

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

**Catalog of Graduate and
Professional Programs
2005-2006**

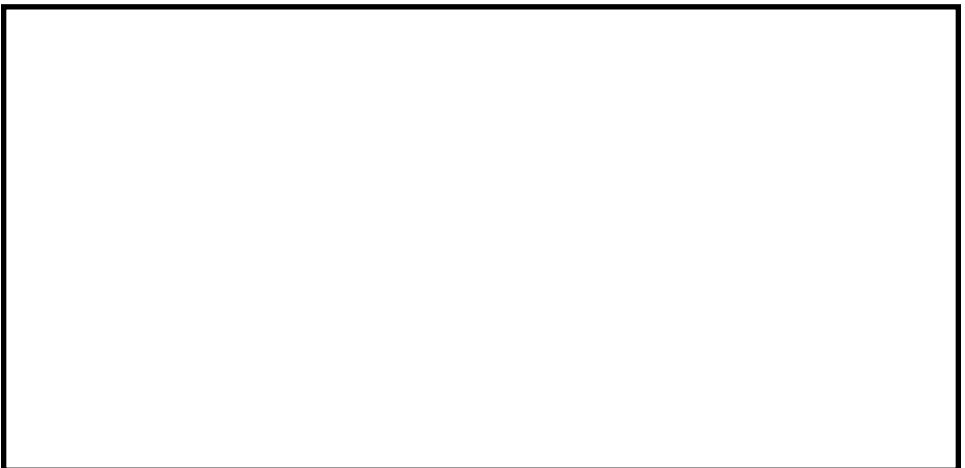


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UNIVERSITY CALENDAR

2005

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THE ACADEMIC YEAR, 2005-2006

SUMMER TERM, 2005

FIRST SUMMER SESSION, 2005

MAY

30	Mon	Memorial Day Holiday
31	Tue	Residence halls open for students

JUNE

1	Tue	Late Registration
1	Wed	Classes begin
2	Thu	Final date for adding courses for credit or making course changes
7	Tue	Final date for making application for comprehensive examination and application for degree for August commencement
13-17	M-F	Preliminary examinations for doctoral students
14	Tue	Final date for removing "I" grades
17	Fri	Final date for filing field study, thesis, or dissertation with Graduate Advisory Committee
21	Tue	Final date for dropping courses or resigning from the University; a "W" grade is issued
30	Thu	Student Study Day

JULY

1	Tue	Final date for filing field study, thesis or dissertation with Graduate Studies and Research
1	Mon	Final Examinations
4	Fri	Holiday
6	Wed	Grades due in Office of the Registrar before 10:00 a.m. Term ends 12:00 Noon

SECOND SUMMER SESSION, 2005

JULY

7	Wed	Late Registration
8	Fri	Classes begin
11	Mon	Final date for adding courses for credit or making course changes
13-19	W-Tu	Comprehensive examinations for graduate students
21	Thu	Final date for removing "I" grades
28	Thu	Final date for dropping courses or resigning from the University; a "W" grade is issued

AUGUST

8	Mon	Final Examinations
10	Wed	Grades due in Office of the Registrar before 10:00 A.M.
13	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.

FALL SEMESTER, 2005**AUGUST**

15-19	M-F	Faculty Development Activities
18	Thu	Residence halls open for students
22	Mon	Classes begin
24	Wed	Final date for adding courses for credit or making course changes

SEPTEMBER

5	Mon	Labor Day Holiday
6	Tue	Final date for making application for comprehensive examination and application for degree for December commencement
19	Mon	Final date for removing "I" grades

OCTOBER

6-7	Th-F	Fall Holiday
10-12	M-W	Mid-Term Grading
10-14	M-F	Preliminary examinations for doctoral students
14	Fri	Final date for filing field study, thesis, or dissertation with Graduate Advisory Committee
28	Fri	Final date for filing field study, thesis, or dissertation with Graduate Studies and Research
31	Mon	Comprehensive examination for graduate students

NOVEMBER

1-4	Tu-F	Comprehensive examination for graduate students
1	Tue	Final date for dropping courses or resigning from the University; a "W" grade is issued
23-25	W-F	Thanksgiving Holidays begin Wednesday at Noon
28	Mon	Classes resume, 8:00 A.M.

DECEMBER

5-6	M,Tu	Final Examinations
7	Wed	Student Study Day
8-9	Th,F	Final Examinations
13	Tue	Grades due in Office of the Registrar before 10:00 a.m.
17	Sat	Commencement, 2:00 P.M. Semester ends, 12:00 Midnight
19	Mon	University Offices Closed from December 19 through Jan. 2, 2006

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, 2006

FIRST SUMMER SESSION, 2006

MAY

31 Wed Residence Halls open for students

JUNE

2 Fri Classes begin
 5 Mon Final date for adding courses for credit or making course changes
 6 Tue Final date for making application for comprehensive examination and application for degree for August commencement
 12-16 M-F Preliminary examinations for doctoral students
 15 Thu Final date for removing "I" grades
 16 Fri Final date for filing field study, thesis, or dissertation with Graduate Advisory Committee
 22 Thu Final date for dropping a course or resigning from the University; a "W" grade is issued

JULY

3 Mon Final date for filing field study, thesis or dissertation with Graduate Studies and Research
 3 Mon Final Examinations
 4 Tue Holiday
 6 Thu Grades due in Office of the Registrar before 10:00 A.M.
 Term ends 12:00 Noon

SECOND SUMMER SESSION, 2006

JULY

7 Fri Classes begin
 10 Mon Final date for adding courses for credit or making course changes
 12-18 W-Tu Comprehensive examinations for graduate students
 20 Thu Final date for removing "I" grades
 27 Thu Final date for dropping courses or resigning from the University; a "W" grade is issued

AUGUST

7 Mon Final Examinations
 9 Wed Grades due in the Registrar's Office before 10:00 A.M.
 12 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.

GENERAL INFORMATION

PURPOSE/MISSION OF THE UNIVERSITY

The University of Louisiana at Monroe (UL Monroe) 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. UL Monroe values the continued development of mutually beneficial partnerships involving school, governmental, business, and a variety of community-based agencies.

UL Monroe 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. UL Monroe 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 of Trustees for State Colleges and Universities effective May, 1975.

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 offered. On August 27 of 1999, the University officially changed its name to The University of Louisiana at Monroe.

The student body at the University was approximately 8,834 students for the Fall Semester of 2004. Enrolled are students from every parish in Louisiana, along with many 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 of approximately 150,000. Beautiful Bayou DeSiard flows through the 227-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 Municipal Airport, three miles east of the University, is served by Continental Airlines, Delta 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.

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 associate, bachelor's, master's, educational specialist and doctoral degrees. The teacher-preparation programs at the bachelor's, master's, and specialist 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, The Conference of Southern Graduate Schools, the American Council for Construction Education, and the 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.

COSTS

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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 \$357.00.

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.

ROOM AND MEAL CONTRACTS. Room and meal contracts are executed on a semester basis. Charges are as follows:

Room & Meals	Semester	Summer Session
Double occupancy	\$1,435	\$475
Private room	\$1,860	\$575

STUDENTS OVER 60 YEARS OF AGE. Students who are 60 years of age or older will receive a full waiver of tuition each registration, subject to legislative funding. The student must present proof of age (birth certificate, driver's license, etc.) to the Student Financial Aid Office in order to receive this waiver.

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.

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 \$10 for each regular semester and \$5 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.

TELECOURSE FEE - A student pays a \$40 Louisiana Public Broadcasting Service licensing fee for each telecourse in which he enrolls.

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

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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.
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.

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.

INDIAN EXPRESS

Indian Express is a 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 your photo ID reduces the risk of theft.

Indian Express 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 your Indian Express account, you will have convenient purchasing power at numerous locations on campus: Bookstore, Concession Stands, Athletic Events, Convenience Store, Cafeterias, Coffee Shop, Union Board Events, Library, Washers/Dryers, Vending Machines. When you make purchases, your remaining balance will be electronically displayed so you will always know how much money remains in your 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

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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.

Mr. Paul M. Karlowitz, Director, (318) 342-1782
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.

Dr. Jerry Wall, Director, (318) 342-1215
Administration Building 2-101

Climatic 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.

Dr. Lynn L. LeBlanc, Director, (318) 342-1892
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

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

Dr. Charlotte Owens, Director, (318) 342-1853
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

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.

Dr. Velma M. Butler, Director (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 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. M. Christopher Washam, Director, (318) 342-1310
Ewing Coliseum 50-C

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.

Dr. Lesa Lawrence, (318) 342-1710
Sugar Hall 152

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

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in cancer research with the state organization, and is a clinical site for Medical Information students from Louisiana Tech University.

Ms. Judy Thomas, 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

Occupational Therapy Clinics

The Clinics provide university students an opportunity to apply theory and enrich course work through directed observation and participation in the provision of occupational therapy services. Occupational therapists work with psychological, physical and developmental disabilities and specialty areas such as geriatric, burn, and cardiac cases. The clinics prepare students for Level II Fieldwork.

One Clinic treats the special needs of children with developmental disabilities, while the other Clinic treats adults and children with physical disabilities.

Ms. Kathryn H. Davis, Program Director, (318) 342-1610
Caldwell Hall 111

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 Health Sciences, (318) 342-1600
Sugar Hall 151

Small Business Entrepreneurship Studies Center

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 and graduate programs 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 acquire a focus in entrepreneurship 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

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.

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

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.

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

MUSEUMS AND GALLERIES

Bry Art Gallery

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

The Botany Division features an herbarium of more than 320,000 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. Open weekdays 8:00 a.m. to 4:30 p.m. Closed weekends and holidays.

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.

Dr. Frank Pezold, Curator, (318) 342-1868; email:pezold@ulm.edu
Garrett 101

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 paintings, 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 nine residence halls. Facilities for women students are: Breard (guaranteed private), Lemert, Ouachita, and Slater Halls, located on the west side of Bayou DeSiard

Harris Hall is an all-male private room hall located on the west side of Bayou DeSiard.

Our co-ed halls are Masur, Madison, and Monroe. Masur Hall is located on the east side of Bayou DeSiard. Monroe and Madison Halls are located on the west side of Bayou DeSiard. Monroe Hall is a scholastic resident hall for those with a cumulative grade point average of 3.0 or higher.

Cosper Hall is a female sorority resident hall with community bath areas. It is located on the west side of Bayou DeSiard.

Three dining facilities are located on campus. Schulze Cafeteria is located on the east side of Bayou DeSiard. The Wigwam Food Court, a stand alone facility, is located on the west side of the Bayou. Chick-fil-A, a popular fast food restaurant, is located also 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.

GRADUATE DEGREE PROGRAMS

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 Director of Graduate Studies and Research, 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. Kim Marie Tolson
Dr. Gordon Harvey, Council Secretary
Dr. Helen Lock

College of Business Administration

Dr. Donna Luse
Dr. Carl Kogut
Dr. Michelle McEacharn

College of Education and Human Development

Dr. Joyce Choate
Dr. Charles Pryor
Dr. Chris Washam

College of Health Sciences

Dr. Karen Briski

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 Director of Graduate Studies and Research, 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. Tom Sasek
Dr. John Carr
Dr. Jay Bulot
Dr. Harold Williamson

College of Business Administration

Dr. Jerry Wall
Dr. Mingsheng Li

College of Education and Human Development

Dr. Kendal Honea
Dr. Joe McGahan

College of Health Sciences

Dr. George Roberts
Dr. Paul Sylvester, Council Chair

Dr. Virginia J. Eaton (ex-officio), Director, Graduate Studies and Research

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

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 Office of Graduate Studies and Research.

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 Office of Graduate Studies and Research 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 submit results of the Graduate Management Admission Test (GMAT). 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, GMAT, 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

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 600, 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 Office of Graduate Studies and Research 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

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.

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 Office of Graduate Studies and Research 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)

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 Office of Graduate Studies and Research 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 LOUR S432 - 646/71, 7089-799, 0001 Tc -

feedback for students to use in evaluating individual progress and making

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 Registrar's website (registrar.ulm.edu) to learn the website address where grades may be viewed and downloaded or to obtain the toll-free number to call and receive 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~~ NAME CHANGES

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 credit, nor will they be permitted to take credit examination (departmental exams)

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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 Director of Graduate Studies and Research. 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 Director of Graduate Studies and Research 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 dean 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.
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 Director of Graduate Studies and Research, 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 Director of Graduate Studies and Research, 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 Director of Graduate Studies and Research. A field study or thesis, if required, will be submitted to the student's graduate advisory committee for approval, then to the Director of Graduate Studies and Research 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.

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 Director of Graduate Studies and Research by the date indicated in the University Calendar for the semester or summer term in which the degree is to be awarded.

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 Office of Graduate Studies and Research, 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. Regulations governing comprehensive examinations for doctoral 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 Office of Graduate Studies and Research 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 Director of Graduate Studies and Research 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 Director of Graduate Studies and Research, 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 Director of Graduate Studies and Research.

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 Director of Graduate Studies and Research.

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 Director of Graduate Studies and Research.

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

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the Office of Graduate Studies and Research 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 \$55 which provides for microfilming of the complete dissertation and for publication of an abstract not to exceed 600 words.

A binding fee of \$9.50 per volume for the required copies of the field study, thesis, or dissertation must be paid at the "Indian Bank," and the receipt submitted to the Office of Graduate Studies and Research.

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 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 Office of Graduate Studies and Research, 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 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 Director of Graduate Studies and Research.

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 Office of Graduate Studies and Research, 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 appropriate academic dean or university administrator and approved by the Director of Graduate Studies and Research.

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

COLLEGE OF ARTS & SCIENCES

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.

AVIATION

**The Col. William T. Hemphill Airway & Computer Science Building 137
(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.

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.

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 ergraduate course prerec 00.mester hours of chemistry.

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.

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

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

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 Geosciences degree program will meet the following criteria:

1. A minimum score of 900 on the GRE General Test (Verbal plus Quantitative).
2. A minimum undergraduate grade-point average of 2.8 during the junior-senior years, or a 3.0 in all Geosciences courses which must total at least 21 semester hours.

Applicants who fail to meet the above standards may be admitted on conditional status as recommended by the Graduate Faculty of the Department of Geosciences in concert with the Director of Graduate Studies and Research. Applicants who do not present a score of 900 on the GRE General Test (Verbal plus Quantitative) must achieve such a score within six months after their conditional admission or after the completion of twelve semester hours, whichever comes first.

PROGRAM REQUIREMENTS: Undergraduate requirements: Bachelor's degree from an accredited institution with a major in geosciences or a related area; selected undergraduate background courses in Geosciences may be required.

Requirements for a major: 30 semester hours of geosciences and related courses, including Geosciences 599 of which a maximum of six hours may be used on the degree plan. All students will participate in a weekly seminar and enroll in Geosciences 416 for at least three semesters.

GERONTOLOGY AND SOCIOLOGY

M.A. in Gerontology

Certificate in Gerontological Studies

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

Areas of concentration 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 Director of Graduate Studies and Research. The student's admission may be changed to regular if they have earned a 3.25 on the first 6 hours of gerontology graduate hours pursued.

PROGRAM REQUIREMENTS (M.A. in Gerontology): Requirements for a degree in Gerontology with an concentration 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 concentration 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 concentration 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 concentration 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 waiver of the internship/thesis requirement and take six additional hours of gerontology electives.

Requirements for the degree in Gerontology with an concentration 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 concentration must write

HISTORY AND GOVERNMENT

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.

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 criterion:

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 Director of Graduate Studies and Research.

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.

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.

research and exploration of sculptural processes and techniques as a means of individual creative expression.

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

COLLEGE OF BUSINESS ADMINISTRATION

BUSINESS ADMINISTRATION

College of 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 the AACSB, the International Association for Management Education.

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 Director of Graduate Studies and Research. 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 400), 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 or ensure rejection.

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 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 concentration in E-commerce must elect CINS 510, 530, and 535 instead of the six semester hours of electives in the field of business administration.

Students desiring a concentration in Entrepreneurship must elect Entrepreneurship 531, 532, and 533 instead of the six semester hours of electives in the field of business administration.

Students desiring a concentration 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 concentration 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.)

**COLLEGE OF EDUCATION AND
HUMAN DEVELOPMENT**

CURRICULUM AND INSTRUCTION

Strauss Hall 208

(318) 342-1266

DEGREES: M.Ed. in Elementary Education
M.Ed. in Reading
M.Ed. in Secondary Education
M.Ed. in Special Education
Ed.D. in Curriculum and Instruction (see Doctor of Education)
M.A.T. in Early Childhood Alternative Certification
M.A.T. in Elementary Education Alternative Certification
M.A.T. in Secondary Education Alternative Certification
M.A.T. in Special Education Alternative Certification

MINOR REQUIREMENTS:

and Instruction 558 or Educational Foundations 581; 3 semester hours in Curriculum and Instruction courses selected from 557, 559, 572, 583; and 6 semester hours selected from any Curriculum and Instruction courses or Counseling 510, 566 or Educational Foundations 524, 581; or Educational Administration and Supervision 521, 523, 644. An additional six semester hours in either Curriculum and Instruction or an approved content area are required for a total of 36 semester hours for the degree.

Requirements for a minor: 6 semester hours in Curriculum and Instruction courses selected from 519, 542, 555, 556, 558, 573, 652, and 3 semester hours in Curriculum and Instruction courses selected from 557, 559, 572, 583, and 3 semester hours selected from any Curriculum and Instruction courses.

PROGRAM ADMISSION FOR:

ELEMENTARY EDUCATION ALTERNATIVE CERTIFICATION (M.A.T.)

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

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); 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. TeachNortheast screening assessment requirements.

PROGRAM REQUIREMENTS (M.A.T. in Special Education Mild/Moderate 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. 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.

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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.

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 resume 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 or receipt of more than six semester hours of C in graduate coursework, may result in termination from the program. The student must successfully 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 sixty 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 45 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	18 semester hrs.
III. Cognate	9 semester hrs.
IV. Elective	3 semester hrs.
V. Internship	6 semester hrs.
VI. Dissertation	9 semester hrs.
Minimum Total hrs.	60 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 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 student's Doctoral Committee. 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. Eons m W0 scfu Tf 9 0 0 nbidjTJwniquent c027 catorsinationstion. F-5ensi4eb208mu

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Residence Requirements for the Doctor of Education Degree

Students pursuing the Doctor of Education degree will be required to spend at least two consecutive semesters/quarters in residence on the campus from which the degree is to be awarded. 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 nine 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 seven year time period from date of admission to the program. Courses transferred into the doctoral program must also be within the seven 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 seven-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 Office of Graduate Studies and Research.

Policies and Procedures

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

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

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 grade-point average of 2.8 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 of 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).

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 Instructional 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 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).

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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 Instructional 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.

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 in an appropriate social science discipline; such as, marriage and family therapy, counseling, psychology, sociology, psychiatric nursing, pastoral counseling, or social work. The master's degree should include graduate course work or provide evidence that previous graduate studies included the following or courses substantially equivalent: Human Growth and Development, Assessment, Introduction to Counseling Theory/Practice, Group Dynamics or Group Counseling, Research Statistics and Design, Introduction to Marriage and Family Therapy, Marriage and Family Development, Legal and Ethical Issues, and Supervised Practicum in Marriage and Family Therapy.

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 class-

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 Office of Graduate Studies and Research 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 Administration and Supervision and Ed.D. in Educational Leadership (see Doctor of Education)

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

PROGRAM ADMISSION (M.Ed. in Administration and Supervision): In addition to the University requirements for admission to the Graduate School at ULM, applicants for admission to the Master of Education in Administration and Supervision program must present a combined score of 1875 on a scale which is found 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, upon request, additional information to the Department of Instructional Leadership and Counseling. Requested material must be on file before the applicant can be reviewed for admission.

PROGRAM REQUIREMENTS (M.Ed. in Administration and Supervision): A candidate for this major/degree must hold a valid teacher's certificate of graduate specialization issued by the Louisiana State Department of Education or its equivalent. Only those students specializing in the Instructional Technology program (Non-School Emphasis) are exempt from this requirement.

Requirements for Elementary Principal: 36 semester hours including Educational Administration and Supervision 501, 514, 515, 521, 619, 634, 684; Elementary Education 533; Educational Foundations 581; 554 or 654; 626 or 627; and three semester hours selected from Educational Administration and Supervision 513, 618 or Educational Foundations 430D, for a total of 36 semester hours for the degree.

Requirements for Secondary Principal: 36 semester hours including Educational Administration and Supervision 501, 514, 515, 521, 619, 644, 684; Curriculum and Instruction 542; Educational Foundations 581; 554 or 654; 626 or 627; and three semester hours selected from Educational Administration and Supervision 513, 618 or Educational Foundations 430D, for a total of 36 semester hours for the degree.

Requirements for Supervision of Instruction: 36 semester hours including Educational Administration and Supervision 501, 514, 521, 622, 684; Elementary Education 533; Curriculum and Instruction 542; Educational Foundations 581; 554 or 654; 626 or 627; and 6 semester hours of approved electives, for a total of 36 semester hours for the degree.

Requirements for a minor (Elementary Principal): 12 semester hours of education, including Educational Administration and Supervision 501, 521, 634; and Educational Foundations 581.

Requirements for a minor (Secondary Principal): 12 semester hours of education, including Educational Administration and Supervision 501, 521, 644; and Educational Foundations 581.

Basic core requirements for Instructional Technology Leadership: 30 semester hours, including Educational Foundations 525, 527, 555, 581, 625, 626, 627, 628, 680, and EDAS 618. Electives include 6 hours chosen from Educational Administration and Supervision 514, 515, and Curriculum and Instruction 482 or 485 at the graduate level.

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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 Director of Graduate Studies and Research.

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 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. The Specialist program is accredited by the National Association of School Psychologists.

When a student is admitted to the Specialist in School Psychology degree program, the Director of Graduate Studies and Research, upon the recommendation of the Department Head, will appoint a major professor. Upon recommendation of the major professor, the Director of Graduate Studies and Research 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 Director of Graduate Studies and Research.

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 Office of Graduate Studies and Research 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 Director of Graduate Studies and Research 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

COLLEGE OF HEALTH SCIENCES

PHARMACY
School of Pharmacy
Sugar Hall 151

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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 School 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 School of Pharmacy Graduate Studies Committee, the Dean and the Director of Graduate Studies and Research.

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 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 School of Pharmacy Graduate Studies Committee, and be reviewed by the department head. Final approval is granted by the Director of Graduate Studies and Research. The

forms for filing the degree plan are obtained from the office of the Dean of the College of Health Sciences.

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 Office of Graduate Studies and Research 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

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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.

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 ROLA.p 3 cr208.39.00j3 AELIEF 648H hmerind, Asiatic and**

- 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.**

- 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 non-mathematical 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

- 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)
- 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

- 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)

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.

- 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: 205 or equivalent, Accounting 213; 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, 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: I.ss .6277 Tw Y3lr1u1h823l-s9pead0.8(,)0(even ySp, Sum IradualIT Q q 1 i 0 648 432 -648

- 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 COMMUNICATIVE DISORDERS. 3 cr.** A quantitative and qualitative study of

579. PEDIATRIC AUDIOLOGY. 3 cr. The principles of audiological assessment and rehabilitation of the pediatric population. Prerequisite: 480 or equivalent.

COMPUTER SCIENCE (CSCI)

For Undergraduates and Graduates

411. OPERATING SYSTEMS. 3 cr. Theory and implementation of operating systems including process

- 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

- 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.)
- 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.
- 581. RESEARCH. 3 cr.**

**CRIMINAL JUSTICE
(CJUS)**

- 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 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

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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.
- 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. EVALUATING STUDENT PROGRESS. 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 Credit .0278 Tw (GradesAipline; C.. t Tw Mques olog te; Dd tor advanhang)]

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- 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 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

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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. **LANGUAGE EXPERIENCES FOR EARLY CHILDHOOD EDUCATION. 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 ELEMENTARY 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.**

- 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).
- 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. 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..**

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- 474. **EIGHTEENTH CENTURY. 3 cr.** Major English writers of the Augustan and Johnsonian periods.
- 475. **ROMANTIC MOVEMENT. 3 cr.** Works of major writers of the Romantic period, with emphasis on Wordsworth, Coleridge, Byron, Shelley, and Keats.
- 476. **VICTORIAN PERIOD. 3 cr.** Works of major writers, with emphasis on Tennyson, Browning, and Arnold.
- 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 JACOBEAN 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.

- 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 Graduates Only

- 531. ENTREPRENEURSHIP. 3 cr.** The role of entrepreneurs, entrepreneurship, and intrapreneurship in society. Entrepreneurship theory. Special attention given to exploring the unique aspects of entrepreneurship including identifying, assessing, and developing business ideas—practical entrepreneuring. Prerequisite: Accounting 502 or equivalent.
- 532. NEW VENTURE CREATION. 3 cr.** Creating and starting a new venture; developing, planning, and financing a new enterprise; and insuring the success of new ventures during growth. Recreating the enterprise; managing for succession; and harvesting an entrepreneurial venture. Prerequisite: Accounting 502 or equivalent.
- 533. ENTREPRENEURIAL AND SMALL BUSINESS PROBLEMS. 3 cr.** Consideration of the problems peculiar to entrepreneurial ventures and small business firms regarding personnel, finance, marketing, production, and general management, and family/closely held business issues. Practicum. Prerequisite: Accounting 502 or equivalent.

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:

**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 t 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.

- 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.
- 473. APPLIED LINGUISTICS. 3 cr.** The application of linguistic theory to the teaching of language. Prerequisite: 202 or equivalent. (Same as Spanish 473.)
- 474. SECOND LANGUAGE ACQUISITION. 3 cr.** The application of second language acquisition theory in the classroom. Prerequisite: French 473.

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.
- 525-526. APPLIED LINGUISTICS. 3 cr. each.** The structure of the French language and its application in the classroom. Prerequisite: 202 or 205. (Same as Spanish 473.)

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.
- 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.

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- 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**To disruption, dispersal, and the implementation of the reservation system. (Same as Ant6ruw2 Prerequisites: 101, 102.

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515. ADVANCED VERTEBRATE PALEONTOLOGY. 2 cr. Comparative osteology of the vertebrates,

- 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.TCoste Physigraphyc IPovencle Prerequisites: J302-33, 1eology 1417,4275-426

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- 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.)

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

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.

HISTORY

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- 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.
- 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.
- 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.
- 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.)

- 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

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513. THE AMERICAN HERITAGE. 3 cr. A social and intellectual history of the United States from

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 Administrssecrc5Ehretiopbl)

**LOUISIANA EDUCATION CONSORTIUM
(LEC)**

For Graduates Only

- 700. INTRODUCTION TO DOCTORAL RESEARCH DESIGN. 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.
- 701. UTILIZING TECHNOLOGY FOR STATISTICAL ANALYSIS IN EDUCATION. 3 cr.** This course surveys procedures for using the computer in text editing, data management, and statistical

- 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.
- 776. INTERNSHIP SEMINAR. 3 cr.** The seminar provides opportunities to discuss and critique internship activities. May be taken concurrent with or prerequisite to LEC 777.
- 777. INTERNSHIP. 3 cr.** This course is a supervised on-site educational experience in curriculum, instruction, supervision, or administration. Pre- or co-requisite: LEC 776.
- 799. DISSERTATION. 3-9 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.

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)

- 582. LITERATURE OF ELECTRONIC MEDIA. 3 cr.** Critical methodologies and analysis of electronic media content and programming, emphasizing aesthetic, historical, social, cultural and industrial factors affecting audience response.
- 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.
- MATHEMATICAL. 3 cr.**

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. 9.00Q q 1 i 5re W n BT /F10

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483. WOODWIND LITERATURE. 3 cr. Solo and chamber music written for woodwind instruments.
Prerequisite: 193.

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.
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.

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- 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.

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 peri-operative 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 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.)
- 413. PHARMACOLOGY III. 4 cr.** Continuation of 412 with emphasis on the cardiovascular, renal, and respiratory systems. Prerequisites: 407, 412, 436 or Consent of Department Head.

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- 414. PHARMACOLOGY IV. 4 cr.** Continuation of 413 with emphasis on the gastrointestinal system, endocrine system, reproductive 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. PHARMACOBIO TECHNOLOGY. 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 physiochemical 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

- 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.
- 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.** S81.497yc552. SEMINAR. 1 cr.

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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.
- 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. Prerequisite: 25.000 or consent of instructor.

- 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 which 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.

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.

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- 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.

PSYCHOLOGY (PSYC)

For Undergraduates and Graduates

- 401. ABNORMAL. 3 cr.**

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.

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. **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 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.
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.)

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- 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.)
- 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.)
- 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)

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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.
- 473. **APPLIED LINGUISTICS. 3 cr.** The application of linguistic theory to the teaching of language. Prerequisite: 202 or 205. (Same as French 473.)
- 474. **SECOND LANGUAGE ACQUISITION. 3 cr.** The application of second language acquisition theory in the classroom. Prerequisite: Spanish 473.

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

- 504. DEVELOPMENTAL ASSESSMENT OF PRE-SCHOOL CHILDREN WITH SPECIAL NEEDS. 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.)
- 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. CURRICULUM AND METHODS FOR EARLY CHILDHOOD SPECIAL EDUCATION. 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.)
- 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 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. APPRAISAL AND EVALUATION OF EXCEPTIONAL CHILDREN. 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.

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- 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.
- 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.
- 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 COMMUNICATION (SPCH)

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.
- 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.
- 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, 9 cr.** 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

- 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.

GRADUATE FACULTY

***Fredrick Adams**, Assistant Professor of Foreign Languages
Ph.D. University of Louisiana at Lafayette

***Larry R. Anderson**, Associate Professor of Music and Director, Jazz and Percussion Division

Ralph Brown, Assistant Professor of History
Ph.D., University of Tennessee, Knoxville

***Ernest E. Bruce**, Associate Professor of Aviation
M.B.A., The University of Louisiana at Monroe

Frank N. Bruscato, Associate Professor of Chemistry

Herbert Bryant, Professor of English
Ph.D., University of Tennessee

Linda Bryan, CCC-SLP, Assistant Professor of Communicative Disorders
Ph.D., University of Louisiana at Lafayette

***James Bulot**, Assistant Professor of Gerontology
Ph.D., University of Massachusetts

Velma M. Butler, Associate Professor of Family and Consumer Sciences
Ph.D., Oklahoma State University

Bob N. Cage, Professor of Educational Leadership and Coordinator of Ed.D.
Consortium Program
Ph.D., Iowa State University

Michael A. Camille, Associate Professor of Geography and Interim Head, Department of
Geosciences
Ph.D., Texas A&M University

Henry Wilson Campbell, Associate 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

Paulette Cappel, Assistant Professor of Social Work
M.S.W., La. State University; L.C.S.W., LA

John L. Carr, Associate Professor of Biology
Ph.D., Southern Illinois University at Carbondale

Holly B. Casey, Assistant Professor of Educational Leadership
Ed.D., The University of Louisiana at Monroe

***Sharon C. Chaney**, Assistant Professor of Dental Hygiene
M.P.S., Loyola University

Richard Bruce Chardkoff, Professor of History
Ph.D., Florida State University

Laurie Charles, Assistant Professor of Marriage and Family Therapy
Ph.D., Nova Southeastern University

M. Sean Chenoweth, Assistant Professor of Geography
Ph.D., University of Wisconsin

Joyce S. Choate, Professor of Education and Associate Dean of the College of
Education and Human Development
Ed.D., University of Memphis

***Tommie M. Church**, Instructor of Kinesiology
M.Ed., Northeast Louisiana University

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***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

Charles L. Cole, Professor of Marriage and Family Therapy
Ph.D., Iowa State University

***Michael B. Cockerham**, Associate Professor of Clinical Pharmacy Practice
Pharm.D., Idaho State University

***Henry S. Cole**, Associate Professor and Interim Head, Department of Management and Marketing
D.B.A., Louisiana Tech University

Lisa Cooper Colvin, Professor of Kinesiology
Ph.D., University of Southern Mississippi

June F. Conway-Bruyninckx, Associate Professor of Family and Consumer Sciences
Ph.D., Texas Woman's University

Jan B. Corder, Professor of Nursing and Associate Dean, College of Health Sciences,
Director, School of Nursing
D.S.N., University of Alabama at Birmingham

Jose L. Cordova, Associate Professor of Computer Science
Ph.D., Mississippi State University

Jean Cottingham, Assistant Professor of Psychology
Ph.D., University of Southern Mississippi

Walter N. Creekmore, Professor of Education
Ph.D., University of North Carolina

Pearson Cross, Assistant Professor of Government
Ph.D., Brandeis University

Sharon F. Cruse, Assistant Professor of Chemistry
Ph.D., Northeast Louisiana University

***Kathryn Davis**, Assistant Professor of Occupational Therapy
M.A., Louisiana Tech University

***Sally Davidson**, Associate Professor of Aviation
Ed.S., The University of Louisiana at Monroe

Michael D. Degennaro, Associate Professor of Pharmaceutics
Ph.D., University of Georgia

René De Hon, Professor of Geology
Ph.D., Texas Tech University

Melgardt de Villiers, Associate Professor of Pharmaceutics
Ph.D., Potchefstroom University

Rebecca Dodson-Webster, Associate Professor of Music
D.M.A., University of Wisconsin-Madison

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 and Director, Graduate Studies and Research
Ed.D., Vanderbilt University

Robert C. Eisenstadt, Associate Professor and Head, Department of Economics and Finance
Ph.D., Georgia State University

Khalid El Sayed, Assistant Professor at Medicinal Chemistry
B.S., M.S., Ph.D., Mansoura University

Sherlyn Ezell-Powell, Assistant Professor of Curriculum and Instruction
Ed.D., University of Alabama

Carlos D. Fandal, Professor of Foreign Languages and Dean, College of Arts and

Anna M. Hill, Associate Professor of Biology
Ph.D., University of Notre Dame

Ronald A. Hill, Associate Professor of Medicinal Chemistry
Ph.D., Ohio State University

***August M. Hochenedel, Jr.**, Associate Professor of Dental Hygiene
D.D.S., University of Tennessee

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
Livestock Advisor
Ph.D., New Mexico State University

Glenda Holland, Associate Professor of Educational Leadership and Assistant Dean of

Terry Lyle Jones, Professor of History
Ph.D., Texas A&M University

Mara Loeb, Associate Professor of Speech Communication and International Student Advisor
Ph.D., Southern Illinois University-Carbondale

Derle R. Long, Assistant Professor of Music and Director of Bands
M.M., Louisiana State University

David L. Loudon, Professor of Marketing
Ph.D., Louisiana State University

Jean Mary Low, Associate Professor of Psychology
Ph.D., Tulane University

Otis K. LoVette, Professor of Educational Leadership
Ed.D., Oklahoma State University

***Sandra K. Lunte**, Biedenharn Professor of Music
D.A., Ball State University

Donna Walton Luse, Professor of Business Communications, Associate Dean and Graduate Coordinator
Ph.D., University of North Texas

Aubrey Dale Magoun, Professor and Head, Department of Computer Science, Mathematics and Physics
Ph.D., University of Louisiana at Lafayette

***Mark McCleery**, Instructor in Music
M.M., Louisiana State University

John Fleming McClelland, Professor of English
Ph.D., University of Georgia

***Deborah McClung-Guillory**, Assistant Professor of Music
M.M., Southern Methodist University

Charles W. McConkey, Professor of Marketing
Ph.D., North Texas State University

William G. McCown, Associate Professor of Psychology
Ph.D., Loyola University-Chicago

E. Michelle McEacharn, Professor and Head, Department of Accounting
D.B.A., Louisiana Tech University; C.P.A., Louisiana

Joseph R. McGahan, Professor of Psychology
Ph.D., The University of Oklahoma

Marsha Gayle McGee, Professor of Sociology and Gerontology
Ph.D., University of Kentucky

***Jerry McNeil**, Assistant Professor of Radiologic Technology
M.A., Louisiana Tech University

Harihara M. Mehendale, Kitty DeGree Endowed Chair and Professor of Toxicology
Ph.D., North Carolina State University

Melissa V. Melancon, Assistant Professor of Finance

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***Margaret Meredith**, Assistant Professor of Occupational Therapy
M.A., Texas Woman's University

Sharon A. Meyer, Associate Professor Toxicology
B.S., M.S., Iowa State University, Ph.D., Cornell University

***Chris Michaelides**, Associate Professor of French
Ph.D., Duke University

Robert L. Mikeal, Associate Professor of Pharmacy Administration
Ph.D., Purdue University

Ruth Miller, Assistant Professor of Computer Information Systems and Interim Head,
Department of Computer Information Systems
D.B.A., Louisiana Tech University

Russell L. Minton, Assistant Professor of Biology
Ph.D., University of Alabama

Stacy C. Moak, Associate Professor of Criminal Justice
Ph.D., University of New Orleans

***Louis A. Nabors**, Associate Professor of Music and Chair, Voice Division
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 of Economics
Ph.D., Texas A&M University

Pamela P. Newman, Professor of Counselor Education
Ed.D., Mississippi State University

William R. Nichols, Professor of Music
D.M.A., University of Iowa

***Richard Novak**, Assistant Professor of Music
Ph.D., Stephen F. Austin State University

Paxton E. Oliver, CCC-SLP, Associate Dean, College of Health Sciences
Ph.D., University of Southern Mississippi

Charlotte Owens, Assistant Professor of Computer Science
Ed.D., Northwestern State University

Ray Owens, Temporary Part-Time Instructor of Psychology
S.S.P., Northeast Louisiana University

Shirlee Ann Owens, Associate Professor of Sociology and Criminal Justice
Ph.D., The University of Georgia

***Lesli Pace**, Assistant Professor of Speech Communication
M.A. Texas State University

Jack A. Palmer, Professor of Psychology
Ph.D., The University of Georgia

Eric A. Pani, Professor of Atmospheric Sciences and Associate Provost
Ph.D., Texas Tech University

Michael E. Parker, Associate Professor of Finance
D.B.A., Mississippi State University

Tammy A. Rapp Parker, Associate Professor of Economics
Ph.D., Southern Illinois University at Carbondale

Lorra Pettit, CCC-A, Assistant Professor of Communicative Disorders
Au.D., Central Michigan University

Frank Pezold, Professor of Biology, Curator, Museum-Zoology Division
Ph.D., University of Texas

Davis W. Pritchett, Jr., Professor, Department of Biology
Ph.D., University of Arkansas, Fayetteville

Charles V. Pryor, Associate Professor of Counseling and Head, Department of
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Ed.D., Northern Illinois University

Ava F. Pugh, Professor of Curriculum and Instruction
Ed.D., Mississippi State University

Clifford E. Pugh, Assistant Professor of Chemistry
Ph.D., Texas A&M University

***Michael K. Ramsey**, Professor of Clinical Laboratory Science
Ph.D., North Texas State University; M.T. (ASCP), American Society of Clinical
Pathologists; C.L.S. (NCA), National Certification Agency for Clinical Laboratory Personnel

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

David S. Roane, Professor and Head, Department of Biology
Ph.D., Louisiana State University Medical Center

***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
Ph.D., Columbia University

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***Jeffrey Rush**, Assistant Professor of Criminal Justice
D.P.A., University of Alabama at Birmingham

William M. Ryan, Professor of English
M.F.A., University of Massachusetts

Phyllis Sanders, Assistant Professor of Curriculum and Instruction
Ed.D., University of Louisiana at Monroe

Thomas W. Sasek, Associate Professor of Biology
Ph.D., Duke University

Jennifer J. Savage, Associate Professor of Social Work
Ph.D., Jackson State University, L.C.S.W., Louisiana

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, Assistant Professor of Curriculum and Instruction
Ed.D., University of Louisiana at Monroe

***Richard D. Seiler, Jr.**, Associate Professor of Music and Chair, Keyboard Division
D.M.A., Louisiana State University

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

Larry E. Short, Professor of Management
Ph.D., University of Colorado

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G. Dale Welch, Professor and Head, Department of Gerontology and Sociology
Ph.D., Louisiana State University

Keith White, Professor of Music
Ph.D., Texas Tech University

***Joel R. Willer**, Assistant Professor of Mass Communications
M.Ed., Kent State University

David Williamson, Associate Professor and Head, Department of Psychology
Ph.D., East Texas State University

Harold E. Williamson, Professor and Head, Department of Criminal Justice
Ph.D., Sam Houston State University

Stanley G. Williamson, Professor of Management
Ph.D., University of North Texas

Holly L. Wilson, Associate Professor of Philosophy
Ph.D., The Pennsylvania State University

***James T. Wood**, Associate Professor of Computer Information Systems
Ph.D., University of Texas at Arlington

R. Lamar Woodham, Associate Professor of Marriage and Family Therapy and Director
of Programs and Clinic
Ed.D., East Texas State University

Leonard Don Yielding, Associate Professor of Criminal Justice
M.A., Sam Houston State University

Mitchell B. Young, Associate Professor of Counseling
Ph.D., Purdue University

ADJUNCT GRADUATE FACULTY MEMBERS

David M. Anderson, Adjunct Assistant Professor
Ph.D., University of North Carolina

Abraham M. Attrep, Adjunct Professor
Ph.D., University of Georgia

***Kenneth M. Brown**, Adjunct Professor of Biology
Ph.D., University of Iowa

***Thomas J. Bucci**, Adjunct Professor of Toxicology
Ph.D., University of Colorado Medical Center

***Jim Catallo**, 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

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***Keith Ouchley**, Adjunct Assistant Professor of Biology
Ph.D., Louisiana State University

***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

Dean B. Reardon, Adjunct Assistant Professor of Pharmacology
Ph.D., University of Texas

***Louise Rollins-Smith**, Adjunct Assistant Professor of Toxicology
Ph.D., University of Minnesota

Joe Saunders, Adjunct Associate Professor of Archeology
Ph.D., Southern Methodist University

***Vijay K. Tammara**, Adjunct Associate Professor of Pharmaceutics
Ph.D., Northeast Louisiana University

Stephen Webre, Adjunct Professor
Ph.D., Tulane 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.

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DOCTOR OF PHARMACY

School of Pharmacy

Sugar Hall 151

(318) 342-1600

FACULTY

F. Lamar Pritchard, Professor and Dean of the College of Health Sciences, Dean of the School of Pharmacy
Ph.D., University of Georgia

Sharon A. Meyer, Associate Professor Toxicology
B.S., M.S., Iowa State University; Ph.D., Cornell University

Robert J. Mikeal, Associate Professor of Pharmacy Administration
B.S., University of West Virginia; Ph.D., Purdue University

Harvey Rappaport, Associate Professor of Pharmacy Administration
B.S., Rutgers University; M.S., Medical College of Virginia; Ph.D., University of Mississippi

Susan Sirmans, Associate Professor of Clinical Pharmacy Practice, Clinical Coordinator North Louisiana
B.S., Auburn University; Pharm.D., Medical University of South Carolina

Gina C. Biglane, Assistant Professor of Clinical Pharmacy Practice
B.S., The University of Louisiana at Monroe; Pharm.D., University of Florida

Sandra G. Blake, Assistant Professor of Pharmacy Administration
B.S., Louisiana Tech University; M.B.A., University of Arkansas; Ph.D., The University of Louisiana at Monroe

Lisa M. Digioia-Ross, Assistant Professor of Clinical Pharmacy Practice
B.S., St. John's University; Pharm.D., Xavier University of Louisiana

Khalid El Sayed, Assistant Professor of Medicinal Chemistry
B.S., M.S., Ph.D., Mansoura University

April M. Holley, Assistant Professor of Clinical Pharmacy Practice
Pharm.D., The University of Louisiana at Monroe

Saho-Chung Hsia, Assistant Professor of Pharmacology
Ph.D., Wayne State University

Marsha L. Fannin, Assistant Professor of Clinical Pharmacy Practice
Pharm.D., The University of Louisiana at Monroe

Joseph B. Feldhaus, Assistant Professor of Pharmacy Administration
B.S., University of Louisville; M.S., Southern Illinois University; Ph.D., University of Mississippi

Mary L. Gauthier-Lewis, Assistant Professor of Clinical Pharmacy Practice
B.S., Pharm.D., Xavier University of Louisiana

Yasir Ibrahim, Assistant Professor of Clinical Pharmacy Practice
B.S., University of Baghdad; M.S., University of Iowa; Pharm.D., University of Iowa

Tibb F. Jacobs, Assistant Professor of Clinical Pharmacy Practice
Pharm.D., The University of Louisiana at Monroe

William H. Kolling, Assistant Professor of Pharmaceutics
B.S., M.S., University of Illinois; Ph.D., University of Iowa

Lesla Lawrence, Assistant Professor of Pharmacy Administration and Interim Director,

178 THE UNIVERSITY OF LOUISIANA AT MONROE

Lance Nickelson, Assistant Professor of Clinical Pharmacy Practice
B.S., The University of Louisiana at Monroe; Pharm.D., University of Arkansas

Mallika K. Patel, Assistant Professor of Clinical Pharmacy Practice
Pharm.D., The University of Louisiana at Monroe

Rebecca R. Reed, Assistant Professor of Clinical Pharmacy Practice
Pharm.D., The University of Louisiana at Monroe

Summer K. Schilling, Assistant Professor of Clinical Pharmacy Practice
Pharm.D., The University of Louisiana at Monroe

Justin J. Sherman, Assistant Professor of Clinical Pharmacy Practice
B.S., M.C.S., Pharm.D., University of Mississippi

Martin B. Steffenson, Associate Professor of Clinical Pharmacy Practice
B.A., M.L.S., Florida State University; B.S., The University of Louisiana at Monroe; M.S.,
South Dakota State University; Pharm.D., University of Arkansas

Shana M. Thibodeaux, Assistant Professor of Clinical Pharmacy Practice
B.S., The University of Louisiana at Monroe; Pharm.D., Xavier University of Louisiana

William H. Ross, Instructor in Pharmacy
B.S., The University of Louisiana at Monroe

Connie Smith, Instructor of Clinical Pharmacy Practice
B.S., The University of Louisiana at Monroe

Blair P. Wilbert, Assistant Professor of Clinical Pharmacy Practice
Pharm.D., The University of Louisiana at Monroe

Sheri L. Wright, Assistant Professor of Clinical Pharmacy Practice
Pharm.D., The University of Louisiana at Monroe

Michelle Zagar, Assistant Professor of Clinical Pharmacy Practice
Pharm.D., The University of Louisiana at Monroe

ADJUNCT FACULTY

A. Michael Crider, Adjunct Professor of Medicinal Chemistry
B.S., Murray State University; Ph.D., University of Kentucky

Salvatore J. D'Angelo, Adjunct Clinical Professor of Pharmacy
B.S., University of Houston

Robert Ewing, Adjunct Associate Professor of Clinical Pharmacy
M.D., Medical College of Georgia

Yuri M. Lvov, Adjunct Associate Professor of Pharmaceutics
Ph.D., Moscow State University (Russia)

Vijay K. Tammara, Adjunct Associate Professor of Pharmaceutics
B.S. Kakatiya University, M.S. Nagpur University, Ph.D., The University of Louisiana at Monroe

Lois R. Anderson, Adjunct Assistant Professor of Clinical Pharmacy Practice
Pharm.D., University of Wisconsin-Madison

Kenneth Boudreaux, Adjunct Assistant Professor of Clinical Pharmacy Practice
B.S., M.S., The University of Louisiana at Monroe

Jason Hall, Adjunct Assistant Professor of Clinical Pharmacy Practice
Pharm.D., The University of Louisiana at Monroe

Ahmad K. Hamide, Adjunct Assistant Professor of Clinical Pharmacy Practice
B.S., Pharm.D., Xavier University of Louisiana

Mark Middlebrooks, Adjunct Assistant Professor of Pharmacy Practice
B.S., M.S., The University of Louisiana at Monroe; Pharm.D., Idaho State University

Bhash M. Parasuraman,

180 THE UNIVERSITY OF LOUISIANA AT MONROE

The Doctor of Pharmacy or Pharm.D. degree is the highest level of applied professional education offered in pharmacy. It is designed to assure development of clinical skills and judgement with the acquisition of the confidence necessary to assess therapeutic problems and to be an active participant in those decision-making processes relating to pharmaceutical care. As such, it provides the necessary broadened biomedical/pharmaceutical didactic and experiential training to enable the practitioner of pharmacy to deliver optimal outcomes-oriented pharmacy care to the patient.

GENERAL INFORMATION

The establishment of The University of Louisiana at Monroe School of Pharmacy as Louisiana's only state-supported center for pharmaceutical education was authorized by the State Board of Education on August 11, 1956. The School was organized and the curriculum offered for the first time in September 1956. In July 1959, the American Council on Pharmaceutical Education granted the College's B.S. in pharmacy program full accreditation. This accreditation has been continued by subsequent evaluations.

The Master of Science (M.S.) degree was initiated in the Fall of 1966 and the Doctor of Philosophy (Ph.D.) degree was added in the Fall of 1969. The Doctor of Pharmacy (Pharm.D.) degree was approved by the Louisiana Board of Regents in March 1998 and initiated in the Fall of that same year.

The primary administrative and instructional facilities of the School of Pharmacy are housed on the main campus of The University of Louisiana at Monroe with numerous off-campus clinical affiliates located throughout Louisiana. In addition to Monroe, clinical instructional sites and faculty are maintained at major Medical Centers in Baton Rouge, Lafayette, New Orleans and Shreveport.

The Doctor of Pharmacy program consists of two segments, pre-pharmacy and professional pharmacy. Pre-pharmacy consists of four academic semesters, or the equivalent, and includes instruction in general education and the requisite basic science courses necessary to prepare the student for professional pharmacy. The professional program in pharmacy consists of four years of academic study, or the equivalent, after admission to the Doctor of Pharmacy program and features a broadly based professional didactic and experiential curriculum designed to prepare the student for professional pharmacy practice.

ADMISSION TO PRE-PHARMACY

Applicants for admission to the pre-pharmacy curriculum must meet the general admission requirements for admission to the University. Applications are to be submitted to the University Admissions Office. For complete programmatic information pertaining to the pre-pharmacy curriculum and academic policies applicable to pre-pharmacy majors, please consult *the University of Louisiana at Monroe Undergraduate Catalog*.

PRE-PHARMACY CURRICULUM

(Required for admission to the professional program Fall 2006 and thereafter.)

First Year	Hrs.
Core English Composition	6
Core Fine Arts Elective	3
Core Humanities Elective	3
Core Social Science elective	3
Biology 120, 121	4
Chemistry 107, 108, 109, 110	8

Mathematics 113, 1146
Pharmacy 3011
FRYS 101 Seminar	(1)
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Second Year

Core Humanities Electives6
Accounting 1103
Biology 214, 2154
Chemistry 303, 305, 304, 3068
Economics 2013
Kinesiology 2011
Physics 203, 2046
Psychology 4393
Social Work 4062
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ADMISSION TO THE SCHOOL OF PHARMACY

As required by the American Council on Pharmaceutical Education, the School of Pharmacy offers extensive experiential clerkship instruction in its educational program. For this reason, admissions are determined annually based upon the availability of 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.

Applicants for admission to the Professional Program in the School of Pharmacy, in addition to meeting the requirements for admission to the University, must have

RETENTION

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310. HISTORY OF PHARMACY. 2 cr.

- 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.

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- 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.
- 471. DRUG INFORMATION AND BIostatISTICS. 2 cr.** Principles and techniques employed in the evaluation of clinical literature with emphasis on the effective use of pharmaceutical and medical literature. Prerequisites: Second Year Pharmacy Standing.
- 472. PROFESSIONAL SERVICE ACCESSORIES. 3 cr.** Selection, indications, uses, warnings, maintenance and storage of prescription accessories and related items. Prerequisite: Second Year Pharmacy Standing.
- 473. NONPRESCRIPTION MEDICATION. 2 cr.** The positive and negative aspects of self-medication and the pharmacist's role in evaluating, selecting, and recommending nonprescription medicine. Prerequisite: Credit or registration in 414.
- 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

588. DISEASE PATHOGENESIS AND PHARMACOTHERAPY IV. 4 cr. Pathogenesis, diagnosis

**UNIVERSITY OF LOUISIANA SYSTEM BOARD OF SUPERVISORS
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