leaves of absences disrupt a student's progress and are discouraged. A student who must withdraw from one or more courses for compelling circumstances beyond his or her control may petition the Associate Dean of Academic Affairs to withdraw from specific courses or from all courses. Withdrawal from a course without administrative approval will result in "W" grades being treated as a grade of "F" for academic progression and retention purposes. Failure of a student to earn a minimum grade of "C" in all professional pharmacy courses precludes progression to the Advanced Practice Experiences. Students who fail to meet minimum progression standards may find it necessary to resign their enrollment for one or more semesters. Students who interrupt their enrollment in professional pharmacy courses for a period of more than two consecutive enrollment periods (two semesters) must apply for readmission to the professional program of the College of Pharmacy.

PROFESSIONAL DEGREE PROGRAMS 199

PROBATION. Any full-time or part-time student enrolled in the professional program in pharmacy who fails to maintain a minimum overall cumulative grade point average of 2.0 in required professional pharmacy courses, earns a semester grade-point average of below 2.0 in professional courses or earns a grade of "D" or lower in two or more professional courses in a semester shall be placed on probation. Students may also be placed on probation for violation of ethical or professional standards.

REMOVAL FROM PROBATION. To be removed from probation, full-time or part-time students enrolled in the professional program of pharmacy must earn sufficient quality points to achieve an overall cumulative grade point average of at least 2.0 in required professional pharmacy courses during their next regular enrollment period, earn a grade of "C" or better on all professional pharmacy coursework during their next regular enrollment period and meet any criteria set by the Committee on Academic Standards. Students placed on probation due to violation of ethical or professional standards will be removed from probation when they have met the requirements set by the Board of Ethical and Professional Conduct and the Dean of the College of Pharmacy in their disciplinary actions.

SUSPENSION. Any student on probation who fails to achieve an overall cumulative grade point average of at least 2.0 in required professional pharmacy courses at the conclusion of their probationary enrollment or earn any grade less than a "C" in any professional course while on probation shall be suspended for a period of one academic year. Upon reentry into the professional program of pharmacy after suspension for scholastic reasons, a student is placed on probation and will be suspended if an overall cumulative grade average of at least 2.0 in required professional pharmacy courses is not achieved during the next enrollment period or if a grade of "C" or better is not earned in all professional coursework while under probation. Students who have their permit suspended or revoked by the Louisiana Board of Pharmacy will be suspended from the College of Pharmacy until their permits are reinstated. Suspensions related to violations of ethical and professional standards may vary in duration, and students suspended for non-academic reasons must meet the requirements set by the Board of Ethical and Professional Conduct in their disciplinary action to be readmitted into the program.

In order to preserve the educational environment of the College of Pharmacy, any student enrolled in the professional program of the College of Pharmacy who is formally charged by civil authorities with the commission of a drug related felony shall be suspended from the College of Pharmacy pending the outcome of the civil judicial process. The policy is applicable to all such alleged offenses whether committed on the University campus or at an off-campus location.

COURSES TAKEN BY STUDENTS UNDER SUSPENSION. No student under suspension for scholastic reasons may obtain credit toward a degree on courses pursued at another institution while ineligible to register in any institution under the jurisdiction of the University of Louisiana System Board of Supervisors.

DISMISSAL FROM PHARMACY. Any student enrolled in the professional program of pharmacy shall be dismissed from the program for the following:

- 1) Receiving a second scholastic suspension.
- 2) Failing to satisfy all graduation requirements for the Doctor of Pharmacy Degree within a six calendar year period immediately following his/her initial enrollment in the professional pharmacy program. If a student reaches a point from which it could not be expected for him/her to finish within the required six-year period by progressing through the normal sequencing of remaining courses, the student will be dismissed from the program at that time.
- 3) Any student enrolled in the professional pharmacy program that earns two or more F grades in professional pharmacy courses - in any sequence or combination.
- 4) Any student enrolled in the professional pharmacy program that fails to complete a required professional pharmacy course or its equivalent with a minimum grade of C upon a second attempt (i.e. when repeating a required professional pharmacy course or its equivalent in which an initial grade of either "F" or "D" was earned, the student must achieve a minimum grade of C upon the first remediation attempt).
- 5) Students denied a pharmacy intern permit by the Louisiana Board of Pharmacy.

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- 6) Any student who has been admitted to the professional program of the College of Pharmacy and subsequently convicted of a drug related felony.
- 7) Students who have their pharmacy intern permit permanently revoked.
- 8) Any student admitted to the professional program that is not compliant with the immunization requirements of the College of Pharmacy.
- 9) Students failing to attend class.
- 10) Professional and/or ethical misconduct
- 11) Inability to meet the technical standards of the College of Pharmacy

DROPPING CLASSES OR WITHDRAWING FROM THE COLLEGE OF PHARMACY.

Students admitted into the Doctor of Pharmacy Program in the College of Pharmacy are not allowed to withdraw from courses or from the College or University without academic consequences. Students withdrawing from courses without administrative support will receive a grade of "W" which will be treated as a grade of "F" for academic standards purposes. Students withdrawing from the College or University without administrative support may not resume activities in the College unless they are readmitted to the Doctor of Pharmacy Program.

Students wishing to take a leave of absence or withdraw from the program with administrative support must send a written request to the Associate Dean of Academic Affairs in the College of Pharmacy. To receive administrative support for withdrawal, students must demonstrate and document a significant hardship that will impact their ability to continue in the program. Failure to maintain appropriate progress or achievement in a course is not sufficient hardship to acquire administrative support. The request will be reviewed by the Associate Dean of Academic Affairs in consultation with the Office of Student and Professional Affairs. Students receiving administrative support for withdrawing from the program will sign a letter of agreement from the Associate Dean of Academic Affairs which states the reason they are withdrawing from the program, when they will return to the program, remediation or developmental programs that must be completed while on leave, and the status of the student upon returning to the program. Students withdrawing from the College of Pharmacy professional program with administrative support will be readmitted to the program upon completion of the requirements set forth in their letter of agreement. Students not complying with their letter of agreement will be dismissed from the program unless the letter has been modified with the consent of the Dean of the College of Pharmacy or his/her designee. Students withdrawing from the Doctor of Pharmacy Program without administrative support will be considered dismissed from the program and must appeal to the College of Pharmacy Academic Standards Committee for readmission to the program.

APPEALS FOR STUDENTS WHO HAVE WITHDRAWN OR BEEN DISMISSED FROM THE COLLEGE OF PHARMACY. Students who have withdrawn from the University or College without administrative support or have been dismissed from the College of Pharmacy for academic reasons may appeal to the Academic Standards Committee for readmission to the program. The student should write a letter of appeal to the Chair of the Academic Standards Committee outlining and supporting their request to be readmitted to the program. The Academic Standards Committee will review the request and recommend appropriate action to the Dean of the College of Pharmacy. The Dean or his designee will communicate the decision to the student in question via certified mail.

Students dismissed from the College for professional or ethical reasons, may appeal to the Ethics and Professional Conduct Committee for readmission to the program. The student should write a letter of appeal to the Ethics and Professional Conduct Committee outlining and supporting their request to be readmitted to the program. The Ethics and Professional Conduct Committee will review the request and recommend appropriate action to the Dean of the College of Pharmacy. The Dean or his designee will communicate the decision to the student in question via certified mail.

Students who have withdrawn from the University or College without administrative support or who have been dismissed from the College for violation of academic or ethical and professional standards will not be allowed to reapply for admission as a first time student, and can only be readmitted to the College via the appropriate committee.

PROFESSIONAL DEGREE PROGRAMS 201

Any decision for readmission to the program may include conditions of remediation or development, including but not limited to repeating all or part of the program the student has already completed, that must be successfully completed for the student to reenter or remain in the program.

DEGREE REQUIREMENTS

In addition to meeting the general requirements for graduation for the University, the candidate for the Doctor of Pharmacy degree must, after completing the requirements of the pre-professional preparatory coursework, be enrolled in the professional pharmacy curriculum for a minimum of four academic years (eight semesters or equivalence) and have earned a minimum grade of C in all courses comprising the degree requirements. Courses graded on a credit (C), no credit (NC) basis are excluded. In addition to meeting minimum course grade requirements, students must meet programmatic requirements for graduation which may include but not be limited to attendance at student convocations, participation in professional development programs and successful completion of progression and/or competency exams. Finally, students must demonstrate the professional maturity and demeanor necessary to succeed in the profession of pharmacy.

COMPUTER LITERACY

Computer literacy for pharmacy majors is defined as an ability to effectively utilize representative commercially available pharmacy applications software in pharmacy practice. Each student must demonstrate computer literacy. Students entering the College of Pharmacy professional program should be well versed in common computer applications such as electronic mail, internet applications, word processing, presentation software, and data management software such as MS Excel^(r) and MS Access^(r). Students who have never used a personal computer for common applications such as word processing are encouraged to complete Computer Science 170 (or equivalent) prior to enrolling in the professional pharmacy program.

EXPERIENTIAL PROGRAM POLICY

The experiential program component of the professional pharmacy curriculum consists of supervised experiences of six weeks duration each to be completed at affiliated practice sites. This experiential component begins with mandatory registration in supervised experiences during the summer preceding both the second and third professional years of the professional program and culminates with additional supervised clinical experiences distributed over an eleven-month period beginning in May of the student's fourth year. To accommodate the non-standard nature of the academic calendar relating to the experiential program in the student's final year, two non-standard academic terms are scheduled. Each term is equivalent in cost to a regular semester but is structured around an academic calendar that is unique to the final year of the Doctor of Pharmacy Program. Students must enroll in their first academic practice experience in the first non-standard term. In addition, students must attend a mandatory practice experience orientation in the month of May preceding the start of experiences. Failure to attend the orientation may result in a delayed graduation.

Although the primary administrative and instructional facilities of the College of Pharmacy are housed at the University of Louisiana at Monroe, the program has numerous off-campus clinical affiliates located inside and outside of Louisiana. Student may be required to relocate for advanced practice experiences in the final year of the program. Because local sites are limited and demand is great, standing in the program, among other criteria, may be used to allocate advanced practice experience sites. The student is referred to the Introductory and Advanced Practice Experience Manuals for complete policy and procedures governing the experiential component of the program.

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	Hrs.
Pharmacy 3001
Pharmacy 3503
Pharmacy 4024
Pharmacy 4033
Pharmacy 4073
Pharmacy 408 .....	.2
Pharmacy 409 .....	.3
Pharmacy 411 .....	.3
Pharmacy 412 .....	.3
Pharmacy 425 .....	.3
Pharmacy 436 .....	.1
Pharmacy 451 .....	.3
Pharmacy 447 .....	.3
Pharmacy 480 .....	.3
Total .....	.38

Second Professional Year**(Summer Term, Fall & Spring Semesters)**

Pharmacy 410 .....	.3
Pharmacy 413 .....	.4
Pharmacy 414 .....	.4
Pharmacy 418 .....	.2
Pharmacy 424 .....	.4
Pharmacy 432 .....	.3
Pharmacy 446 .....	.3
Pharmacy 481 .....	.3
Pharmacy 585 .....	.4
Pharmacy 586 .....	.5
Pharmacy Electives .....	.2
Total .....	.37

Third Professional Year**(Summer Term, Fall & Spring Semesters)**

Pharmacy 385 .....	.2
Pharmacy 445 .....	.1
Pharmacy 454 .....	.3
Pharmacy 503 .....	.2
Pharmacy 515 .....	.3
Pharmacy 574 .....	.3
Pharmacy 587 .....	.5
Pharmacy 588 .....	.4
Pharmacy 589 .....	.2
Pharmacy Electives .....	.8
Total .....	.33

Fourth Professional Year**(Non-Standard Pharmacy Terms I & II)**

Pharmacy 634 .....	.6
Pharmacy 635 .....	.6
Pharmacy 636 .....	.6
Pharmacy 637 .....	.6
Pharmacy 638 .....	.6

PROFESSIONAL DEGREE PROGRAMS 203

Pharmacy 639 .....	.6
Pharmacy 640 .....	.6
Total .....	.42
Total hours for degree, 253 (includes preparatory coursework)	

PHARMACY (PHAR)

Doctor of Pharmacy Requirements

Required for a major: 300, 350, 385, 402, 403, 407, 408, 409, 410, 411, 412, 413, 414, 418, 424, 425, 432, 436, 445, 446, 447, 451, 454, 480, 481, 503, 515, 574, 585, 586, 587, 588, 589, 634, 635, 636, 637, 638, 639, 640 and 10 hours of approved pharmacy electives
- Total of 150 semester hours.

COURSES (See 173-176 of Pharmacy Fields of Study section for additional courses.)

PHARMACY (PHAR)

- 300. INTRODUCTION TO PHARMACY. 1 cr.** An introduction to the pharmacist in society, modes of pharmacy practice, historical perspectives, fundamentals of professional responsibility. Grading will be on a credit, no credit basis. Students receiving a grade of "no credit" must repeat the course. Prerequisite: First Year Pharmacy Standing.
- 301. STRESS AND THE IMPAIRED PROFESSIONAL. 1 cr.** A discussion of factors associated with inappropriate responses to stress leading to impairment of health professionals such as alcoholism, drug dependence, and occupational burnout with emphasis on preventative strategies.
- 302. MEDICAL ETHICS. 2 cr.** The class will address ethical dilemmas the health professionals face in their professional careers. The students will gain keener insight into the problems associated with health care delivery systems and will be prepared to face the ethical problem that will surface with the adoption of reform. Open to majors in the School of Pharmacy only.
- 310. HISTORY OF PHARMACY. 2 cr.** An examination of the historical basis of contemporary pharmacy practice.
- 350. PHARMACY ADMINISTRATION. 3 cr.** Principles of management and functions essential to the distribution of goods and services in the pharmaceutical marketplace. Prerequisites: First Year Pharmacy Standing.
- 385. PATIENT COUNSELING AND COMMUNICATION. 2 cr.** Principles and techniques of communication applicable to pharmacy practice. Prerequisite: Second Year Pharmacy Standing.
- 402. PHARMACEUTICS I. 4 cr.** Fundamentals of measurement and calculation and an introduction to liquid oral dosage forms. Three hours lecture and three hours laboratory per week. Prerequisite: First year pharmacy standing.
- 403. PHARMACEUTICS II. 3 cr.** A study of heterogeneous liquid, semi-solid dosage forms. Transdermal and novel drug delivery systems will be discussed. Prerequisite: 402
- 404. PUBLIC HEALTH SCIENCE. 2 cr.** Development, scope, and methods employed in public health. Principles of biostatistics, epidemiology, environmental sanitation and the study of major health problems are included.
- 406. COMMUNITY HEALTH EDUCATION. 2 cr.** Development of technologies that facilitate changes in health-related behavior that affect individuals, organizations, and social or community systems.
- 407. MEDICINAL CHEMISTRY I. 3 cr.** The biochemical basis of drug action. A molecular biology approach with pharmaceutical orientation will be stressed. Special emphasis will be placed on biochemical catalysis (enzyme structure, kinetics, and regulation), metabolism of major food constituents, nutritional parameters affecting bio-chemical processes, hereditary metabolic diseases, and the basic biochemical processes, hereditary metabolic diseases, and the basic biochemical processes associated with biotechnology. Prerequisite: First Year Pharmacy Standing.
- 408. IMMUNOLOGY & BIOTECHNOLOGY. 2 cr.** A discussion of non-specific host defense mechanisms and a detailed description of specific immunity. Products that impart artificial active and passive immunity are presented. The concept of biotechnology is discussed together with the currently available products of genetic engineering that relate to immunology. The various immunologic disorders and the immunology of cancer are also described. Prerequisite: 411.
- 409. MEDICINAL CHEMISTRY II. 3 cr.** A study of organic compounds of pharmaceutical and medicinal importance with emphasis on chemical structure, relationship of chemical structure to drug action, metabolism, usage, incompatibilities, and syntheses. Prerequisite: 407.

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- 410. MEDICINAL CHEMISTRY III. 3 cr.** Continuation of 409. Prerequisite: 409.
- 411. PHARMACOLOGY I. 3 cr.** Pharmacological, anatomical and physiological basis of drug action. Topics include general principles of therapeutics, pharmacodynamics, pharmacokinetics and toxicology, and the action of drugs in the peripheral nervous system. Prerequisite: First Year Pharmacy Standing, Graduate Student Standing in the College of Pharmacy (nonmajor for non-degree credit only) or by consent of Department Head.
- 412. PHARMACOLOGY II. 3 cr.** Continuation of Pharmacy 411 with emphasis on inflammatory and allergic reactions and the central nervous system. Prerequisites: 411; Credit or registration in 436; or Graduate Student Standing in the College of Pharmacy (nonmajor for nondegree credit only) or by consent of Department Head.
- 413. PHARMACOLOGY III. 4 cr.** Continuation of 412 with emphasis on the cardiovascular, endocrine, renal, and central nervous systems. Prerequisites: 407, 412, 436.
- 414. PHARMACOLOGY IV. 4 cr.** Continuation of 413 with emphasis on the gastrointestinal system, autonomic nervous system, and chemotherapeutic agents. Prerequisites: 413; credit or registration in 418.
- 418. CHEMOTHERAPEUTIC AGENTS. 2 cr.** A study of the chemistry, therapeutic classification, mechanisms of action, toxicity, and spectra of agents currently used in the therapy of infectious and neoplastic diseases. Prerequisites: 408, 412; credit or registration in 409.
- 419. PHARMACOBIOTECH. 3 cr.** A study of the application of biotechnology to pharmaceuticals including drugs, diagnostics, and vaccines. Emphasis is placed on the techniques of biotechnology, recombinant proteins and peptides, monoclonal antibodies, and physiochemical properties, and metabolism of genetically engineered biopharmaceuticals. Prerequisite: 408, 409; credit or registration in 414; or approval of Department Head.
- 421. HERBAL REMEDIES. 3 cr.** A study of herbal preparations and other phytomedicinals widely used by the general public as self-selected OTC products for therapeutic or preventive purposes. Emphasis is placed on the need, safety, and efficacy of herbal preparations, and the role of the pharmacist in product selection. Prerequisite: 409; credit or registration in 414.
- 423. MEDICAL IMMUNOLOGY. 2 cr.** Cellular and serum immunology. Antibody structure and function. Types of antigen antibody reactions. Immunosuppression, tolerance and enhancement. Systems mediating immunologic injury and inflammation. Immunogenetics. Prerequisites: 408, 412, 436.
- 424. PHARMACEUTICS IV. 4 cr.** A study of parenterally administered drugs and specialized delivery systems. Three hours lecture and three hours laboratory per week. Prerequisite: 432.
- 425. DRUG INFORMATION RETRIEVAL AND EVALUATION. 3 cr.** Introduction to services and resources used to provide evaluative information and associated professional responsibilities. Prerequisite: First Year Pharmacy Standing.
- 426. AGING AND DRUG USE IN THE ELDERLY. 3 cr.** An examination of normative and pathological aging and their effect on drug use and response in the aged population. Prerequisite: Credit or registration in 414.
- 432. PHARMACEUTICS III. 3 cr.** The interrelationship between formulation factors and pharmacokinetic aspects of drug absorption, distribution, metabolism, and excretion. Prerequisite: 403.
- 436. PHARMACOLOGY LABORATORY. 1 cr.** A laboratory course to accompany 412. Three hours laboratory. Prerequisite: 411; credit or registration in 412.
- 440. PROFESSIONAL SERVICE ACCESSORIES. 2 cr.** Selection, indications, uses, warnings, maintenance and storage of prescription and non-prescription accessories, durable medical equipment and related items. Prerequisite: Third Year Pharmacy Standing.
- 445. PROFESSIONAL PRACTICE LABORATORY. 1 cr.** Principles and techniques of dispensing extemporaneously prepared and prefabricated products, and relevant aspects of contemporary pharmacy practice. Prerequisites: 432; credit or registration in 454.
- 446. NON-PRESCRIPTION MEDICATIONS AND SELF-CARE. 3 cr.** Selection and use of non-prescription medications for self-treatment of disease or to treat self-limiting disease states. Prerequisite: 410, Credit or registration in 413.
- 447. ETHICS IN PHARMACY PRACTICE. 3 cr.** This course prepares students to distinguish ethical from other kinds of issues in pharmacy, and to identify the options open to a pharmacist faced with an ethical issue.
- 451. PHARMACEUTICAL CARE MANAGEMENT. 3 cr.** The behavioral, ethical, organizational, and pharmaco-economic determinants of medication use management in the delivery of pharmaceutical care. Prerequisite: First Year Pharmacy Standing.
- 453. HEALTH CARE SYSTEMS. 2 cr.** The organization of health care services in the United States, with emphasis on historical development, present characteristics, and future trends.
- 454. LAW. 3 cr.** Local, state and federal laws, rules and regulations relating to the practice of Pharmacy. Prerequisite: Second Year Pharmacy.

PROFESSIONAL DEGREE PROGRAMS 205

- 465. PROBLEMS. 1-3 cr., Maximum 6 cr.** Individual Investigations of selected problems in pharmaceutical chemistry, pharmacognosy, pharmacology, pharmacy, and pharmacy administration. Three hours laboratory work per week per credit hour. Prerequisite: For Pharmacy majors only. Approval of department head.
- 467. PESTICIDES. 2 cr.** Chemicals and drugs which have important application as insecticides, herbicides, fungicides, and rodenticides. Prerequisite: 413.
- 470. HOSPITAL PHARMACY. 2 cr.** The history of hospitals, organization and administration of patient care facilities, distribution of pharmaceuticals to inpatients and outpatients, abilities required of the pharmacist, and the many roles of the pharmacist as a member of the health team. Prerequisites: Second Year Pharmacy Standing.
- 479. NUCLEAR PHARMACY. 2 cr.** Handling and storage of radioisotopes and their application to pharmacy. The official radiopharmaceuticals and non-official radiopharmaceuticals of merit employed in therapy will be considered. Prerequisite: Second year pharmacy.
- 480. INTRODUCTORY COMMUNITY PHARMACY EXPERIENCE. 3 cr.** A one-month introduction to the practice of pharmacy in the community setting. Minimum of 40 hours per week experiential training. Prerequisite: First year pharmacy standing.
- 481. INTRODUCTORY INSTITUTIONAL PHARMACY EXPERIENCE. 3 cr.** A one-month introduction to the practice of pharmacy in the institutional setting. Minimum of 40 hours per week experiential training. Prerequisite: Second year pharmacy standing.
- 489. INTRODUCTORY TOXICOLOGY. 3 cr.** Survey of the occurrence, properties and harmful effects of natural and man-made toxic substances in personal, occupational and global environments. Prerequisites: Credit or registration in Zoology 311, 313, and Chemistry 304.
- 493. CASE STUDIES IN PHARMACY ADMINISTRATION. 2 cr.** Case studies in drug marketing, pharmacy law and ethics, professional relations, and managerial accounting. Prerequisite: 451, 454.
- 494. RETAIL PHARMACY MANAGEMENT. 3 cr.** Principles and problems related to the planning, organizing, and controlling of the retail pharmacy. Prerequisite: 451.
- 496. PHARMACEUTICAL LEGISLATION. 3 cr.** Historical Development of pharmaceutical law and its effect on the practice of pharmacy. Prerequisite: 454.
- 503. PATIENT ASSESSMENT FOR PHARMACISTS. 2 cr.** Utilization of physical assessment findings to evaluate drug therapy needs and response. Prerequisite: Third Year Pharmacy Standing.
- 504. VETERINARY PHARMACOTHERAPY. 3 cr.** Pathogenesis, diagnosis, and rational therapeutic approaches to the treatment of selective disease states in companion animals. Prerequisite: 3rd year pharmacy standing.
- 506. PHARMACY LEADERSHIP I. 3 cr.** Introduction to leadership styles and skills with application through simulated cases and role play of circumstances in the profession of pharmacy. Prerequisites: Second year pharmacy standing and/or consent of the coordinator.
- 515. CLINICAL PHARMACOKINETICS. 3 cr.** The application of pharmacokinetic principles to the safe and therapeutic management of the individual patient. Prerequisites: 432.
- 516. STERILE PRODUCTS. 3 cr.** The theory and application of procedures used in the preparation of sterile products for intravenous and other sterile uses. Prerequisites: 2nd or 3rd year pharmacy standing.
- 521. ADVANCED PHARMACOLOGY. 3 cr.** Cellular and molecular mechanisms of drug action. Prerequisites: 413, 414 or consent of Department Head.
- 524. CLINICAL TOXICOLOGY. 2 cr.** Information on the clinical management of poisonings including the assessment of toxic potential, stabilization of vital function, and specific antidotal measures. Prerequisite: Third Year Pharmacy Standing.
- 559. PHARMACY-BASED IMMUNIZATION DELIVERY. 3 cr.** An innovative and active training program that provides the skills necessary to become a primary source for vaccine advocacy, education and administration. Prerequisite: 3rd year pharmacy standing.
- 560. DEVELOPING AMBULATORY CARE SERVICES. 3 cr.** Teaches aspects of starting services and managing patient specific pharmacotherapy regimens in the ambulatory care setting. Prerequisite: 3rd year standing.
- 561. WOMEN'S HEALTH AND THE PHARMACIST. 3 cr.** Practical information necessary to provide optimal pharmaceutical care to women in a wide variety of practice settings. Includes both social and therapeutic issues. Emphasis placed on drugs in pregnancy/lactation. Prerequisite: 3rd year pharmacy standing.
- 562. BASIC STRATEGIES FOR SCHOLARLY COMMUNICATION. 3 cr.** The student will be responsible for producing professional level education material. The student will produce an article that will be submitted to a pharmacy journal along with a presentation to faculty over their research. Prerequisite: 3rd year pharmacy standing.

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- 563. SELECTED PSYCHIATRIC AND SUBSTANCE ABUSE DISORDER TOPICS. 3 cr.** This course will expand the pharmacy students' exposure to selected topics in behavioral health including pharmacotherapy of selected psychiatric disorders. Prerequisite: 3rd year pharmacy standing.
- 564. PHARMACOGENETICS. 3 cr.** This course will provide students with basic concepts in pharmacogenetics and the role of inheritance on inter-individual variation in drug response. In addition, the class will provide students with an appreciation of how pharmacogenetic and pharmacogenomic fields impact pharmaceutical care. Prerequisites: Pharmacy 411, 412, and 432.
- 574. PHARMACOTHERAPY FORUM. 3 cr.** Experience in making formal oral and written presentations to peer professionals and assessment of the ability to evaluate and apply the literature. Prerequisite: Third Year Pharmacy Standing. Credit or Registration in Pharmacy 588.
- 585. DISEASE PATHOGENESIS AND PHARMACOTHERAPY I. 4 cr.** Pathogenesis, diagnosis and rational therapeutic approaches to treatment of selective disease states in humans. Prerequisite: 408, 412, 425; Credit or registration in 410, 413.
- 586. DISEASE PATHOGENESIS AND PHARMACOTHERAPY II. 5 cr.** Pathogenesis, diagnosis and rational therapeutic approaches to treatment of selective disease states in humans. Prerequisite: 410, 413, 585; Credit or registration in 414.
- 587. DISEASE PATHOGENESIS AND PHARMACOTHERAPY III. 5 cr.** Pathogenesis, diagnosis and rational therapeutic approaches to treatment of selective disease states in humans. Prerequisite: 414, 418, 586.
- 588. DISEASE PATHOGENESIS AND PHARMACOTHERAPY IV. 4 cr.** Pathogenesis, diagnosis and rational therapeutic approaches to treatment of selective disease states in humans. Prerequisite: 414, 418, 587.
- 589. RESEARCH METHODS FOR THE PHARMACIST. 2 cr.** Introduction to the design and common statistical analysis of clinical drug trials. Prerequisite: 425; Third Year Pharmacy.
- 634. ADVANCED COMMUNITY PHARMACY PRACTICE EXPERIENCE. 6 cr.** Application of knowledge skills and attitudes necessary to provide pharmaceutical care in the community pharmacy setting. Experiences include patient triage, disease state management, patient education, follow-up and monitoring as well as medication distribution activities. Fourth Year Pharmacy Standing.
- 635. ADVANCED INSTITUTIONAL PHARMACY PRACTICE EXPERIENCE. 6 cr.** Application of the knowledge skills and attitudes necessary to provide pharmaceutical care and manage the pharmacy practice in the institutional setting. Fourth Year Pharmacy Standing.
- 636. ADVANCED AMBULATORY CARE PHARMACY PRACTICE EXPERIENCE. 6 cr.** Application of the knowledge, skills and attitudes necessary to provide pharmaceutical care in ambulatory care setting. Activities provide exposure to a variety of disease states, and experiences include patient triage, disease state management, and patient education, follow-up and monitoring. Fourth Year Pharmacy Standing.
- 637. ADVANCED ADULT MEDICINE PHARMACY PRACTICE EXPERIENCE. 6 cr.** Application of the knowledge, skills and attitudes necessary to provide pharmaceutical care in acute care settings. Activities provide exposure to a variety of disease states, allowing students to gain experience gathering and evaluating patient data, making therapeutic decisions and monitoring drug therapy. Fourth Year Pharmacy Standing.
- 638. ADVANCED SPECIALTY PHARMACY PRACTICE EXPERIENCE. 6 cr.** Application of the knowledge, skills and attitudes necessary to provide pharmaceutical care in specialty setting. Activities provide a focused exposure to specific areas of pharmacy practice and experiences are focused on providing pharmacy care in these areas of practice. Fourth Year Pharmacy Standing.
- 639. ADVANCED PHARMACY PRACTICE ELECTIVE EXPERIENCE I. 6 cr.** Application of the knowledge, skills and attitudes necessary to provide pharmaceutical care in various settings. Activities provide a focused exposure to specific areas of pharmacy practice and experiences are focused on providing pharmacy care in these areas of practice. Fourth Year Pharmacy Standing.
- 640. ADVANCED PHARMACY PRACTICE ELECTIVE EXPERIENCE II. 6 cr.** Application of the knowledge, skills and attitudes necessary to provide pharmaceutical care in various settings. Activities provide a focused exposure to specific areas of pharmacy practice and experiences are focused on providing pharmacy care in these areas of practice. Fourth Year Pharmacy Standing.

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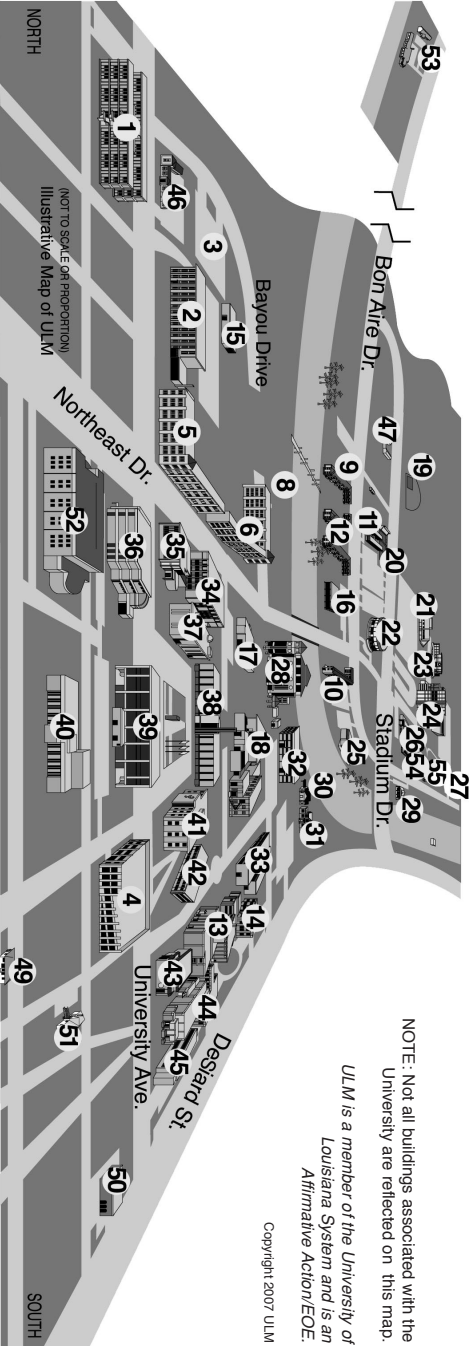
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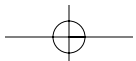
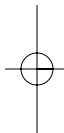
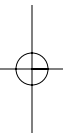


University of Louisiana Monroe CAMPUS MAP

- 1. Madison Hall
- 2. Ouachita Hall
- 3. Parking Addition
- 4. ...
- 5. University Commons I
- 6. University Commons II - Bank, Residential Life, SACS
- 7. ...
- 8. Under Construction
- 9. Bayou Village Apts
- 10. Bayou Suites
- 11. Residence Hall
- 12. Masur Hall
- 13. Bayou Village Apartments
- 14. Brown Hall
- 15. Auditorium, Spiker & Black Box Theatres, Brown Annex
- 16. Schulze Dining Hall
- 17. Clarke M. Williams Student Success Center
- 18. Student Union Building - Post Office
- 19. Softball Field
- 20. Heard Stadium (Tennis)
- 21. Brown Stadium
- 22. Fann-Ewing Coliseum
- 23. Baseball Stadium
- 24. Malone Stadium
- 25. Lake C. Oxford Natatorium
- 26. Activity Center
- 27. University Park Intramural Complex
- 28. University Library
- 29. Anna Gray Noe Alumni Center
- 30. Prob. Services-
- 31. University House
- 32. Strauss Hall
- 33. Stubbs Hall
- 34. Sander Hall
- 35. Visitors Center/Admissions - Bookstore
- 36. Garrett Hall
- 37. Chemistry & Natural Science
- 38. Hanna Hall
- 39. Administration Building
- 40. Nursing Building
- 41. Sugar Hall
- 42. Caldwell Hall
- 43. Sound of Today Band Building
- 44. Biedermann Hall - Recital Hall
- 45. Filhol Hall
- 46. Student Health and Counseling Center
- 47. Physical Plant
- 48. Child Development Center
- 49. ULM Police
- 50. University Advancement
- 51. Testing Center
- 52. Hemphill Arvey and Computer Science Building
- 53. Marriage & Family Therapy Complex
- 54. Golf Office
- 55. Institute of Gerontology



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