

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

**Catalog of Graduate and
Professional Programs
2004-2005**

EFFECTIVE WITH THE 2004 FIRST SUMMER SESSION THROUGH THE 2005 SPRING SEMESTER

**The University of Louisiana at Monroe Bulletin
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Failure to read this catalog does not excuse students from the requirements and regulations described herein.

The University of Louisiana at Monroe adheres to the principle of equal educational and employment opportunity without regard to race, color, creed or religion, national origin, sex,

Message from the President

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

ULM's graduate programs are designed so that our students will get the most out of their education. Our graduate students will interact with and study under scholars of national and international distinction in their respective fields. Faith and dedication to higher order understanding and skills are at the core of ULM's graduate mission. When you master the course set within one of the 30 disciplines offered at ULM, you join the ranks of others in one of life's greatest journeys: to better understand one's self and one's environment and to contribute to a better life for everyone.

I look forward to serving ULM during the coming years and to

TABLE OF CONTENTS

| | |
|--|----|
| University Calendar | 5 |
| General Information | 10 |
| Historical Sketch of the University..... | 10 |
| Location | 11 |
| Accreditation and Professional Affiliation | 12 |
| Tuition and Required Fees | 12 |
| Other Registration Fees | 14 |
| Other Expenses..... | 15 |
| Refund Policy | 16 |
| Phys | |

| | |
|--|-----|
| Fields of Study..... | 47 |
| Agriculture | 50 |
| Aviation | 51 |
| Biology | 52 |
| Chemistry | 57 |
| Communication..... | 60 |
| Computer Science, Mathematics and Physics..... | 65 |
| Criminal Justice, Gerontology, Social Work, and Sociology..... | 71 |
| English..... | 80 |
| Family and Consumer Sciences..... | 83 |
| Foreign Languages..... | 85 |
| Geosciences..... | 87 |
| History and Government | 93 |
| Visual and Performing Arts..... | 100 |
| Music | 102 |
| Business Administration..... | 112 |
| Curriculum and Instruction | 122 |
| Doctor of Education..... | 134 |
| Educational Leadership and Counseling (Counseling Programs)..... | 139 |
| Educational Leadership and Counseling (Educational Leadership Programs)..... | 148 |
| Kinesiology | 153 |
| Psychology | 156 |
| Allied Health Sciences..... | 164 |
| Communicative Disorders | 164 |
| Nursing | 167 |
| Pharmacy | 168 |
| Professional Degree Programs | 177 |
| Doctor of Pharmacy | 178 |
| Faculty | 178 |
| General Information..... | 181 |
| Admission to Pre-Pharmacy..... | 182 |
| Admission to the School of Pharmacy | 183 |
| Immunization Policy..... | 184 |
| Insurance Requirements | 184 |
| Random Drug Screening Requirements | 184 |
| Retention | 184 |
| Degree Requirements | 185 |
| Computer Literacy | 186 |
| Doctor of Pharmacy Curriculum | 186 |
| Courses | 187 |
| University of Louisiana System Board of Supervisors | 191 |
| Louisiana Board of Regents..... | 191 |
| Administrative Officers..... | 192 |
| Endowed Chairs and Professorships | 193 |
| Faculty and Administrative Emeriti | 194 |
| Index..... | 195 |
| Phone Numbers | 203 |
| Campus Map | 204 |

UNIVERSITY CALENDAR

2004

| | | |
|---|---|---|
| January S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | February S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 | March S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 |
| April S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 | May S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | June S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 |
| July S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | August S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | September S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 |
| October S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | November S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 | December S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 |

2005

| | | |
|---|---|---|
| January S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | February S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 | March S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 |
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THE ACADEMIC YEAR, 2004-2005

SUMMER TERM, 2004

FIRST SUMMER SESSION, 2004

MAY

31 Mon Memorial Day Holiday

JUNE

1 Tue Residence halls open for students

FALL SEMESTER, 2004

AUGUST

| | | |
|----|-----|-----------------------------------|
| 19 | Thu | Residence halls open for students |
| 23 | Mon | Classes begin |

8 THE UNIVERSITY OF LOUISIANA AT MONROE

SPRING SEMESTER, 2005

JANUARY

| | | |
|----|-----|---|
| 3 | Mon | University Offices Open |
| 14 | Fri | Residence halls open for students |
| 17 | Mon | Martin Luther King Day holiday |
| 18 | Tue | Classes begin |
| 20 | Thu | Final date for adding courses for credit or making course changes |

FEBRUARY

| | | |
|----------|-----|---|
| 1 | Tue | Final date for making application for comprehensive examination and application for degree for May commencement |
| 7-9 | M-W | Mardi Gras holidays |
| 10 | Thu | Classes resume, 8:00 A.M. |
| 17 | Thu | Final date for removing "I" grades |
| 28-Mar 4 | M-F | Preliminary examinations for doctoral students |

MARCH

| | | |
|----------|-----|---|
| 4 | Fri | Final date for filing field study, thesis or dissertation with Graduate Advisory Committee |
| 18 | Fri | Final date for filing field study, thesis, or dissertation with Graduate Studies and Research |
| 25-Apr 1 | F-F | Spring holidays |

APRIL

| | | |
|-----|------|---|
| 1 | Fri | Spring holiday |
| 4 | Mon | Classes resume, 8:00 A.M. |
| 5-8 | Tu-F | Comprehensive examinations for graduate students |
| 7 | Thu | Final date for dropping courses or resigning from the University; a "W" grade is issued |

MAY

| | | |
|-------|------|--|
| 9-10 | M-Tu | Final Examinations |
| 11 | Wed | Student Study Day |
| 12,13 | Th-F | Final Examinations |
| 17 | Tue | Grades due in Office of the Registrar before 10:00 A.M. |
| 21 | Sat | Commencement, 2:00 P.M. Semester 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.

SUMMER TERM, 2005

FIRST SUMMER SESSION, 2005

MAY

| | | |
|----|-----|-----------------------------------|
| 31 | Tue | Residence Halls open for students |
|----|-----|-----------------------------------|

JUNE

| | | |
|-------|-----|--|
| 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 |

GENERAL INFORMATION

PURPOSE/MISSION OF THE UNIVERSITY

The University of Louisiana at Monroe is a state-assisted, multipurpose, senior institution of higher education which offers high quality academic and experiential opportunities to meet the academic, cultural, vocational, social, and personal needs of undergraduate, graduate and continuing education students. Degree programs are offered in business administration, education and human development, arts and sciences, and health sciences.

The primary purposes of The University of Louisiana at Monroe are Instruction, Research, and Service.

The most compelling purpose of the University is instruction, which is accomplished through the pursuit, assimilation, and dissemination of knowledge in academic programs. These programs endeavor to develop independent thought and study, critical examination of information, and deliberate decision making. They seek to prepare students to function effectively in a competitive society and to create within them an awareness of professional and social responsibilities along with an appreciation of principles of ethical conduct. A broad range of learning experiences in the humanities, arts, sciences, and professional areas provides the vehicle for meeting academic objectives.

Since research enhances both effective instruction and professional service, The University of Louisiana at Monroe accepts the responsibility to encourage and support faculty and students in basic and applied research and in creative endeavors, by providing funding, facilities, and professional advancement opportunities.

The University is committed to using its human and physical resources to provide services and to offer opportunities for personal and professional growth, especially to its northeast Louisiana constituency. The University strives to improve the quality of life in the community and to suggest solutions to local, state, and national problems by sharing research skills, consulting services, and cultural opportunities.

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

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 8,580 students for the Fall Semester of 2003. Enrolled are students from every parish in Louisiana, along with many other states and foreign countries.

LOCATION

ACCREDITATION AND PROFESSIONAL AFFILIATION

COSTS

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

2004 FALL AND SPRING SEMESTERS – GRADUATE STUDENTS

| | Residents | Nonresidents | | |
|---------|-------------------------|-------------------------|-----------------|------------|
| | Tuition & Required Fees | Tuition & Required Fees | Nonresident Fee | Total |
| 9 hours | \$1,445.20* | \$1,445.20 | \$2,979.00 | \$4,424.20 |
| 8 hours | \$1,303.95 | \$1,303.95 | \$2,648.00 | \$3,951.95 |
| 7 hours | \$1,171.70 | \$1,171.70 | \$2,317.00 | \$3,788.70 |
| 6 hours | \$1,039.45 | \$1,039.45 | \$1,986.00 | \$3,025.45 |
| 5 hours | \$ 907.20 | \$ 907.20 | \$1,655.00 | \$2,562.20 |
| 4 hours | \$ 774.95 | \$ 774.95 | \$1,324.00 | \$2,098.95 |
| 3 hours | \$ 511.25 | \$ 511.25 | \$ 0.00 | \$ 511.25 |
| 2 hours | \$ 344.00 | \$ 344.00 | \$ 0.00 | \$ 344.00 |
| 1 hour | \$ 211.75 | \$ 211.75 | \$ 0.00 | \$ 211.75 |

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

*Full time graduate assistants will be granted a tuition waiver in the amount of \$1,070.00.

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

2004 SUMMER I AND II SESSIONS FEES – GRADUATE STUDENTS

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

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

| | Residents | Nonresidents | | |
|---------|-------------------------|-------------------------|-----------------|------------|
| | Tuition & Required Fees | Tuition & Required Fees | Nonresident Fee | Total |
| 9 hours | \$1,247.32 | \$1,247.32 | \$2,979.00 | \$4,226.32 |
| 8 hours | \$1,156.07 | \$1,156.07 | \$2,648.00 | \$3,804.07 |
| 7 hours | \$1,023.82 | \$1,023.82 | \$2,317.00 | \$3,340.82 |
| 6 hours | \$ 891.57 | \$ 891.57 | \$1,986.00 | \$2,877.57 |
| 5 hours | \$ 759.32 | \$ 759.32 | \$1,655.00 | \$2,414.32 |
| 4 hours | \$ 627.07 | \$ 627.07 | \$1,324.00 | \$1,951.07 |
| 3 hours | \$ 446.75* | \$ 446.75 | \$ 0.00 | \$ 446.75 |
| 2 hours | \$ 314.50 | \$ 314.50 | \$ 0.00 | \$ 314.50 |
| 1 hour | \$ 182.25 | \$ 182.25 | \$ 0.00 | \$ 182.25 |

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

*Full time graduate assistants will be granted a tuition waiver in the amount of \$357.00.

NOTE: The fees above do not include the parking decal fee of \$5

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,

OTHER EXPENSES

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

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

PHYSICAL FACILITIES

THE UNIVERSITY LIBRARY AND CONFERENCE CENTER

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

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

The resources of the library include 637,640 print volumes, including 195,605 state and federal documents, 2,600 journal and newspaper subscriptions, and 601,000 volumes in microformat. The Library is a member of AMIGOS, which enables cataloging and bibliographic verification and interlibrary loan via computer terminals connected on-line to the system headquarters. NEON, the Library's electronic catalog, is part of LOUIS, the Louisiana Library network. Being part of LOUIS, the library has access to EBSCOhost which provides access to over 9,000 full-text electronic journals. In addition, LOUIS provides access to other bibliographic and abstracting sources via the Web.

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

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

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

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

On the second floor are the uncataloged federal and state government publications and the Government Publications service counter. Media Services- including microforms, language stations, and music/video listening- is also on this floor.

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

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

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

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

During the academic year, the Library is open from 7:30 a.m. until 12:00 midnight, Monday through Thursday; from 7:30 a.m. to 4:30 p.m. Friday; from 9:00 a.m. to 3:00 p.m. on Saturday and from 2:00 p.m. to 12:00 Midnight on Sunday. Holiday schedules are announced.

The Library staff includes 13 professionals and 14 paraprofessionals.

Housed on the seventh floor of the University Library is the University Conference Center which is used by the faculty, staff, students, and community

18 THE UNIVERSITY OF LOUISIANA AT MONROE

Conference Center hosts important academic gatherings for the University 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

20 THE UNIVERSITY OF LOUISIANA AT MONROE

Institute of Corrections and Juvenile Justice

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

Dr. Stacy Moak, (318) 342-1404
Stubbs 207

Institute of Gerontology

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

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

Dr. G. Dale Welch, Head, Gerontology Program, (318) 342-1430
Stubbs Hall 104

Institute of Law Enforcement

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

Mr. Leonard D. Yielding, Director, (318) 342-1440
Stubbs 210

Louisiana Drug and Poison Information Center

The Poison Information Center provides 24-hour information about poisons in the home and workplace. The Center is staffed by trained specialists in poison information, providing prompt assistance, especially in emergencies. The staff also has a list of referral telephone numbers to call for drug-related suicide attempts or other calls for help.

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

The Drug Information Service provides professional consultation to pharmacists, physicians, consumers, and others throughout the state. Answers are provided for a variety of questions including those related to drug therapy, disease and general health information, and drug policy management. The Drug Information Service coordinator participates in several classes in the College of

Pharmacy and provides a Drug Information Rotation for senior pharmacy students. The Drug Information Service is open Monday through Friday from 8 AM to 4:30 PM, and the Coordinator is on-call at other times.

22 THE UNIVERSITY OF LOUISIANA AT MONROE

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. William M. Bourn, Dean, College of Health Sciences, (318) 342-1600
Sugar Hall 151

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

MUSEUMS AND GALLERIES

Bry Art Gallery

Art exhibits change monthly and feature all types of studio media including paints, drawings, prints, sculpture, photography, and ceramics. E

CAMPUS HOUSING

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

Sherrouse Hall is designated for males and is located on the east side of Bayou DeSiard.

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

GRADUATE DEGREE PROGRAMS

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. Peter Aku

Dr. John Carr

Dr. Jay Bulot

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

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

DEGREES

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

Administration and Supervision (M.Ed.)
Biology (M.S.)
Business Administration (M.B.A.)
Chemistry (M.S.)
Communication (M.A.)
Communicative Disorders (M.S.)
Counseling (M.Ed.)
Criminal Justice (M.A.)
Curriculum and Instruction (Ed.S., Ed.D.)
Early Childhood Education Alternative Certification (M.A.T.)
Educational Leadership (Ed.D.)
Elementary Education (M.Ed.)
Elementary Education Alternative Certification (M.A.T.)
English (M.A.)
Exercise Science (M.S.)
Geosciences (M.S.)
Gerontology (M.A.)
History (M.A.)
Marriage and Family Therapy (M.A., Ph.D.)
Music (M.M.)
Pharmaceutical Sciences (M.S.)
Pharmacy (Ph.D.)
Psychology (M.S.)
Reading (M.Ed.)
School Psychology (S.S.P.)
Secondary Education (M.Ed.)
Secondary Education Alternative Certification (M.A.T.)
Special Education (M.Ed.)
Special Education Mild/Moderate Alternative Certification (M.A.T.)
Substance Abuse Counseling (M.A.)

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

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 classes begin. An international student may apply for exemption from the ULM

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.

34 THE UNIVERSITY OF LOUISIANA AT MONROE

4. Official TOEFL score of no less than 480 (paper-based test) or 157 (computer-based test)
5. Complete and official transcripts (native language and English translation) of all university work (Certificate or degree earned must be equivalent to a U.S. bachelors - to be determined by the Office of Graduate Studies and Research)
6. Official GRE or GMAT scores.

All above materials must be submitted before the following deadlines: When applying for Fall Semester, July 1; for Spring Semester, November 1; for Summer Term, April 1. Eligibility is determined by the Director of Graduate Studies and Research.

SECOND MASTER'S DEGREE

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

GRADUATE CREDIT FOR COURSES DESIGNATED: FOR UNDERGRADUATES AND GRADUATES

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

GRADUATE CREDIT FOR OUTSTANDING ULM SENIORS

Upon written recommendation of the academic department head/director and dean and with the approval of the Director, a senior at the undergraduate level who has a minimum average of "B" on all work pursued and who lacks not more than nine hours (six for summer graduation) for the completion of a baccalaureate degree may register for a maximum of six semester hours (four in summer term) of graduate credit in courses numbered below 500, provided that (1) the total scheduled hours shall not exceed fifteen (ten in summer term), (2) prior approval has been given by the student's academic dean, and (3) failure to receive a bachelor's degree at the close of the semester (or summer term) shall cause forfeiture of graduate credit for any of the courses taken.

ELIGIBILITY TO REMAIN IN THE GRADUATE SCHOOL

The Director of Graduate Studies and Research will deny further continuance in graduate work to any graduate student who meets one or more of the following conditions:

- Any grade lower than C
- a graduate GPA that falls below 3.0.

APPEALS FOR ADMISSION OR READMISSION

feedback for students to use in evaluating individual progress and making decisions about future behavior.

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

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

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

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

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

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

Work which is of satisfactory quality but which, because of circumstances beyond the student's control, is not complete, may be marked I (Incomplete). The deficiency must be met within the first month of the next regular semester or within the first two weeks of either summer term of attendance (whichever comes first). I grades are removed only by completion of the course work, not by repeating the course. I grades are computed as F grades, unless changed to a final passing grade. If the student does not resume studies either at the University or elsewhere within a calendar year following the semester or summer session for

IP grades. Instructors must discuss in advance with the Registrar the reasons for

38 THE UNIVERSITY OF LOUISIANA AT MONROE

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.

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

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

defense, this reporting requirement will be satisfied by the graduate advisory committee's approval of the field study, thesis, or dissertation.

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

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

THE FIELD STUDY, THESIS, OR DISSERTATION

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

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

One pre-approval copy of the field study, thesis, or dissertation must be submitted to the Office of Graduate Studies and Research no later than the deadline stated in the University Calendar. At least two weeks prior to that deadline, students in the College of Education and Human Development must submit the pre-approval copy to the Dean of the College for review and permission to submit to the Office of Graduate Studies and Research. A pre-approval copy is the completed work of the student, which has been formally reviewed and approved by the student's graduate advisory committee. The pre-approval copy must include signatures of the graduate advisory committee. The pre-approval copy must be on 8½" x 11" photocopy paper and of appropriate print quality (e.g., not dot matrix).

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

The Guidelines, issued by the Office of Graduate Studies and Research, must be followed in writing a field study, thesis, or dissertation.

A minimum of four copies of the field study or thesis and five copies of the dissertation in final form, approved and signed by members of the graduate advisory committee, and one additional copy of the abstract must be submitted to the 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.

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
College of Arts and Sciences

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.

HORTICULTURE (HORT)

For Undergraduates and Graduates

- 401. PLANTS AS TEACHING TOOLS. 3 cr.** The basic concepts concerned in handling plants for the preschool and elementary school child. Selection and development of materials to enhance learning situations and develop an appreciation of the role of plants in life. Not to be taken for major credit or used to satisfy science requirements.

AVIATION

College of Arts and Sciences

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

(318) 342-1780

FACULTY

***Paul M. Karlowitz**, Interim Department Head
M.S., Central Missouri State University

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

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

*Associate Member of the Graduate Faculty

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.

COURSES

AVIATION (AVIA)

For Undergraduates and Graduates

- 403. AEROSPACE EDUCATION. 3 cr.** A course designed to provide teachers, counselors, and administrators with a basic understanding of the scientific and technological fundamentals involved in flight. Utilizing the airplane as the tool of classroom instruction, the earth, physical and biological sciences are taught as they relate to the aerospace age. The material covered will encompass the equivalence of a Federal Aviation Administration private pilot written examination.
- 404. ADVANCED AEROSPACE EDUCATION. 3 cr.** A course designed to provide teachers, counselors, and administrators with an advanced technological orientation, as well as a solid foundation in the aerospace career fields. This course includes an advanced academic program in the classroom and an optional flight training program through solo flight.

451. ADVANCED AEROSPACE SEMINAR. 1-3 cr. Individual and limited group problems in aerospace development, history, organizational relationships and management. Designed primarily for individual and small group studies, and for extended field trips to significant aerospace centers of research, development, and operations. Prerequisite: Approval of Department Head.

BIOLOGY

*David S. Moreland, Adjunct Assistant Professor of Biology
M.S., Northeast Louisiana University

*Associate Member of the Graduate Faculty

DEGREES: M.S. in Biology

Areas of concentration available include Botany, Microbiology, Physiology, Wildlife Conservation and Management, and Zoology.

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

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

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

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

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

PROGRAM REQUIREMENTS: Undergraduate requirements: 33 semester hours of courses in biology, including Biology 204, 205, 208, 209, 214, 215, 303, 304, 305; 4 semester hours of physiology (animal, plant, human, or cell); or equivalents.

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

COURSES

BIOLOGY (BIOL)

For Undergraduates and Graduates

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

introduction to biotechnology. Two hours lecture and two hours laboratory. Prerequisites: 214, 215 and 8 semester hours of chemistry. (Formerly Micro 415, 416)

- 468. GENERAL VIROLOGY. 3 cr.** A study of representative bacterial, animal and plant viruses. Prerequisites: 214; credit or registration in 469. (Formerly Micro 425)
- 469. GENERAL VIROLOGY LABORATORY. 1 cr.** A laboratory to accompany 468. Three hours laboratory. Prerequisite: Credit or registration in 468. (Formerly Micro 426)
- 470. IMMUNOLOGY - CONCEPTS AND PRINCIPLES. 3 cr.** Detailed discussion of the cellular and humoral components of the immune system and their interrelationships in the production and control, at both the genetic and cellular levels, of immune responses. Prerequisites: 214; 115 or 312 or consent of instructor. (Formerly Micro 430)
- 472. INTRODUCTORY PARASITOLOGY. 3 cr.** The taxonomy, life history, and economic importance of protozoa, helminths, and arthropods which are parasites of man. Prerequisites: 208; credit or registration in 473. (Formerly Zoology 401)
- 473. INTRODUCTORY PARASITOLOGY LABORATORY. 1 cr.** A laboratory course to accompany 472 three hours laboratory. Prerequisite: Credit or registration in 472. (Formerly Zoology 402)
- 476. FRESHWATER ECOLOGY. 4 cr.** The biological, chemical, and physical characteristics of freshwater habitats. Three hours lecture and three hours laboratory. Field trip fee required. Prerequisites: 204; 208. (Formerly 406, 407)
- 478. ICHTHYOLOGY. 4 cr.** Evolution, systematics and ecology of fishes with an emphasis on North American freshwater fishes. Two hours lecture and six hours laboratory with field trips. Prerequisites: 122, 123. F odd. (Formerly Zoology 405,406)
- 480. HERPETOLOGY. 4 cr.** Morphology, taxonomy, and life history of amphibians and reptiles with emphasis on the taxonomy of the amphibians and reptiles of Louisiana. Three hours lecture and three hours laboratory with field trips required. Prerequisite: 208. (Formerly Zoology 427, 428)
- 482. MAMMALOLOGY. 4 cr.** The morphology, taxonomy, and life history of mammals. Three hours lecture and three hours laboratory with field trips. Prerequisite: 208. F. odd (Formerly Zoology 423, 424)
- 484. ORNITHOLOGY. 3 cr.** Morphology, taxonomy, behavior, and natural history of birds. Two hours lecture and three hours laboratory with field trips required. Prerequisite: 208. Sp. even (Formerly Zoology 431, 432)
- 486. GAME BIRDS. 4 cr.** Recognition, life histories, predators, economics and management prac-

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56 THE UNIVERSITY OF LOUISIANA AT MONROE

- 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, 4 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.
- 514. EPIDEMIOLOGY. 3 cr.** A study of human and animal disease with consideration of host resistance, parasitic adaptation and dissemination, and the problems of interference, carriers, reservoirs, and control. Prerequisite: 214 or equivalent. (Formerly Microbiology 512)
- 515. BIOLOGY FOR TEACHERS. 3 cr. Maximum, 12 cr.** Analysis and application of principles of selected biological topics. Cannot be used to satisfy degree requirements for biology majors.
- 518. POPULATION BIOLOGY OF FISHES. 4 cr.** General principles of fish population dynamics with emphasis on freshwater systems. Topics include mortality, recruitment and yield, age and growth, and population ecology. Three hours lecture and three hours laboratory. (Formerly Zoology 514, 515)
- 524. BIOGEOGRAPHY. 3 cr.** A study of the dynamics of biological patterns and processes over broad geographic and time scales. Prerequisites: 303, 304 or Approval of Instructor. F, even
- 526. ADVANCED HERPETOLOGY. 3 cr.** Detailed internal and external morphology and taxonomy of the amphibians and reptiles of North America. Field and museum techniques in collecting and preparing specimens and records. Two hours lecture and 3 hours laboratory. Prerequisite 480. (Formerly Zoology 505)
- 528. FISH DIVERSITY. 4 cr.** Evolution, systematics, and zoogeography of marine and freshwater fishes of the world. Field and museum techniques in specimen collection and preservation and an introduction to morphological, cytogenetic, and molecular analyses. Three hours seminar and three hours laboratory. Prerequisite: 478. (Formerly Zoology 503)
- 530. STREAM ECOLOGY. 4 cr.** Animal adaptations to life in rivers, bayous, and creeks. Stream community structure as understood through ecological theories. Combination lecture, laboratory, and field work. Two hours lecture and four hours laboratory. Field trip fee required. Prerequisites: 476. (Formerly 520, Lotic Ecology)
- 532. FRESHWATER INVERTEBRATES. 4 cr.** An in-depth study of the classification and ecology of invertebrate taxa found in freshwater habitats, with special emphasis on freshwater taxa of the southeastern United States. Three hours lecture and three hours laboratory. Prerequisites: 303, 304, 476. (Formerly 521, 522)
- 534. PLANT SYSTEMATICS AND PHYLOGENY. 3 cr.** Theory and practice of identifying, naming, classifying, and understanding relationships between vascular plants with emphasis on families and their phylogeny. Two hours of lecture and two hours of laboratory. Prerequisites: A 400-level plant taxonomy course. (Formerly Botany 510)
- 536. SYSTEMATIC BIOLOGY. 3 cr.** Major theses include speciation, species, concepts, character analysis, phylogeny reconstruction, and historical biogeography. Theoretical aspects of these topics and their relationship to taxon recognition, description, and classification will be emphasized. Prerequisite: 405 or approval of Department Head. (Formerly Zoology 510)
- 540. COMPARATIVE PHYSIOLOGY. 3 cr.** Physiological processes in a wide range of invertebrates as well as vertebrate animals; different adaptations by which diverse organisms perform basic life functions; comparisons designed to demonstrate physiological homologies and analogies. (Formerly Zoology 511)
- 542. ENDOCRINOLOGY. 3 cr.** The study of endocrine glands and their hormones. Consideration of the role of hormones in growth, development, metabolism, homeostasis, and reproduction. Prerequisite: One semester of physiology. (Formerly Zoology 501)
- 591. DIRECTED STUDY. 16 cr. Maximum, 6 cr.** Directed study in selected areas of Biology. Prerequisite: Approval of the Department Head
- 599. THESIS. 1-6 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.

MARINE SCIENCE (MNSC)

For Undergraduates and Graduates

- 401. MARINE BOTANY. 4 cr.** Study of marine and coastal algae and vascular plants, including classification, morphology, life cycles, and ecology; emphasis on field and laboratory studies. Prerequisites: 12 hours botany including BIOL 438; Permission of Instructor. Offered summer only. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory.
- 410. MARINE ECOLOGY. 4 cr.** Relationships of marine and estuarine organisms to environmental factors; interactions among organisms; ecological processes of energy and materials flow; field studies of communities and ecosystems of the Louisiana coastal zone. Prerequisite: 204, 205, 330, 332; CHEM 107, 109; Permission of the Instructor. Offered summer only. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory.
- 420. MARINE MICROBIOLOGY. 4 cr.** Introduction to the estuarine and marine microbes, especially bacteria and fungi; classification, methodology, role in marine ecosystems, biogeochemical cycles, and diseases of marine animals. Prerequisites: 12 hours of biology, including 214, 215; Permission of Instructor. Offered summer only. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory.
- 450. MARINE INVERTEBRATE ZOOLOGY. 4 cr.** General study of the classification, structure, function, and ecology of marine and estuarine invertebrates; emphasis on field studies of invertebrates of the Louisiana Gulf Coast. Prerequisites: 8 semester hours of zoology and Permission of Instructor. Offered summer only. Five weeks at a Louisiana Marine Consortium coastal laboratory.
- 455. MARINE VERTEBRATE ZOOLOGY. 4 cr.** Field and laboratory studies of marine vertebrates with particular emphasis on the fishes, including classification, structure, function, and ecology. Prerequisites: 16 semester hours of zoology and Permission of Instructor. Offered summer only. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory.
- 460. COASTAL MARINE GEOLOGY. 4 cr.** Louisiana Universities Marine Consortium coastal laboratory.

Fred H. Watson, Jr., Professor of Chemistry
Ph.D., Louisiana State University

Mark E. Arant, Associate Professor of Chemistry
Ph.D., University of Alabama

Frank N. Bruscato, Associate Professor of Chemistry
Ph.D., University of Louisville

Richard E. Norman, Associate Professor of Chemistry
Ph.D., University of Washington

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

Stephen Fox, Assistant Professor of Chemistry
Ph.D., State University of New York

Thomas Junk, Assistant Professor of Chemistry
Ph.D., Texas A&M University

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

Martin Jeffrey Taylor, Assistant Professor of Chemistry
Ph.D., University of Arkansas

***Jim Catallo**, Adjunct Associate Professor of Chemistry
Ph.D., College of William and Mary

***Peter Pi-Cheng Fu**, Adjunct Professor of Chemistry
Ph.D., University of Illinois at Chicago

*Associate Member of the Graduate Faculty

DEGREES: M.S. in Chemistry

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

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

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

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

60 THE UNIVERSITY OF LOUISIANA AT MONROE

- 532. ORGANIC SPECTROSCOPY. 3 cr.** Advanced presentations of identification techniques for organic compounds. Analytical procedures include infrared spectroscopy, nuclear magnetic resonance, mass spectrometry, and ultraviolet-visible spectroscopy. Prerequisites: A "C" or better in 304 or equivalent. Spring, even years
- 541-542. ANALYTICAL CHEMISTRY. 3 cr. each.** Theory and practice of analytical chemistry. Topics will vary to reflect trends in analytical chemistry and needs of the students. Recently, these courses have dealt with spectrochemical analysis and with chromatographic methods. Three hours of lecture per week. Prerequisite: 407 or equivalent. F, even years; Sp, odd years
- 551. INTERMEDIARY METABOLISM. 3 cr.** A study of metabolism of carbohydrates, proteins, nucleic acids, and lipids. Three hours of lecture per week. Prerequisite: "C" or better in 336. F, odd years
- 552. PHYSICAL BIOCHEMISTRY. 3 cr.** Advanced study of the physical techniques, structure, function, conformation and behavior of biological macromolecules. Three hours of lecture per week. Prerequisite: "C" or better in 336. (Formerly Intermediary Metabolism.) Sp, even years
- 561. SEMINAR. 1 cr.** Presentations on the latest literature topics. Grades of credit (CR) or no-credit (NC) will be awarded.
- 562. SEMINAR PRESENTATION. 1 cr.** Presentations given by graduate students on the latest literature topics.
- 599. THESIS. 1-6 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.

COMMUNICATION

College of Arts and Sciences

Stubbs Hall 120

(318) 342-1406

FACULTY

Bette J. Kauffman, Associate Professor and Head, Department of Communication
Ph.D., University of Pennsylvania

Jeffrey M. Gibson, Associate Professor of Mass Communications
M.A., Ohio State University

Patrick J. Hebert, Professor of Speech Communication
Ph.D., Southern Illinois University-Carbondale

***Robert E. Lewis**, Assistant Professor of Mass Communications
M.Ed., Ashland University

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

C. Turner Steckline, Associate Professor of Speech Communication
Ph.D., Southern Illinois University-Carbondale

Carl L. Thamelng, Assistant Professor of Speech Communication
Ph.D., Indiana University

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

***Marion S. Meriwether**, Adjunct Assistant Professor of Mass Communications
M.A., Northeast Louisiana University

*Associate Member of the Graduate Faculty

DEGREES: M.A. in Communication

Areas of concentration include Mass Communications, Speech Communication, and Theatre. Areas of emphasis within Mass Communications include Journalism, Public Relations, Media Production and Broadcast Management.

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

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

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

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

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

PROGRAM REQUIREMENTS: Undergraduate requirements: 30 semester hours in the graduate area of concentration. The area of concentration may be chosen from Mass Communications, Speech Communication, and Theatre. Within Mass Communications, emphases include Journalism, Public Relations, Media Production, Broadcast Management.

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

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

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

COURSES

COMMUNICATION (COMM)

For Graduates Only

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

490. INTERNSHIP. 2 cr. Field experience under the general supervision of a faculty member and the direct supervision of an industry professional, with academic components including a final paper and presentation. Prerequisites: Completion of 15 hours of Mass Communications coursework including MCOM 390 and approval of academic advisor, faculty internship supervisor and site supervisor.

For Graduates Only

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.

403. ADVANCED LIGHTING. 3 cr. A study of equipment, principles, and techniques of modern stage lighting and design. Prerequisite: 303 or Consent of Instructor. Practical application on University productions.

background in mathematics and no prior knowledge of statistics is assumed. Credit cannot be earned in both 437-438 and 520-521. (Same as Mathematics 520-521.)

- 522. MULTIVARIATE STATISTICAL METHODS FOR RESEARCHERS. 3 cr.** An introductory course in applied multivariate statistical methods for the researcher. Emphasis is on concepts and the application of procedure. Topics to be covered include multivariate normal distribution theory, statistical distance, hypothesis testing, multivariate structure, graphics, and exploratory techniques. Same as Mathematics 522.
- 536. MATHEMATICAL CONCEPTS OF OPERATIONS RESEARCH. 3 cr.** Game Theory, convexity, nonlinear programming, classical optimization, theory of queues, simulation techniques. Prerequisite: 435.
- 591. DIRECTED STUDY. 1-6 cr. Maximum, 6 cr.** Individual work on special problems in computer science. Subject Areas: A. Applications; B. Software; C. Mathematics of Computation; D. Hardware. Prerequisite: Approval of Department Head.

MATHEMATICS

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

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

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

COURSES

MATHEMATICS (MATH)

For Undergraduates and Graduates

- 401. DIFFERENTIAL EQUATIONS. 3 cr.** Series solutions to ordinary differential equations, Laplace transforms, systems of differential equations, numerical methods and applications which arise in geometry, chemistry, and physics. Prerequisite: 301.
- 402. LINEAR SPACES. 3 cr.** A study of abstract vector spaces including function spaces, linear transformations, operators, functionals and duality, bilinear and quadratic forms. Prerequisites: 202, 132.
- 403-404. MATHEMATICAL STATISTICS. 3 cr. each.** Probability, discrete and continuous random variables, expected values and moments, special continuous distributions, sampling, point estimation, multivariate normal, interval estimation, tests of hypothesis, regression and linear hypothesis, experimental design models, sequential tests, and nonparametric methods. Prerequisite: 303.
- 405. PARTIAL DIFFERENTIAL EQUATIONS. 3 cr.** Fourier series, boundary value problems, partial differential equations, special functions, with an emphasis on applications. Prerequisite: 301.
- 406. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE. 3 cr.** Real and complex numbers, differentiation and integration of functions of a complex variable, mapping by elementary functions, transformations, infinite series, and theory of residues and poles. Prerequisite: 232.
- 411. FUNDAMENTALS OF MIDDLE SCHOOLReal aEATICS**

436. INTRODUCTION TO MATHEMATICAL CONCEPTS IN OPERATIONS RESEARCH. 3 cr. A mathematical approach to concepts in advanced linear and nonlinear programming, dynamic programming, game theories, queueing theory and other standard topics

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

COURSES

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

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.

CRIMINAL JUSTICE, GERONTOLOGY, SOCIAL WORK AND SOCIOLOGY

**College of Arts and Sciences
Stubbs Hall 104
(318) 342-1430**

FACULTY

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

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

Harry J. Hale, Jr., Professor of Sociology
Ph.D., University of Tennessee

Christopher J. Johnson, Professor of Sociology
Ph.D., Iowa State University

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

Pamela H. Higgins-Saulsberry, Professor of Social Work

72 THE UNIVERSITY OF LOUISIANA AT MONROE

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

***Wiley Lloyd Grafton**, Assistant Professor of Criminal Justice
Ed.D., University of Southern Mississippi

***Bruce Hall**, Assistant Professor of Gerontology
Ph.D., Mississippi State University

Robert D. Hanser, Assistant Professor of Criminal Justice
Ph.D., Sam Houston State University

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

*Associate Member of the Graduate Faculty

DEGREES: M.A. in Criminal Justice
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 Criminal Justice): 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 Criminal Justice degree program must meet one of the following criteria:

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

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

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

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

PROGRAM REQUIREMENTS (M.A. in Criminal Justice): Undergraduate requirements: Applicants must complete the bachelor's degree from an accredited institution with a major

in the field of Criminal Justice. Other bachelor's degrees will be considered on an individual basis; selected undergraduate background courses may be required to remove undergraduate deficiencies.

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

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

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

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 a thesis unless an internship is approved by the student's committee and department head. Persons who are already employed full-time in an agency providing services to seniors may appeal to the department head for a waiver of the internship/thesis requirement and take six additional hours of gerontology electives.

CERTIFICATE IN GERONTOLOGICAL STUDIES

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

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

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

Applicants who fail to meet the above standards may be admitted on conditional status as recommended by the Gerontology Admission Committee and approved by the 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:

- 416. CONTEMPORARY ISSUES IN CRIMINAL JUSTICE. 3 cr.** Examination of the literature and analysis of current issues relevant to criminal justice. Prerequisite: Junior, Senior, or Graduate standing.
- 418. CONSTITUTIONAL LAW AND CRIMINAL JUSTICE. 3 cr.** Study of constitutional law and its applicability in the criminal justice system. Prerequisite: Government 201. (Same as Government 418.)
- 429. MANAGEMENT OF CRIMINAL JUSTICE AGENCIES. 3 Cr.** The application of supervisory and administrative principles to the management of correctional and police agencies in the United States. Students with prior credit for CJUS413 and/or 414 are not eligible to receive credit in

515. MINORITY AGING. 3 cr. This course will examine the current state of gerontological knowledge about each of the federally designated minority group populations: African Americans, American Indians, Asian/Pacific Islanders, and Hispanics. Each student will have the

to a program involving research activities, service provision, or administration of programs related to the aging and aged populations. Prerequisite: Consent of Instructor. (Formerly Sociology 590.)

599. THESIS. 1-6 cr. Grades of CR (Credit) or NC (No Credit) will be awarded.

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.
- 402. SOCIAL GERONTOLOGY. 3 cr.** An introduction to the physical, social, economic, and psychological dimensions of aging. Social Work majors may not receive credit for Gerontology 402. (Same as Gerontology 402.)
- 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.)
- 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.
- 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

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. SPANISH AND PRESENTATION OF CULTURE. 3 cr.** Examines the history, culture, and social structure of Spain and its influence on Latin America. Prerequisite: 307 or approval of department head. (Same as Anthropology 455.)

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. PROE25mb5iE2q-k4nly lult luYg-TARE. 3 cr.An Sndto Un delcitylop-JTJ /F1 1,lop-JTJ /F3 17.618m

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

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

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

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

For regular admission to the Master of Arts in English degree program, international students must submit a minimum score of 600 on the TOEFL or a minimum score of 85 on the Michigan Test.

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

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

Requirements for a major (Thesis): 30-36 semester hours of English including English 507 or 508, 527 or 528, and 599. Requirements for a major (Non-thesis): 36 semester hours of English including English 507 or 508, and 527 or 528.

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

With their major professor's guidance and approval, students may take up to one-half of their course work in creative writing or rhetoric and composition.

COURSES

ENGLISH (ENGL)

For Undergraduates and Graduates

405. **ENGLISH NOVEL TO 1800. 3 cr.** Critical analysis of major novels and study of origin and development.
406. **NINETEENTH CENTURY ENGLISH NOVEL. 3 cr.** Critical analysis of major novels and study of changes in aim and technique.
407. **TWENTIETH CENTURY ENGLISH NOVEL. 3 cr.** Critical analysis of major novels and study of changes in aim and technique.
409. **MODERN POETRY. 3 cr.** Analysis of structure, form, and content of significant works of selected twentieth-century British and American poets.
410. **MODERN DRAMA. 3 cr.** Selected contemporary English, continental, and American dramas.
413. **AMERICAN NOVEL. 3 cr.** Critical analysis of major novels and study of the context.
416. **MODERN EUROPEAN FICTION. 3 cr.** Selected English works, as well as continental novels that have been translated into English. (Formerly Modern European Novel.)
421. **THE LITERATURE OF THE BIBLE. 3 cr.** Selected books from the Old and New Testaments, with emphasis on their literary value and influence on English and American literature.
425. **LITERARY CRITICISM. 3 cr.** Major aesthetic theories related to exercises in practical criticism.

- 426. MULTICULTURAL LITERATURE. 3 cr.** Introduction to the multicultural literature of the world.
- 427. LITERATURE OF THE SOUTH. 3 cr.** Representative writers of the Early South, the Confederate South, and the New South, including William Faulkner, Thomas Wolfe, and Richard Wright.
- 436. CHAUCER. 3 cr.** Studies in The Canterbury Tales and other selected works of Geoffrey Chaucer.
- 437. SHAKESPEARE'S TRAGEDIES. 3 cr.** Twelve tragedies, with emphasis on principles governing the genre.
- 438. SHAKESPEARE'S COMEDIES AND HISTORIES. 3 cr.** Representative comedies and histories, with emphasis on Shakespeare's development as a dramatic artist.
- 439. MILTON. 3 cr.** The major poems and selected prose and minor poetry.
- 444. WRITING IN THE SCIENCES. 3 cr.** A composition course that focuses on writing professional documents (abstracts, proposals, research) in the various science disciplines and developing professional presentations for the scientific community. Emphasis on rhetorical strategies and the conventions of scientific discourse. Prerequisite: 220 (A), (B), (C), or (D) or consent of department head.
- 471. MEDIEVAL LITERATURE. 3 cr.** Selected English or European works before 1500, excluding Chaucer.
- 472. RENAISSANCE. 3 cr.** Non-dramatic poetry and prose of the Tudor Period.
- 473. SEVENTEENTH CENTURY. 3 cr.** Development of English prose and poetry from the beginning

527. **AMERICAN PROSE. 3 cr. Maximum, 6 cr.** Selected American authors. Subject matter varies. May be repeated for credit.
528. **AMERICAN POETRY. 3 cr. Maximum, 6 cr.** Selected American authors. Subject matter varies. May be repeated for credit.
530. **POETRY WRITING SEMINAR. 3 cr. Maximum, 6 cr.** A workshop in writing poetry emphasizing the control of language and line, the art of revising, and the shaping of a manuscript.
531. **FICTION WRITING SEMINAR. 3 cr. Maximum, 6 cr.** A workshop in writing fiction, emphasizing the control of style, point of view, and character development, while attending to the art of revision and the shaping of a whole work.
532. **SPECIAL TOPICS: FORMS AND THEORIES OF CREATIVE WRITING. 3 cr. Maximum, 6 cr.** A seminar in the works and aesthetics of modern and contemporary writers, both poets and fiction writers. May be repeated for credit.
533. **CREATIVE WRITING FOR TEACHERS. 3 cr.** A seminar in theories of the creative process and in the teaching of creative writing.
540. **THE RHETORIC OF SCIENTIFIC AND TECHNICAL DISCOURSE. 3 cr.** An examination of the primary modes of scientific discourse, the theories behind those modes, and the evolution of those modes into modern forms of technical discourse.
550. **ADVANCED LITERARY THEORY. 3 cr.** Advanced study of literary theory in an interdisciplinary perspective. Subject matter varies.
551. **ADVANCED MULTICULTURAL LITERATURE. 3 cr.** Advanced study of the multicultural literature of the world through theoretical and close textual analysis of the literature of a specific culture. Subject matter varies.
591. **DIRECTED RESEARCH. 3-6 cr.** Individual study of topics under the direction of a senior faculty member. Prerequisites: 21 graduate hours of English and approval of the student's adviser and of the department head.
599. **THESIS. 1-6 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.

HUMANITIES (HUMN)

For Undergraduates and Graduates

401. **CHANGING VIEW OF THE TWENTIETH CENTURY. 3 cr.** A study of contemporary society, art, science, and culture. Concerned with the problems of "future shock."

FAMILY AND CONSUMER SCIENCES

College of Arts and Sciences

Filhiol Hall 103

(318) 342-1903

FACULTY

Bessie Rene Jackson, Associate Professor and Head, Family and Consumer Sciences
Ph.D., Texas Woman's University

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

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

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

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

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

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

COURSES

FAMILY AND CONSUMER SCIENCES (FCSC)

(Formerly Home Economics)

For Undergraduates and Graduates

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

FOREIGN LANGUAGES

College of Arts and Sciences
Brown Hall 325
(318) 342-1525

FACULTY

Ruth Elizabeth Smith, Professor and Head, Department of Foreign Languages
Ph.D., University of Oklahoma

Carlos D. Fandal, Professor of Foreign Languages and Dean, College of Arts and Sciences
Ph.D., Louisiana State University

Charles Holloway, Professor of Foreign Languages
Ph.D., Louisiana State University

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

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

*Associate Member of the Graduate Faculty

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

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

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

CLASSICS (CLAS)

For Graduates Only

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

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.)

86 THE UNIVERSITY OF LOUISIANA AT MONROE

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.)

LATIN (LATN)

For Undergraduates and Graduates

- 401. ADVANCED READINGS IN LATIN. 3 cr. Maximum, 6 cr.** Study in Latin of a specific author or literary genre. Prerequisite: 202 or equivalent.

LINGUISTICS (LING)

For Undergraduates and Graduates

- 451. LANGUAGE AND CULTURE. 3 cr.** An overview of linguistic concepts and theories. Attention will be given to the history of language study and to the phenomenon of language acquisition from cultural and social viewpoints.

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.)

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.

GEOSCIENCES

College of Arts and Sciences

Hanna Hall 314

(318) 342-1878

plan. All students will participate in a weekly seminar and enroll in Geoscience 416 for at least three semesters.

COURSES

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.)

- 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.
- 409. ASIA. 3 cr.** A survey of the physical environment of the continent as a whole, followed by a detailed study of China, India, and Japan.
- 411. THE ARCHEOLOGY OF NORTH AMERICA. 3 cr.** The archeological background of North America from Mexico to the Arctic Circle; progressive states of development of prehistoric North American cultures. (Same as Anthropology 411.)
- 412. FORMER SOVIET UNION. 3 cr.** Physical and cultural environments, with special emphasis on climates, resources, industrializations, and population distribution.
- 414. THE INDIANS OF NORTH AMERICA. 3 cr.** Survey of the distribution and principal regional lifeways of North American Indian groups prior to disruption, dispersal, and the implementation of the reservation system. (Same as Anthropology 414.)
- 415. POLITICAL GEOGRAPHY. 3 cr.** Problems in production, trade, government, and world development growing out of geographic conditions. Prerequisites: 101, 102.
- 418. URBAN. 3 cr.** A geographic approach to the study of urban areas stressing location, historical development, distribution, size, growth and function; emphasis on current urban problems. Prerequisites: 101, 102.
- 420. LATIN AMERICAN FIELD COURSE. 3 cr.** Supervised geographic research and observation in a Latin American setting. Local examples illustrate broad themes in the historical shaping of the Latin American landscape. The course introductory meetings at ULM followed by field observation and discussion in a Latin American location. Prerequisite: 403 or Permission of the Instructor.
- 421. THE ARCHEOLOGY OF MEXICO. 3 cr.** An in-depth view of the development of pre-Hispanic Mexican and Meso-American cultures and civilizations from Paleo-Indian times to the Spanish Conquest; an overview of the major archeological sites pertinent to these cultures. (Same as Anthropology 421.)
- 423. ARCHEOLOGICAL FIELD TECHNIQUES. 6 cr.** A field course introducing the basic techniques of archeological mapping, excavation, cataloging, specimen preparation and preservation. A study of soils, physical stratigraphy, synecology, and techniques of artifact laboratory analysis. May be repeated once for a maximum of 12 hours credit. (Same as Anthropology 423.)

For Graduates Only

- 501. DEVELOPMENT OF GEOGRAPHIC THOUGHT. 3 cr.** Familiarization with leading geographers of the ancient world and those of the United States, United Kingdom, Germany, and France, at the present and in the recent past.
- 502. SPECIAL TOPICS. 3 cr. Maximum, 9 cr.** Topics not covered in regularly scheduled courses. Arrangements must be made with the appropriate staff member and the approval of the geography adviser must be obtained before registration. Topics: A. Settlement Geography; B. Historical Geography; C. Advanced Regional Geography.

GEOLOGY (GEOL)

For Undergraduates and Graduates

- 401. GULF COAST. 3 cr.** The physiography, stratigraphy, structure, economics and origin of the Gulf Coastal province. Prerequisites: 303, 309, 323.
- 402. PLATE TECTONICS. 3 cr.** A thorough treatment of the underlying processes driving the processes active in the solid earth, and how these processes affect modern interpretations of the geologic record. Prerequisites: 303, 309, 327, and Geoscience 330.
- 403. PETROLEUM. 3 cr.** The origin, geologic distribution, and accumulation of petroleum. Prerequisites: 303, 323.

- 405. ECONOMIC GEOLOGY—METALS. 3 cr.** The origin and distribution of metallic ores. Prerequisites: 215, 217.
- 406. ECONOMIC GEOLOGY—NON-METALS. 3 cr.** The origin, distribution, geology, and use of non-metallic ores with emphasis on Louisiana's economic minerals. Prerequisites: 215, 217.
- 407. SUBSURFACE. 2 cr.** Study and application of subsurface methods. Prerequisites: 303, 323.
- 408. SUBSURFACE LABORATORY. 2 cr.** Six hours laboratory to accompany 407.
- 410. GEOCHEMISTRY. 3 cr.** Basic principles governing the origin, distribution, and migration of elements in the earth. Prerequisites: 215, 217.
- 413. PHYSICAL MARINE. 3 cr.** A general introduction to the physical processes at work on the shores of the Mississippi Sound, with emphasis on the erosional and depositional effects of waves and currents at various tidal stages. Conducted each summer under the direction of the staff of the Gulf Coast Marine Laboratory at Ocean Springs, Mississippi. Prerequisites: 327, 329,

- 509. ADVANCED SEDIMENTATION. 2 cr.** Analysis of the processes of physical sedimentation; introduction to the hydrodynamics of sediment transport. Principles of sedimentary basin analysis; models of sedimentary environments.
- 511. ADVANCED STRATIGRAPHY. 3 cr.** A seminar devoted to oral presentations and discussions of typical stratigraphic problems and methodologies. A written report is also required.
- 513. IGNEOUS AND METAMORPHIC PETROLOGY. 2 cr.** The origin, composition, textures, occurrence, classification, and distribution of rocks.
- 515. ADVANCED VERTEBRATE PALEONTOLOGY. 2 cr.** Comparative osteology of the vertebrates, evolutionary trends, collection and preparation of fossil material, selected readings, and individual projects.
- 521. ADVANCED MICROPALAEONTOLOGY LABORATORY. 2 cr.** Six hours laboratory to accompany 501.
- 527. ADVANCED PALEONTOLOGY LABORATORY (PALEOECOLOGY). 1 cr.** Three hours laboratory to accompany 507.
- 529. ADVANCED SEDIMENTATION LABORATORY. 1 cr.** Three hours laboratory to accompany 509.
- 533. IGNEOUS AND METAMORPHIC PETROLOGY LABORATORY. 1 cr.** Three hours laboratory to accompany 513.
- 535. ADVANCED VERTEBRATE PALEONTOLOGY LABORATORY. 1 cr.** Three hours laboratory to accompany 515.
- 540. CLAY MINERALOGY. 2 cr.** Origin and occurrence of layer silicate minerals. Prerequisites: 423, 424.
- 542. CLAY MINERALOGY LABORATORY. 1 cr.** Three hours laboratory to accompany 540.
- 545. ADVANCED GROUNDWATER HYDROGEOLOGY. 3 cr.** Advanced study of the flow of water and contaminants in upper layers of the earth, including: physics of fluid flow through porous media; vadose zone; capillary fringe; fractured rock; multi-phase flow; diffusion of dissolved species; contaminant migration; numerical modelling. Prerequisite: 417.
- 551. PETROLOGY OF SANDSTONES. 2 cr.** Origin and interpretation of sandstone clans, with emphasis on thin-section description and deduction of source, environment, and diagenesis. Prerequisites: 423, 424, or Approval of Department Head.
- 552. PETROLOGY OF CARBONATES. 2 cr.** Origin and interpretation of carbonate clans, with emphasis on geochemistry, facies, thin-section description and diagenesis. Prerequisites: 423, 424, or Approval of Department Head.
- 553. SANDSTONE PETROLOGY LABORATORY. 1 cr.** Three hours laboratory to accompany 551.
- 554. CARBONATE PETROLOGY LABORATORY. 1 cr.** Three hours laboratory to accompany 552.

GEOSCIENCES (GEOS)

For Undergraduates and Graduates

- 402. PRINCIPLES OF EARTH SCIENCE. 3 cr.** Earth's place in the solar system; nature of material composing the earth; processes which have shaped and are shaping the earth; rocks, minerals, soils, topographic features and their origin; rock structures; topographic, geologic, and weather maps, and aerial photographs.
- 404. EARTH SCIENCE LABORATORY. 1 cr.** Two hours laboratory to accompany 402.
- 415. SOILS FOR THE ENVIRONMENTAL GEOSCIENTIST. 2 cr.** Fundamentals of pedology aimed at environmental geoscientists, including: soil terminology, soil genesis, the 7th Approximation soil classification system, the use of parish and county soil surveys, soil descriptions, soil toxicity, national and worldwide soil type distribution. Prerequisite: Geology 101 or Geography 213 or Permission of the Instructor.
- 416. SEMINAR. 1 cr. Maximum, 3 cr.** Presentation of oral and written reports on current geology literature and problems of special interest.
- 420. HUMAN IMPACT ON THE ENVIRONMENT. 3 cr.** This course will assess the environmental changes caused by human activity. Specifically, attention will be focused on human impacts on

HISTORY AND GOVERNMENT

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

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

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

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

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

COURSES

GOVERNMENT (GOVM)

For Undergraduates and Graduates

- 403. ETHICS. 3 cr.** A study of the theoretical foundations of morality with reference to approaches to ethical thought, character, and action. Concepts include good and evil, right and wrong, obligation and rights, responsibility freedom. The application of these concepts to the working out of particular ethical problems. (Same as PHIL 403).
- 406. POLITICAL PARTIES, CAMPAIGNS & ELECTIONS. 3 cr.** Political parties, Campaigns and Elections focuses on three closely related topics and phenomena: parties, campaigns and elections in the American context. We will be seeking to understand their parallel, and in some sense, symbiotic development and relationships. We will study the history of party politics in the United States, focusing on change and development in relationship to the dynamic American Republic. Prerequisite: GOVM 201.
- 407. WESTERN POLITICAL THEORY. 3 cr.** A study of political theory beginning with Plato and the ancient Greeks and continuing through Middle Ages, Reformation, and Enlightenment to Marx, Mills and the modern age. The central questions of political thought are explored e.g., what is the good?; what is justice?; how is political authority acquired? Where does sovereignty reside? And how do we incur obligations? Prerequisite: GOVM 201.
- 413. CONSTITUTIONAL LAW: GOVERNMENTAL POWERS. 3 cr.** A study of the U.S. Constitution

Relations; E. Comparative; F. Political Processes. Prerequisite: Advanced standing, Approval of Department Head, and Permission of the Instructor.

HISTORY (HIST)

For Undergraduates and Graduates

- 408. CONTEMPORARY HISTORY. 3 cr.** A survey of the major developments in the world over the last few decades. This course will concentrate on the problems and developments of the Gulf War, the computer revolution, the former Soviet Union and the end of the Cold War, the rise of communist China, the former Yugoslavia, majority rule in South Africa, nuclear proliferation in the Cold War and after, and the Arab-Israeli dispute. Prerequisites: HIST 112 or 202 or consent of instructor.
- 420. THE HOLOCAUST. 3 cr.** This course will confront the background, events, and consequences of the extermination of European Jews during World War II. Prerequisites: HIST 201 or 202 or consent of instructor.
- 436. AMERICAN CIVIL WAR. 3 cr.** The growing sectional conflict between the industrial North and the agrarian South; secession; major wartime problems of the Union and the Confederacy; principal military campaigns in the War's various theaters; the significance of the Civil War in American History. Prerequisite: 201.
- 437. RECONSTRUCTION AND THE NEW SOUTH, 1865-1939. 3 cr.** Reconstruction represented a larger change in the nation's than the Civil War as the South experienced its evolving stages, but more particularly, dealing with new relationships between the races. Efforts to revive agriculture and industry; the development of politics, education, religion, society, and culture from the post-bellum period through the Depression and the New Deal. Prerequisite: 202.
- 439. THE SOUTH, WORLD WAR II TO THE PRESENT. 3 cr.** World War II proved to be a significant watershed in the South. Emphasis will be placed on its industrialization, agricultural mechanization, and, especially the Second Reconstruction in Civil Rights, as well as its political, economic, religious, social, and cultural development. The South as a section will be placed in its proper perspective within the national experience. Prerequisite: 202.
- 446. U.S. MILITARY HISTORY, 1775-1865. 3 cr.** This course examines the development of the U.S. Military and the wars it fought from the American Revolution through the Civil War.

- 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

98 THE UNIVERSITY OF LOUISIANA AT MONROE

widespread revolution, the unification of Bismarckian Germany, and the spread of European Imperialism. Prerequisite: 112. (Formerly Europe, 1815-1914.)

- 481. EUROPE, 1890-1945. 3 cr.** This course surveys European history from the close of the 19th century to the end of World War II. The focus is primarily upon national and international politics, but with careful attention to economic, social and cultural developments in their relationship to political change. Prerequisite: 112. (Formerly Europe Since 1914.)
- 483. TUDOR AND STUART ENGLAND, 1485-1714. 3 cr.** The principal political, economic, social, religious, and cultural developments from the beginning of the Tudor dynasty to the Hanoverians. The New Monarchy and conciliar government; the experiment and failure of the Stuarts in Divine Right Monarchy; the beginnings of party and cabinet government. Prerequisites: 111, 112.
- 485. ENGLISH CONSTITUTIONAL AND LEGAL HISTORY. 3 cr.** Emphasis on the unique legal and constitutional developments of the English system in Western Europe and their impact on American political thought. The class will consider the notion of limited government, the rule of law and the development of political party government from 1730 to 1979. The latter part of the class will concentrate on the decline of the Liberal Party, the rise of the Labour Party and the important legal reforms since World War II. Prerequisites: 111, 112.
- 487. FRENCH HISTORY. 3 cr.** A survey of French political institutions, cultural developments, and social structure from approximately 800 to the present time. Topics will include Charlemagne, the French Revolution and Napoleon, and France's position in the modern world. Prerequisites: 111, 112.
- 488. REVOLUTIONARY FRANCE, 1789-1871. 3 cr.** A survey of the political, social, economic and cultural history of France from the origins of the French Revolution to the collapse of the radical Paris Commune in 1871. The course will explore the vast changes in France that transformed it from a pre-industrial state of peasants and aristocrats to a world of modern industry and technology. Prerequisite: 112.
- 490. EAST CENTRAL EUROPE SINCE 1400. 3 cr.** This course will examine the social, political, economic, and cultural development of the lands traditionally known as Poland, Hungary, Bohemia, and Ukraine from the late Middle Ages to the present. This course will introduce the main forces and personalities that shaped Eastern European history in the past and continue to shape it today.
- 492. RUSSIA TO 1917. 3 cr.** Founding of the nation, tsarist institutions, conditions leading to the revolutions of 1917. Prerequisite: 112.
- 493. SOVIET UNION AND COMMONWEALTH OF INDEPENDENT STATES. 3 cr.** The revolutions of 1917 and the development of the Soviet system. Political, social, and economic developments in the U.S.S.R. with special attention to the role of the Soviet Union in world affairs. The collapse of the U.S.S.R. and the emergence of the Commonwealth of Independent States. Prerequisite: 112.
- 495. TOPICS IN HISTORY. 1-6 cr. each. Maximum, 6 cr.** Specialized study of topical events in history. Content varies. A. Canada (3 cr.); B. Local and Family History (3 cr.).

For Graduates Only

- 504. THE RISE OF SOUTHERN NATIONALISM, 1846-1861. 3 cr.** The developing split between the northern and southern sections during and after the War with Mexico over slavery and its expansion, the tariff, states rights, transcontinental railroads and other issues gave rise to the South seeing itself as a distinctive minority section, which should develop its own nationhood. Other topics to be reviewed will include politics, economics, religion, education, society, and culture.
- 506. CIVIL WAR MILITARY HISTORY. 3 cr.** The Civil War is considered to have been the first modern war. This course will examine how the war transformed warfare in general, the strategy pursued by both the Union and Confederate forces, major campaigns and battles, and the personalities of the opposing leaders.
- 508. LOUISIANA IN THE CIVIL WAR AND RECONSTRUCTION. 3 cr.** A detailed study of the Civil War and Reconstruction in Louisiana and the role the state and its people played in those events. Special emphasis will be placed on military activity during the war and politics and race relations during Reconstruction.

- 513. THE AMERICAN HERITAGE. 3 cr.** A social and intellectual history of the United States from colonial times to the present with emphasis on ideas and social forces which have shaped the American mind and society.
- 516. THE MAKERS OF AMERICA. 3 cr. each. Maximum, 6 cr.** Biographical studies of prominent Americans: A. 1607-1800; B. 1800-1865; C. 1865-1914; D. 1914-Present; E. Latin America.
- 517. THE AMERICAN REVOLUTION. 3 cr.** This course will investigate the causes, development and impact of the American Revolution upon both domestic and western European societies. An emphasis will be placed upon the evolution of republican thought as well as the Tory/conservative reaction. The course will also focus upon the revolutionary changes in the South and within Native-American communities.
- 523. WESTERN CIVILIZATION. 2.5 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 524. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 525. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 526. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 527. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 528. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 529. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 530. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 531. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 532. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 533. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 534. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 535. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 536. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 537. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 538. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
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- 540. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 541. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 542. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 543. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 544. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 545. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 546. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 547. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 548. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 549. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.
- 550. THE AMERICAN WEST. 3 cr.** A. Middle Ages; B. Renaissance; C. 17th-18th century Europe; D. 19th century Europe; E. 20th century Europe.

100 THE UNIVERSITY OF LOUISIANA AT MONROE

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.

SCHOOL OF VISUAL AND PERFORMING ARTS

College of Arts and Sciences

ART

Stubbs Hall 141
(318) 342-1375

FACULTY

Robert George Ward, Professor of Art
M.F.A., Louisiana Tech University

***Cliff Tresner**, Associate Professor of Art
M.F.A., University of Mississippi

***Brian Robert Fassett**, Associate Professor of Art
M.A., Wayne State University

***Gary Lynn Ratcliff**, Associate Professor of Art
M.F.A., Spring Arbor College

***Richard Eugene Hayes**, Assistant Professor of Art
M.F.A., Indiana University

*Associate Member of the Graduate Faculty.

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.

COURSES

ART (ART)

For Undergraduates and Graduates

- 401. ADVANCED CERAMICS. 3 cr.** Maximum, 12 cr. Origin and properties of ceramics raw materials and problems in glaze research. One hour lecture and five hours studio. Prerequisite: 203 or 204.

- 402. CREATING PAPER/CASTING AND MOLDING. 3 cr.** Study and processing of basic skills in creating paper from laminations to cast paper. One hour lecture, 5 hours laboratory per week.
- 403. ANALYTICAL PERSPECTIVE. 3 cr.** The use of principles of geometry in the development of spatial logic and imagery in one-point, two-point, and isometric perspective. Techniques in rendering support procedures in architecture, illustration, and industrial and environmental design. For art majors and non-art majors. Six hours studio.
- 404. ADVANCED DRAWING. 3 cr. Maximum, 12 cr.** Advanced drawing. Primarily life drawing in a variety of media. Six hours studio. Prerequisite: 104.
- 405. ADVANCED GRAPHIC DESIGN. 3 cr. Maximum, 12 cr.** Design problems to develop professional studio skills and practices in graphic design. Develop methods of problem solving with specific production limitations. Methods of presentation. One hour lecture and five hours studio. Prerequisite: 206.
- 406. COMPUTER ART. 3 cr.** Decision making with the graphic computer, creation to production. Computer-aided visual design including image origination as well as input, output, selection, editing, alteration, and manipulation. Prerequisites: 101, 103; Computer Science 163 and 167, or Approval of Department Head. Six hours studio.
- 407. RAKU CERAMICS. 3 cr.** Lecture and demonstrations on use of Raku ceramics, including kiln construction and firing. One hour lecture and five hours studio.
- 408. ART APPLICATIONS IN TEACHING. 3 cr.** Mixed media; drawing multi-image processes, enlargement techniques, and three-dimensional poster material are utilized in visual aid techniques.
- 409. TECHNIQUES IN THE FINE ARTS. 3 cr.** A study, analysis, and participation in the productions of various media in the fine arts such as drawing, painting, printing, and sculpture. For non-art majors.
- 411. ART FOR THE ELEMENTARY SCHOOL. 3 cr.** Problems in elementary school art for the classroom teacher.
- 412. ART EDUCATION. 3 cr.** Theories in Art Education and their relationship to the planning, development, evaluation, and administration of Art Education programs in public schools.
- 418. ART FOR TEACHERS OF EXCEPTIONAL CHILD. 3 cr.** Objectives, methods, and materials used in teaching the mentally retarded, gifted, talented, and the slow learner.
- 425. RENAISSANCE. 3 cr.** The visual arts in Italy from the early Renaissance through Mannerism. Prerequisite: 201, 202.
- 426. NINETEENTH CENTURY. 3 cr.** Nineteenth Century European and American Rococo through Post-Impressionism periods. Prerequisites: 201, 202, or Approval of the Department Head.
- 429. CONTEMPORARY. 3 cr.** Twentieth century European and American Art. A study of the major achievements in painting, sculpture, and architecture since 1900. Prerequisite: 201, 202.
- 431. WATERCOLOR. 3 cr.** Painting in watercolor. Prerequisites: 101, 103, or Approval of Department Head.
- 440. METALCRAFT AND JEWELRYMAKING. 3 cr.** The designing and fabrication of jewelry and small metal products. One hour lecture and five hours studio. Prerequisite: 102 or Approval of Department Head.
- 441. SPECIAL PROBLEMS. 3 cr. per area.** Any area may be repeated. A maximum of 12 hours allowed toward the degree. A. Graphic Design; B. Ceramics; C. Painting; D. Photography; E. Drawing; F. Printing; G. Sculpture.
- 443. SEMINAR IN ART HISTORY. 3 cr. Maximum, 12 cr.** The study of various eras and developments in world art. A. Expressionism. B. Baroque. C. Far Eastern. D. Theory. Prerequisites: 201, 202, or Approval of Department Head.
- 451. ADVANCED PRINTMAKING. 3 cr. Maximum, 12 cr.** Research problems in printmaking; choice of media. One hour lecture and five hours studio.
- 455. ADVANCED PHOTOGRAPHY. 3 cr. Maximum, 12 cr.** Individual instruction in planning and executing a personal response to the visual elements and creative composition. One hour lecture and five hours studio. Prerequisite: 246.
- 461. ART THEORY/PORTFOLIO. 1-2 cr.** Individual directed study on specific problems related to art theory or studio. May be repeated for a maximum of 2 semester hours. For art majors and non-art majors.

- 471. ADVANCED PAINTING. 3 cr. Maximum, 12 cr.** Independent problems in choice of media; emphasis upon personal solutions. One hour lecture and five hours studio. Prerequisites: 271 or 272.
- 481. ADVANCED SCULPTURE. 3 cr. Maximum, 12 cr.** Advanced problems in sculptural processes and techniques. Emphasis upon individual creative expression. One hour lecture and five hours studio. Prerequisite: 381.
- 495. RESEARCH PROBLEMS. 3 cr. Maximum, 12 cr.** Individual and group study with Approval of Department Head. Research, discussion, and criticism.

For Graduates Only

Christopher Thompson, Professor of Music and Chair, String Division
D.M.A., Louisiana State University

***Robert J. Blaine, III**, Assistant Professor of Music
D.M.A., Eastman School of Music

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

***Jon G. Lindsey**, Assistant Professor of Music and Assistant Director of Bands
M.M., University of Illinois

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

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

***Marilynn Gibson**, Assistant Professor of Music
M.M.E., University of North Texas

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

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

*Associate Member of the Graduate Faculty

DEGREES: M.M. in Music

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

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

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

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

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

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

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

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

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

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

COURSES

MUSIC (MUSC)

For Undergraduates and Graduates

- 401. OPERA PERFORMANCE AND PRODUCTION. 3 cr.** Musical and dramatic preparation of opera roles, and basic techniques of staging and presentation. Participation in opera performances. May be repeated for credit.
- 402. SPECIAL PROBLEMS. 1-3 cr.** Investigative study of special problems by students with particular needs in music. A. Performance and Ensemble; B. History and Literature; C. Theory and Composition; D. Piano Pedagogy and Literature; E. Vocal Diction, Pedagogy, and

Literature; F. Music Theatre. Prerequisite: Approval of the Head of the Division of Music. May be repeated.

423. ORCHESTRA. 1 cr. per semester. May be repeated for credit. Total hours allowed vary with each degree program. Prerequisite: Approval of the Division Head. (Formerly 323.)

426. WIND ENSEMBLE. 1 cr. per semester. May be repeated for credit.

- 478. EIGHTEENTH CENTURY COUNTERPOINT. 3 cr.** The composition of fugues, motets, and other polyphonic works, using the literature of the Baroque Era as a frame of reference. Prerequisite: 272.
- 479. INSTRUMENTAL CONDUCTING. 2 cr.** Prerequisite: 273.
- 480. TWENTIETH CENTURY COUNTERPOINT. 3 cr.** Twentieth century contrapuntal practice culminating with the composition of one or more major polyphonic work.
- 481. ANALYSIS OF CONTEMPORARY MUSIC. 3 cr.** Harmonic and structural analysis of representative works by such composers as Debussy, Sibelius, Bartok, and Schoenberg.
- 482. ORGAN HISTORY AND LITERATURE. 3 cr.** Organs and organ literature from the Gothic era to the present. Prerequisite: 193.
- 483. WOODWIND LITERATURE. 3 cr.** Solo and chamber music written for woodwind instruments. Prerequisite: 193.
- 484. BRASS LITERATURE. 3 cr.** Solo and chamber music written for brass instruments. Prerequisite: 193.
- 485. AMERICAN. 3 cr.** American music from early Colonial times to the present, including music of different races and ethnic groups. Prerequisite: 492 or Approval of Head of the Division of Music. (Formerly 591.)
- 486. SURVEY OF MUSIC THEATRE. 3 cr.** A survey of the history and literature of the music theatre, 1800 to the present, with emphasis on 20th century works and composers.
- 493. THE ROMANTIC ERA. 3 cr.** Music of the Romantic era and its place in the general culture of the period. Prerequisite: 492 or Approval of Head of the Division of Music.
- 494. CONTEMPORARY. 3 cr.** Music from the period of Impressionism to the present. Prerequisite: 492 or Approval of Head of the Division of Music.
- 495. ORCHESTRAL LITERATURE. 3 cr.** Orchestral music from the Baroque period to the present. Prerequisite: 193.
- 496. SONG LITERATURE. 3 cr.** Music for solo voice from the Baroque period to the present with particular attention to the Romantic period. Prerequisite: 193.
- 497. KEYBOARD LITERATURE. 3 cr.** Music for keyboard instruments from the English virginal school to the present.
- 498. CHORAL LITERATURE. 3 cr.** Choral music from the Renaissance to the present. Prerequisite: 193.
- 499. THE CLASSIC ERA. 3 cr.** Music of the Classic era and its place in the general culture of the period. Prerequisite: 492 or Approval of Head of the Division of Music.

For Graduates Only

| | |
|------------------------|------------|
| Trombone..... | 556 |
| Euphonium | 557 |
| Percussion..... | 558 |

- 561. MUSIC HISTORY I. 2 cr.** A study of music of the Middle Ages and the Renaissance; the history of music from ca. 800-1600.
- 562. MUSIC HISTORY II. 2 cr.** A study of music of the Baroque and Classical eras; the history of music from ca. 1600-1815.
- 563. MUSIC HISTORY III. 2 cr.** A study of music of the Romantic and Modern eras; the history of music from ca. 1815 to the present.
- 572-573. ADVANCED COMPOSITION. 3 cr. each.**
- 575. ADVANCED COUNTERPOINT. 3 cr.** Larger polyphonic forms in sixteenth, eighteenth and twentieth century styles.
- 579. SEMINAR IN MUSIC THEORY. 3 cr.** A comprehensive course in music theory, from fundamental to advanced contemporary techniques. Written and aural work.

- 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.
- 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.

490. CHORAL REPERTO12.

490 CHORAL REPERTOelation. P8RE. 3 crAND F3 1IRE.5 prSTRUY.

- 541. APPLIED TECHNIQUES. 1 cr. Maximum, 3 cr. each area.** An applied approach to the study of teaching methods, techniques, and materials for the graduate music student. A. Voice; B. Keyboard; C. Strings; D. Woodwinds; E. Brasses; F. Percussion. Prerequisite: Approval of the Head of the Division of Music.
- 587. DIRECTED STUDY. 1-3 cr.** Individual research on selected topics in vocal and/or instrumental music education. Prerequisite: Approval of the Head of the Division of Music.

COLLEGE OF BUSINESS ADMINISTRATION

BUSINESS ADMINISTRATION
College of Business Administration
Administration Building 2-37
(318) 342-1100

FACULTY

Kenneth E. Clow, Professor of Marketing and Dean
Ph.D., University of Arkansas at Fayetteville

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

John Paul Dunn, Professor of Marketing and Distinguished Professor of Entrepreneurship
and Small Business and Director, Entrepreneurship Studies Center
Ph.D., University of Arkansas

F. Jerry Ingram, Professor of Finance
Ph.D., University of South Carolina

David L. Loudon, Professor and Head, Department 10.4901 - Professor of 8.4901 - TD 37

Kathryn Jones, Associate Professor of Management
Ph.D., University of Tennessee

Paul S. Nelson, Associate Professor of Economics
Ph.D., Texas A&M University

***Jacqueline O'Neal**, Associate Professor of Business Law
J.D., University of Arkansas; C.P.A. (Inactive), Louisiana

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

William N. Weirick, Associate Professor of Economics
Ph.D., University of Wyoming

J. Howard Baker, Assistant Professor of Computer InforlweC[E Systems
Ph.D., University of Texas at Arlington

William D. Barnett, Assistant Professor of Computer InforlweC[E Systems
Ph.D., University of Texas at Arlington

***Mohamed-Amin Futayyeh**, Assistant Professor of Economics
Ph.D., University of Oklahoma

Aleecia R. Hibbets, Assistant Professor of Accounting
A.B.D., University of Alabama; C.P.A. (Inactive), Louisiana

Christine T. Hollman, Assistant Professor of Insurance
Ph.D., Florida State University

Mingsheng Li, Assistant Professor of Finance
Ph.D., University of Memphis

Melissa V. Melancon, Assistant Professor of Finance
D.B.A., Louisiana Tech University; C.M.A.; C.F.M.

Bruce C. Walker, Assistant Professor of Management
Ph.D., University of Arkansas

***James T. Wood**, Assistant Professor of Computer InforlweC[E Systems
Ph.D., University of Texas at Arlington

based on a broad range of criteria, and no particular level of academic performance or test scores will guarantee acceptance or ensure rejection.

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.

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 MBA Director.
- 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: Economics 201 and 202, or 502; and the Permission of the MBA Director.
- 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 MBA Director.
- 520.512. (Individual study of advanced CR (Credit) or NC (No Credit) 54.8Cicies, t-- wCons1 TD e e881((r decisiut-)Tj 215.48.**

dynamics, and management roles and responsibilities. Prerequisites: Management 301;

INSURANCE

591. DIRECTED STUDY. 3 cr. Individual study of advanced marketing topics under the direction of a Senior faculty member. Prerequisites: Twelve semester hours of BMBA courses and a minimum graduate GPA of 3.5.

QUANTITATIVE METHODS (QMDS)

For Undergraduates and Graduates

411. OPERATIONS RESEARCH. 3 cr. Operations research techniques including linear programming, dynamic programming, game theory, queuing theory, Monte Carlo method and simulation

**COLLEGE OF EDUCATION AND
HUMAN DEVELOPMENT**

CURRICULUM AND INSTRUCTION

College of Education and Human Development

Strauss Hall 208

(318) 342-1266

FACULTY

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

Gary Stringer, Professor of Geology and Education and Head, Department of Curriculum and Instruction
Ph.D., The University of Southern Mississippi

Mike Beutner, Associate Professor of Curriculum and Instruction
Ph.D., Ohio University

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

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

JoAnne R. Welch, Professor of Curriculum and Instruction
Ph.D., Louisiana State University

Peggie Jelks, Associate Professor of Curriculum and Instruction
Ed.D., Ball State University

Rhonda Adams Jones, Associate Professor of Curriculum and Instruction and Mathematics; Director of Continuing Education
Ed.D., University of Georgia

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

Beverly Flowers-Gibson, Assistant Professor of Curriculum and Instruction and Director of Field Experiences and Teacher Certification
Ed.D., Louisiana Tech University

Beth Ricks, Assistant Professor of Curriculum and Instruction
Ph.D., Arizona State University

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

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

Jerrilene Washington, Assistant Professor of Curriculum and Instruction
Ed.D., John Hopkins University

***Margaret Henderson**, Instructor of Curriculum and Instruction
M.Ed., Louisiana Tech

***Andrea Lynn Morris**, Visiting Instructor of Curriculum and Instruction
M.Ed., The University of Louisiana at Monroe

*Associate Member of the Graduate Faculty

DEGREES: M.Ed. in Elementary Education
M.Ed. in Reading
M.Ed. in Secondary Education
M.Ed. in Special Education
Ed.S. in Curriculum and Instruction
Ed.D. in Curriculum and Instruction (see Doctor of Education)

MINOR REQUIREMENTS:

PROGRAM REQUIREMENTS (Elementary Education Alternative Certification M.A.T.): Thirty semester hours to include Curriculum 500A, 545A, Educational Foundations 401, 524, 581, Elementary Education 510, 511, Kinesiology 442, Psychology 503, Reading 502, and 6 semester hours of internship, Curriculum 483A, for a total of 36 semester hours for the degree.

To successfully complete CURR 483A, candidates must meet all other eligibility

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.

THE EDUCATION SPECIALIST DEGREE

Admission to the Education Specialist Degree Program

In addition to meeting the requirements for admission to Graduate School, the applicant must: (1) hold a master's degree from a regionally accredited college or university, (2) submit a minimum score of 2500 on a scale determined by multiplying the grade-point average on all graduate work pursued by the combined scores on the Graduate Record Examination General Test (Quantitative plus Verbal).

Students who score between 2300 and 2500 (GRE X GPA) may be admitted conditionally. Students without the master's degree, eligible for regular admission to the Graduate School, may be granted conditional admission to the Education Specialist degree program. Upon the completion of 30 semester hours applicable to the area of specialization with a grade-point average of not less than 3.0 on a 4.0 scale on all work pursued, full admission to the program will be granted.

Program of Study for the Education Specialist in Curriculum and Instruction: Degree candidates must complete a minimum program of 60 semester hours of graduate credit above the bachelor's degree, including a minimum of 30 semester hours after receipt of the master's degree. A minimum of 36 semester hours of credit must be earned in courses open only to graduate students. When a student is admitted to the Education Specialist degree program, the Director of Graduate Studies and Research, upon the recommendation of the head of the department in which the student plans to major, will appoint a major professor. Upon the 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, one of whom may be from an academic area outside the field of education. At the approximate point when the student has earned between one-fourth and one-half of the required hours for the specialist degree, the graduate advisory committee and the student, under the direction of the major professor, should prepare and submit a formal degree plan, subject to the approval of the Director of Graduate Studies and Research.

Observing this sequence will assure a measured progression of events designed to maintain proper advisory and administrative procedure and at the same time assist the student in the achievement of important academic and career goals.

A field study or thesis with a maximum of six semester hours credit must be completed by each degree candidate. The requirement may be met at either the master's or specialist's level.

Degree programs for classroom teachers must include a minimum of 24 semester hours of credit in professional education, 27 semester hours of credit in the teaching field(s) of the student and an additional nine hours to be selected to meet the specific needs of the student.

Requirements for the Education Specialist 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 "C" and not more than six hours credit with a grade of "C".

The student must pass written and oral comprehensive examinations. For students writing a field study or thesis during the final 30 semester hours, the oral examination shall include a defense of the field study or thesis.

Students must complete three years of teaching or appropriate professional experience before the Education Specialist degree is granted. The student shall supply the Director of Graduate Studies and Research with a statement certifying the appropriate period of employment.

Students must present four acceptable copies of the field study or thesis in final form and one additional copy of the abstract to the Office of Graduate Studies and Research by the deadline as stated in the University Calendar of the Graduate Catalog.

The student's graduate 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 Education Specialist Degree

Students having earned the master's degree must enroll for a minimum of one semester or two summer sessions as a full-time student at this University.

Transfer of Credit for the Education Specialist Degree

A maximum of nine semester hours of graduate work beyond the master's degree, earned prior to admission to the specialist program, may be included in the 30 semester hours of required work. nu

128 THE UNIVERSITY OF LOUISIANA AT MONROE

For graduate credit a valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.

- 470. **DRUG ABUSE EDUCATION. 3 cr.** Content and techniques for elementary and secondary school curriculum development and implementation in the area of drug abuse.
- 475. **CRISIS INTERVENTION IN SCHOOLS. 3 cr.** Designed to provide students practical training for non-violent intervention in the school setting. It will focus on ways to defuse and handle with confidence children, adolescents and adults who are disruptive and violent, and how to cope with violent confrontations and students armed with weapons. Prerequisite: Junior standing or Permission of Instructor.
- 481. **CONTINUING STUDIES IN CURRICULUM AND INSTRUCTION. 1-3 cr.** Various topics in curriculum and instruction. May be repeated. Credit may not be applied toward a degree. Grade of CR (Credit) or NC (No Credit) will be awarded.
- 482. **TECHNOLOGY FOR TEACHING AND LEARNING. 3 cr.** Provides experiences with planning and delivery of instruction that integrates a variety of software, hardware, applications, and learning tools. Develops technology and content rich lessons that promote improved students learning and reflect effective grouping and assessment strategies for diverse populations. Prerequisite: CURR 285 or Permission of Instructor.
- 483. **PRACTICUM. 3-6 cr.** Internship program designed to give supervised experience in the school. A. Elementary; B. Secondary. May be repeated for a total of 12 hours credit. Prerequisite: must be admitted to Teacher Education and have approval of Director of Field Experiences. Must meet all other eligibility requirements for Louisiana Teaching Certificate in field of study to earn credit and grade.
- 485. **INTEGRATING TECHNOLOGY INTO THE K-12 CURRICULUM. 3 cr.** Provides a survey of and practice with the applications of instructional technology to enhance learning. It provides a review of current and emerging technologies in instruction through an introduction to current research and variety of instructional software and hardware. Prerequisite: CURR 285 or Permission of Instructor.
- 491. **DIRECTED STUDY. 1-6 cr.** Investigative study on selected problems by students with particular needs.

For Graduates Only

- 500. **CLASSROOM MANAGEMENT AND ORGANIZATION. 3 cr.** Study and application of theories and principles of effective classroom behavior and management techniques, organization, and delivery. Field-based participation required. A. Elementary; B. Secondary. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 503. **INSTRUCTIONAL STRATEGIES FOR MIDDLE AND SECONDARY SCHOOLS. 3 cr.** Study and application of teaching strategies and techniques that are applicable to grades 7 - 12. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.
- 505. **COMPUTER APPLICATIONS FOR EDUCATORS. 3 cr.** Extensive work with software utilization and applications. Prerequisite: 482 or Computer Science 503. Sp
- 514. **SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION. 3 cr. Maximum, 9 cr.** Designed to meet the needs of advanced graduate students in elementary and secondary education. This course will allow for the development of advanced specific and appropriate strategies and practices necessary in the changing educational setting. A. Interactive Educational Practices; B. Content Restructuring; C. Specific Skill Development; D. Effective Use of Methods and Materials; E. Integrating Various Aspects of Content; F. Managing the Physical and Organizational Structure in the Classroom; I. Other. J. Professional Standards; K. Current Trends. Prerequisites: Must have credit in a methods, behavior management, and/or a curriculum course at the graduate level.
- 516. **TEACHING IN A COMPUTERIZED CLASSROOM. 3 cr.** This course will provide experiences in the use of various technologies in content-specific areas. Prerequisite: 482 or Computer Science 503 or Permission of Department Head.
- 518. **EDUCATION IN THE INFORMATION AGE. 3 cr.** This course will explore technologies that are presently being used as educational tools, and prepare students for technology use beyond the computer based information systems. Prerequisite: 482 or Computer Science 503 or Permission of Department Head.
- 519. **CURRENT TRENDS IN JUNIOR HIGH AND MIDDLE SCHOOL INSTRUCTION. 3 cr.** Contrasting patterns of programs for early adolescents; characteristics of middle school and junior high pupils; trends and instructional patterns. Prerequisite: Valid Louisiana teaching certificate or equivalent or written permission from Certification Coordinator.

- 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 1.04oh3lopyE119 0 TDIEARLY C462 1.OD EDUCATION. 3 cr.**452.An investigf nurser.61
- F.
Louisiana teaching certificate or equivalent or written permission from Certification

- 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

- 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.

- 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.
- 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

George E. Rice, Professor of Educational Leadership
Ph.D., The University of Mississippi

Gary L. Stringer, Professor of Geology and Education and Head, Department of Curriculum and Instruction
Ph.D., University of Southern Mississippi

JoAnne R. Welch, Professor of Curriculum and Instruction

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

ASSOCIATE II MEMBERS

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

Beverly Flowers-Gibson, Assistant Professor and Director of Field Experiences and Teacher Education
Ed.D., Louisiana Tech University

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 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 and technology.

The programs are designed for P-12 personnel, including teachers and administrators. The primary goal of the doctoral programs is the preparation of practitioner-scholars for roles in elementary, middle, and secondary school settings.

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

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

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

The applicant must have completed the Graduate Record Examination (GRE) with a minimum score of 1000 (Verbal and Quantitative) or 1500 (Verbal, Quantitative and Analytical).

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. |

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*.

COURSES

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 processing of research data. Laboratory sessions are required. Prerequisite: LEC 700
- 702. EVALUATION THEORY AND PRACTICE. 3 cr.** This course investigates the theories and practices associated with performance evaluation, focusing on individual, instrument, and program evaluation and the decision-making processes associated with each.
- 703. QUALITATIVE RESEARCH IN EDUCATION. 3 cr.** This course examines theories and methods of qualitative educational research, including ethnography, case studies, interview studies, and document analysis. Prerequisite: LEC 700.
- 704. SOCIOCULTURAL ISSUES IN EDUCATION. 3 cr.** This course examines and analyzes sociocultural issues relating to the delivery of educational services in school districts with diverse student populations.
- 705. PROBLEM-SOLVING AND DECISION-MAKING PROCESSES. 3 cr.** Applied strategies and techniques involved in problem-solving behaviors are presented. Models of decision-making are explored with emphasis on methods and involvement in decision-making.

- 706. INTERPERSONAL COMMUNICATION AND CONFLICT RESOLUTION. 3 cr.** Methods and styles of positive interpersonal communication and techniques and methods of conflict resolution utilized by administrators and faculty are presented.
- 707. CURRICULUM THEORY AND DESIGN. 3 cr.** This course focuses on school curriculum theory, design, revision, reform and critical issues.
- 708. MODELS OF TEACHING; THEORIES AND APPLICATION. 3 cr.** This course builds the requisite knowledge and skills for selecting and implementing various teaching models congruent with specific teaching and learning needs.
- 709. RESEARCH ON EFFECTIVE TEACHING AND LEARNING. 3 cr.** This course examines research-based theories and practices of teaching and learning, including diagnosing student needs and selecting appropriate learning strategies.
- 710. FOUNDATIONS AND PROCEDURES FOR PROFESSIONAL DEVELOPMENT. 3 cr.** This course focuses on analysis of the professional environment with emphasis on procedural strategies for professional development as evidenced by teaching, service, and research.
- 711. ADVANCED THEORY AND RESEARCH IN EDUCATIONAL LEADERSHIP. 3 cr.** Conceptual models used to define and explain learning organizations and the investigation of roles, strategies, and methods used by educational leaders are presented.
- 712. ADVANCED PRINCIPLES OF ORGANIZATION AND ADMINISTRATION OF SCHOOLS. 3 cr.**
- 710. FOUNDATION OF HUMAN CONFLICT RESOLUTION AND PROFESSIONAL DEVELOPMENT. 3 cr.** 54.8()TJ /F3 1 TSH16.3

140 THE UNIVERSITY OF LOUISIANA AT MONROE

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

William Harper Gaushell, Professor of Marriage and Family Therapy
Ed.D., University of Houston

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

Wendel A. Ray, Professor of Marriage and Family Therapy
Ph.D., Nova University

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

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

***David Hale**, Adjunct Associate Professor of Marriage and Family Therapy
Ph.D.

*Associate Member of the Graduate Faculty

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 Instructional 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.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; 12 semester hours of Marriage and Family Therapy 670; for a total of 63 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

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

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

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

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

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

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

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

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

- Six semester hours of practicum minimum. These one credit hour experiences shall be obtained in a minimum of six consecutive semesters as defined in the outline of the course of study. This clinical experience shall be obtained at the ULM Marriage and Family Clinic.
- Six semester hours of internship minimum. These internship hours shall be obtained over a continuous nine to 12 month experience and shall consist of not fewer than thirty hours per week. This internship will include a minimum of five hundred client contact hours and one hour per week of individual supervision. It is expected that this

AAMFT approved supervisor (or the equivalent). A contract detailing expectations and requirements for the internship experience will be signed by all parties before student placement at the internship site.

Dissertation: In addition to the research course requirements, all doctoral students are required to complete a dissertation. Dissertation topics will be related to the field of marriage and family therapy or marriage and family studies. Students are encouraged to pursue the identification of a dissertation topic and the review of the literature prior to the

experience, the course includes laboratory demonstrations and practice to develop initial counseling skills.

- 480. **EFFECTIVE PARENTING. 3 cr.** Designed to help students and parents-to-be understand the principles and techniques of establishing effective parent-child relationships.
- 481. **CONTINUING STUDIES IN COUNSELING AND THERAPY. 1-3 cr.** Various topics in counseling, therapy and human relations. May be repeated. Credit may not be applied toward a degree. Grade of CR (Credit) or NC (No Credit) will be awarded.
- 491. **DIRECTED STUDY. 1-6 cr.** Investigative study on selected problems by students with particular needs.

For Graduates Only.

- 501. **INTRODUCTION TO COUNSELING. 3 cr.** This course provides an introduction to the counseling profession. Principles, purposes, historic events, current concerns, societal-legal-ethical issues are covered. This course serves as an orientation to the profession. (Formerly Counseling: Principles and Administration.)
- 505. **THEORIES OF COUNSELING. 3 cr.** A survey of the major counseling theories, with emphasis on application of the theories in counseling sessions and an integration of theories into a unified counseling strategy which each student will develop based on that student's counseling strengths.
- 510. **METHODS OF COUNSELING. 3 cr.** This course is designed to teach basic counseling methods and to enable the student to apply the counseling methods through participation in simulated and real counseling experiences. Prerequisites: 505 or concurrent enrollment.
- 521. **MALADAPTIVE BEHAVIOR. 3 cr.** A study of normal and abnormal manifestations of individual personality development including theory and diagnosis. Emphasis will be placed on integration of this material with systems concepts. (Formerly Individual Development. Same as Marriage and Family Therapy 521.)
- 522. **HUMAN GROWTH AND DEVELOPMENT. 3 cr.** A study of human growth and development throughout the life span.
- 529. **INTERAGENCY AND INTERDISCIPLINARY TEAMING. 3 cr.** Designed to provide information, skills, and strategies necessary for interventionists working in a collaborative/teaming service provision structure. Prerequisite: Special Education 527 or permission of instructor. (Same as Special Education 529.)
- 550. **EFFECTIVE CONSULTATION. 3 cr.** Designed to build competencies of educators in consultation skills with educational administrators, ancillary personnel, teachers, parents, students, and other professionals. (Same as Special Education 550.)
- 560. **STRATEGIES OF LIFE AND CAREER DEVELOPMENT. 3 cr.** The study of theories and trends in career development with direct implementation of theories into practices.
- 561. **COUNSELING TECHNOLOGY AND INFORMATION SYSTEMS. 3 cr.** Methods of collecting, interpreting, presenting, and evaluating vocational and educational information.
- 562. **ASSESSMENT: METHODS AND MEASURES. 3 cr.** The study of individual, group, and family assessment methods and measures.
- 564. **ORGANIZATION AND ADMINISTRATION OF COUNSELING PROGRAMS. 3 cr.** This course is designed to provide students with the specific knowledge and skills necessary to organize, administer, and evaluate counseling programs in various settings.
- 565. **PRACTICUM IN COUNSELING. 3-6 cr.** Students provide vocational, educational, personal, and family counseling under staff supervision. A minimum of one hundred hours of counseling is required. This course, when offered in the summer, will be offered as a ten-week course. Prerequisites: 505, 510, and 667. (Counseling majors only or permission of department head.)
- 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.** Study of principal research methods, significant existing research, and application of research principles in counseling and marriage and family therapy.
- 591. **DIRECTED STUDY. 1-6 cr.** Investigative study in selected problems for advanced graduate students.
- 599. **THESIS. 1-6 cr.** Grades of CR (Credit) or NC (No Credit) will be awarded.
- 611. **COLLEGE STUDENT PERSONNEL SERVICES. 3 cr.** Study of the role and function of student services within colleges and universities.
- 650. **COUNSELING WITH SPECIAL POPULATIONS. 3 cr. Maximum, 12 cr.** The study of unique features and problems in working with special populations. Designed as a post-practicum experience, involving course work and laboratory activity. A. Mature and Aged Populations; B. Multicultural Populations; C. Sexual Minority Populations; D. Selected Populations.
- 662. **HUMAN SEXUALITY. 3 cr.** A study of the biological, psychosocial, clinical, and cultural aspects of human sexuality. (Same as Marriage and Family Therapy 662.)

- 663. LEGAL AND ETHICAL ISSUES. 3 cr.** A study of the legal, ethical, and professional concerns in the practice of counseling and marriage and family therapy.
- 664. FAMILY CONSULTATION. 3 cr.** A study of the models and process of family consultation used in marriage and family therapy.
- 665. ADVANCED PROCEDURES. 3 cr.** The study of specialized processes and techniques involved in individual and family systems approaches and practices. Designed as a post-practicum experience, the course involves laboratory activity and practice to refine specialized procedures. Prerequisite: 510 or permission of instructor. (Same as Marriage and Family Therapy 665.)
- 666. ADVANCED THEORY. 3 cr.** An in-depth study of counseling and systems theories and supportive research including practical application of techniques used in individual and family therapy. (Same as Marriage and Family Therapy 666.)
- 667. GROUP COUNSELING. 3 cr.** An examination of the theories, processes, and evaluative methods of group counseling. Group supervision and group participation required. Grades of CR (Credit) or NC (No Credit) will be awarded. Prerequisites: 505, Counseling/Marriage and Family Therapy 510. (Counseling, Marriage and Family Therapy, and Substance Abuse Counseling majors only or permission of department head.)
- 668. SEMINAR. 3 cr. Maximum, 9 cr.** Advanced study of selected topics.
- 670. INTERNSHIP. 3-12 cr.** Supervised work experience in clinics, schools, colleges, or other agencies engaged in professional counseling and therapy services. Grades of CR (Credit) or NC (No Credit) will be awarded. This course, when offered in the summer, will be offered as a ten-week course. Prerequisite: Approval of department head. (Counseling majors only or permission of department head.)
- 687. SUPERVISION. 3 cr.** In-depth examination of the major models of clinical supervision, review of the supervisory relationship process, and the procedural, ethical, and legal responsibilities associated with supervision.

- 670. INTERNSHIP. 3-12 cr.** Supervised work experience in clinics, schools, colleges, or other agencies engaged in professional therapy services. Grades of CR (Credit) or NC (No Credit) will be awarded. Prerequisite: 510. (Marriage and Family Therapy majors only or permission of department head.)
- 687. SUPERVISION. 3 cr.** In-depth examination of the major models of clinical supervision, review of the supervisory relationship process, and the procedural, ethical, and legal responsibilities associated with supervision.
- 700. FAMILY SYSTEMS I: EPISTEMOLOGICAL ISSUES IN MARRIAGE AND FAMILY THERAPY. 3 cr.** Study of the paradigm shift represented by the systems/cybernetics/ecological perspective, the constructivist, social constructionist, narrative perspectives, and the implications of these perspectives for society, social policy, assessment, research, and mental health practice.
- 702. FAMILY SYSTEMS II: FOUNDATIONS OF MARRIAGE AND FAMILY THERAPY. 3 cr.** A study of the historical roots, foundation ideas, and philosophical evolution of systemic, cybernetic, and ecological perspectives in individual, marriage and family therapy.
- 710. FAMILY THERAPY I. 3 cr.** Building on the philosophical perspectives of modernism/structuralism and postmodernism/poststructuralism, this course involves intensive study of brief models of marriage and family therapy, including Communications/MRI, Strategic (Haley & Madanes), Systemic (Milan), constructivist, social constructionist, and narrative/language (Andersen, Goolishian & Anderson, deShazer, O'Hanlon, White and Epston).
- 712. FAMILY THERAPY II. 3 cr.** Building on the philosophical perspectives of modernism/structuralism and postmodernism/poststructuralism, this course involves intensive study modernist models of marriage and family therapy. Models to be studied include communications (Satir), Andersof 41.3354 0 po.4ninL.psychomatioginO1in &5 inctivi0 0 po.cpo.4ninL.psychones9es3ly a0ssiop
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direct marriage and family therapy practice with families and larger systems of which family systems are members. It is designed to continue the development of knowledge and skills relative to this focus in the areas of effective client-therapist relationships, analysis of client needs, service delivery issues, agency/organizational dynamics, policy issues, and professional values as each pertains to various systems levels. Prerequisite: 750.

- 761. FAMILY MEDICINE AND MARRIAGE AND FAMILY THERAPY. 3 cr.** Intensive study of a systemic/contextual perspective on the interaction of mind, body, and social context, and the interface between family therapy and family medicine. The role of the psychological, social, family and emotional factors in the discussing and healing processes are a related focus.
- 799. DISSERTATION. 3, 6, 9, 12 cr.** May be repeated for credit. Grades of CR (Credit) or NC (No Credit) will be awarded.

SUBSTANCE ABUSE COUNSELING (SUBA)

For Graduates Only

- 525. SUBSTANCE ABUSE COUNSELING. 3 cr.** A survey of current theories and practices of substance abuse counseling, including etiology, definitions and treatment. A pre-internship practicum course.
- 535. COUNSELING THE CHEMICALLY DEPENDENT FAMILY. 3 cr.** Based upon Family Systems approaches, this course will provide information and experiential techniques for working with chemically dependent families.
- 540. CURRENT ISSUES IN SUBSTANCE ABUSE COUNSELING. 3 cr.** A survey course to examine
761. FABUSE COUNSELING. 3 cr. Tques for woills

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

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

George E. Rice, Professor of Educational Leadership
Ph.D., The University of Mississippi

Dawn T. Hardin, Associate Professor of Educational Leadership
Ph.D., The University of Southern Mississippi

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

Rebecca Sue Watts, Assistant Professor of Education and Director of Educational Research
Ed.D., The University of Louisiana at Monroe

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

Prerequisites: 501 and Educational Foundations 581. Valid Louisiana teaching certificate or

- 436. **EDUCATIONAL DATA PROCESSING. 3 cr.** Principles of electronic data processing in education.
- 439. **FUNDAMENTALS OF STATISTICS IN EDUCATION. 3 cr.** Tools necessary for competence in education statistics. Algebraic, geometric and trigonometric functions; principles of scaling and score transformation; principles of reliability and validity estimation. Prerequisite: For graduate credit, a valid Louisiana teaching certificate or written permission of Certification Coordinator.
- 481. **CONTINUING STUDIES IN EDUCATIONAL FOUNDATIONS. 1-3 cr.** Various topics in educational foundations including educational evaluation, media and technology. Credit may not be applied toward a degree. May be repeated. Grade of CR (Credit) or NC (No Credit) will be awarded.
- 491. **DIRECTED STUDY. 1-6 cr.** Investigative study on selected problems by students with particular needs.

For Graduates Only

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

and methodologies for distance/on-line instruction and student support. Prerequisites: Educational Foundations 525.

- 654. HISTORY OF AMERICAN EDUCATION. 3 cr.** Development of elementary, secondary, and higher education in the United States from the Colonial period to the present. Sum
- 680. INSTRUCTIONAL TECHNOLOGY RESEARCH, EVALUATION, AND ASSESSMENT. 3 cr.** Identification and application of instructional and technology-related research, the psychology of learning, and instructional design principles guiding the use of computers and related technologies in instructional settings. Prerequisites: Educational Foundations 555, 581.
- 681. HISTORY AND PHILOSOPHY OF AMERICAN HIGHER EDUCATION. 3 cr.** The origin and development of colleges in the United States.
- 691. ADVANCED EDUCATION STATISTICS. 3 cr.** Parametric and non-parametric inferential statistics; analysis of variance, covariance, partial and multiple, correlation and special techniques of correlation with computer programming and application. Prerequisite: 539.
- 692. RESEARCH SEMINAR. 3 cr.** An integration of research theory and techniques, including computer usage, measurement theory and statistical design. Emphasizes development of hypotheses, principles of research design, and development of the research proposal. Prerequisite: 539 and 581 or their equivalent. Sp, Sum II.

KINESIOLOGY

College of Education and Human Development

Fant-Ewing Coliseum 39

(318) 342-1305

FACULTY

Luke E. Thomas, Professor of Kinesiology and Dean of the College of Education and Human Development

Ph.D., Louisiana State University

Henry Wilson Campbell, Associate Professor and Head, Department of Kinesiology

Ed.D., University of Southern Mississippi

M. Christopher Washam, Professor of Kinesiology and Director of the Human Performance Laboratory

Ph.D., University of Southern Mississippi

Mark Doherty, Associate Professor of Kinesiology

Ph.D., Ohio University

Kendal P. Honea, Assistant Professor of Kinesiology

Ph.D., University of Mississippi

Lisa Cooper Colvin, Professor of Kinesiology

Ph.D., University of Southern Mississippi

***Betty Mae Fought**, Associate Professor of Kinesiology

M.Ed., Memphis State University

***Murrelyn F. Clark**, Assistant Professor of Kinesiology

M.Ed., Northeast Louisiana University

***James Robertson, Jr.** Assistant Professor of Health Education

Ph.D., Southern Illinois University

***Sara Lewis Sanders**, Assistant Professor of Kinesiology

M.A., Texas Woman's University

***Tommie M. Church**, Instructor of Kinesiology

M.Ed., Northeast Louisiana University

*Associate Member of the Graduate Faculty

DEGREES: M.S. in Exercise Science.

PROGRAM ADMISSION: In addition to the University requirements for admission to the Graduate School at ULM, all applicants must present a combined score of 2200 on a scale which is found by multiplying their total undergraduate grade-point average by the combined Graduate Record Examination General Test score (Verbal plus Quantitative) in order to qualify for "Regular Status." Students scoring between 2100 and 2199 (GRE X GPA) may be admitted on "Conditional Status."

PROGRAM REQUIREMENTS: Undergraduate requirements for a major: 24 semester hours from Exercise Science/Kinesiology related courses including at least 3 semester hours from each of the following areas: exercise physiology, anatomical/biomechanical kinesiology, athletic injuries, zoology, chemistry, physical science/physics. The student will not be allowed to take more than 12 graduate hours until all undergraduate prerequisites

- 512. EXERCISE ELECTROCARDIOGRAPHY. 3 cr.** This course is designed to examine the theory and practice of electrocardiography with emphasis placed on ECG's administered during exercise tests. Prerequisite: Zoology 205 or equivalent.
- 524. EXERCISE SCIENCE PERSPECTIVES FOR SPECIAL POPULATIONS. 3 cr.** An examination of specialized exercise science considerations among various groups, with emphasis given to the elderly, females, children, and other unique populations.
- 530. ADVANCED ANATOMICAL KINESIOLOGY. 3 cr.** Detailed investigation of the anatomical and biomechanical systems responsible for human movement.
- 538. CARDIOVASCULAR PHYSIOLOGY. 3 cr.**

156 THE UNIVERSITY OF LOUISIANA AT MONROE

- 437. PHYSIOLOGY OF EXERCISE. 3 cr.** Acute and chronic physiological changes in response to exercise. Emphasis on the practical application of exercise training for health, fitness, and performance. Prerequisite: Junior standing.
- 438. EXERCISE PHYSIOLOGY LABORATORY. 1 cr.** A laboratory course to accompany KINS 437. Emphasis is given to demonstration of physiological responses to exercise testing, as well as other laboratory procedures unique to exercise science. Prerequisite: Credit for or concurrent enrollment in KINS 437.
- 441. WORKSITE HEALTH PROMOTION PROGRAMMING. 3 cr.** This course is designed to develop knowledge and awareness of the major issues in the field of worksite health promotion programming, as well as to enhance the ability of future practitioners to develop the professional techniques necessary to fulfill wellness programming needs within the corporate fitness/wellness field. Prerequisite: 241 and Junior standing.
- 442. HEALTH AND PHYSICAL EDUCATION PROGRAM DEVELOPMENT. 3 cr.** This course is designed to foster the examination, discussion, and creation of health/physical education program development. Prerequisite: Permission of Instructor.
- 491. DIRECTED STUDY. 1-3 cr. Maximum, 6 cr.** Directed study and/or research in selected areas of Health and Physical Education. A. Health, B. Kinesiology, C. Athletic Injuries, D. Dance, E. Selected Topics. (D. same as Dance 491.) A maximum of six credits may be taken. Prerequisites: Approval of Department Head.

For Graduates Only

- 502. MOTIVATIONAL TEACHING AND COACHING. 3 cr.** Instruction and practice in current methods of motivating students to achieve their optimum level in the academic setting and in athletic competition.
- 505. SUPERVISION. 3 cr.** Supervising procedures in teaching health and physical education; interpretation of evaluative procedures.
- 517. INSTRUCTIONAL STRATEGIES IN PHYSICAL EDUCATION. 3 cr.** Pedagogical methods and psychological approaches to teaching physical education. Sum
- 521. METHODS IN SOCIAL RECREATION. 3 cr.** Leadership, methods, and materials for selected recreational groups.
- 527. MEASUREMENT AND EVALUATION. 3 cr.** Analysis of existing measurements and norms with emphasis on test construction and evaluation.
- 531. FACILITIES AND EQUIPMENT. 3 cr.** Functional planning of physical education facilities and equipment for indoor and outdoor areas.
- 537. ADMINISTRATIVE PROBLEMS. 3 cr.** Practice in solving selected problems in the administration of health and physical education programs.
- 541. ANALYSIS OF TEACHING IN PHYSICAL EDUCATION. 3 cr.** This course is designed to aid physical educators in analyzing and measuring teaching for the purpose of improving instruction.

PSYCHOLOGY

College of Education and Human Development

Strauss Hall 314

(318) 342-1330

FACULTY

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

Ross E. Keiser, Professor of Psychology
Ph.D., Loyola University of Chicago

Veronica Lewis, Professor of Psychology
Ph.D., University of Southern Mississippi

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

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

Mary Ann Goodwyn, Associate Professor of Psychology
Ph.D., University of Washington

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

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

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

Cecil Hutto, Assistant Professor of Psychology
Ph.D., University of Mississippi

***Rick Stevens**, Assistant Professor of Psychology
Ph.D., University of Oklahoma

***Steve Tolson**, Instructor of Psychology
M.S., Northeast Louisiana University

***Mkay Bonner**, Temporary Part-Time Instructor of Psychology
Ph.D., University of Southern Mississippi

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

***Flint Smith**, Temporary Part-time Instructor of Psychology
S.S.P., Northeast Louisiana University

***Pam Smith**, Temporary Part-time Instructor of Psychology
S.S.P., Northeast Louisiana University

*Associate Member of the Graduate Faculty

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

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

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

ACCREDITATION: The Specialist in School Psychology is approved by the National Association of School Psychologists.

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

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

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

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

The Master of Science in Psychology offers specialized tracks in School Psychology, Psychometrics, and Experimental Psychology. Basic core requirements common to all tracks are PSYC 522(3), 523(3), 534(3), 561(3) and 599(6). The Experimental track requires the addition of PSYC 502(3), 531(3), and 12 hrs. of electives for a total of 36 hours. Required courses common to both the School and Psychometric track include PSYC 509(3), 511(3), 515(3), 552(3), and 571(3). An additional required course of PSYC 503(3) is required in the School Psychology track for a total of 36 hours. Courses required for the Psychometric Psychology track in addition to those listed in basic core requirements and those common to both the School and Psychometric tracks include PSYC 508(3), 518(3), and 592(6) for a total of 45 hours.

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

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

Post-master's degree applicants must present a minimum grade-point average of 3.25 on previous graduate work. 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. A400 hours

internship and practicum requirements for the student with previous academic credit for an internship and two years of work experience as a certified school psychologist. The student advisory committee must certify that all requirements for the degree have been completed. The certification must be approved by the Graduate Dean.

Residence Requirements for the Specialist in School Psychology Degree

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

Time Limit for the Specialist in School Psychology Degree

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

Requests for Time Extensions

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

Transfer of Credit

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

COURSES

PSYCHOLOGY (PSYC)

For Undergraduates and Graduates

401. **ABNORMAL. 3 cr.** Nature of mental and emotional disorders with their underlying determinants. Prerequisite: 201.
402. **SOCIAL. 3 cr.** Psychological factors and influences in social behavior; the individual in social situations; the influence on social environment in behavior and development. (Same as Sociology 402.) Prerequisites: 201, Sociology 101.
403. **EXCEPTIONAL CHILDREN AND YOUTH. 3 cr.** Legal definitions and clinical classifications of children and youth who vary from normal (mentally, physically, or emotionally). Emphasis on etiology, identification, and educational service provision in multicultural settings. Prerequisites: 201, 203.
405. **MENTAL RETARDATION. 3 cr.** Recognition, diagnosis, and etiology of the mental retardation. Emphasis on psychological theories, procedures, and application. Prerequisites: 201, 203.
406. **PERSONALITY. 3 cr.** Development, dynamics, and processes in the structure of personality. Prerequisite: 201. Students with prior credit in 427 are not eligible to receive credit in 406.
407. **HISTORY AND SYSTEMS. 3 cr.** The evolution of modern psychology from its historical origins in philosophy and the natural sciences to contemporary systems and theory. Prerequisites: 201 and six hours of psychology above 300.
410. **HEALTH PSYCHOLOGY. 3 cr.** Behavioral factors in physical illness and maintenance of health; including an examination of research issues, behavioral techniques in treatment, intervention and preventative medicine strategies. Prerequisites: 201, Zoology 205.
411. **ADVANCED TOPICS. 3 cr.** A study of theoretical issues in experimental and applied areas of psychology. Prerequisite: Twelve hours of psychology.

- 415. INDUSTRIAL. 3 cr.** Application of psychological principles and techniques to problems of industry, with emphasis on employee selection and placement, merit rating, accident reduction, training, measurements, and improvement of morale. Prerequisite: 201.
- 425. PSYCHOLOGY OF ADULTHOOD AND AGING. 3 cr.** Study of physical, intellectual, personality, social and emotional development during the middle and older years of the life span.
- 427. THEORIES OF PERSONALITY. 3 cr.** Survey of the dominant personality theories. Prerequisite: Nine hours of psychology.
- 439. STATISTICS. 3 cr.** Statistical techniques needed in the study, interpretation, and preparation of educational and psychological research.
- 441. PSYCHOLOGY OF CHILD ABUSE. 3 cr.** Identification, treatment, and prevention of child abuse and neglect.
- 450. EVOLUTIONARY PSYCHOLOGY. 3 cr.**

- 523. RESEARCH METHODS. 3 cr.** Research techniques; collecting, processing, analyzing, and interpreting psychological research. Prerequisites: 315 or 316, and 522. (Formerly 521.)
- 525. SEMINAR IN GENERAL PSYCHOLOGY. 3 cr. Maximum, 6 cr.** Basic conceptual and methodological problems in the study of behavior. Prerequisite: Fifteen hours in psychology.
- 527. SCHOOL PSYCHOLOGY. 3 cr.** Programs, problems, techniques, and ethical considerations of the psychologist in the school. Prerequisite: 509 or 511.
- 528. SEMINAR IN CONTEMPORARY PROBLEMS 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.
- 534. THEORIES OF LEARNING. 3 cr.** Classical theories of learning through the year 1952, and developments giving rise to current theoretical perspectives. Prerequisite: 315 or 407.
- 542. PSYCHOLOGY OF MENTAL RETARDATION. 3 cr.** Studies of the classification, assessment, and treatment of individuals who have mental retardation and developmental disabilities. In addition to didactic presentations and independent use of published research data, students will observe and participate in assessment and intervention strategies at treatment and habilitation facilities. Prerequisites: 509, 515, 552.
- 545. PSYCHOLOGY OF AGING. 3 cr.** The study of intelligence, cognition, memory, health, personality, work, leisure, relationships, and psychopathology during the middle and older years.
- 552. BEHAVIOR MODIFICATION. 3 cr.**

COLLEGE OF HEALTH SCIENCES

ALLIED HEALTH SCIENCES

Caldwell Hall (210)

(318) 342-1622

FACULTY

***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

***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

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

***Beverly Jarrell**, Associate Professor of Dental Hygiene
M.Ed., Temple University

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

***Kathryn Davis**,

Judy A. Fellows, CCC-SLP, Professor of Communicative Disorders and Graduate Coordinator
Ph.D., University of Memphis

***Linda Bryan**, CCC-SLP, Assistant Professor of Communicative Disorders
M.A., Northeast Louisiana University

***Helen B. Huckleberry**, CCC-SLP, Assistant Professor of Communicative Disorders
M.A., Western Michigan University

***Norma O. Johnson**, CCC-SLP, Assistant Professor of Communicative Disorders and Director of Clinical Services
M.A., Northwestern State University

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

DEGREES: M.S. in Communicative Disorders

166 THE UNIVERSITY OF LOUISIANA AT MONROE

- 426. **DIAGNOSIS AND APPRAISAL OF COMMUNICATION DISORDERS. 3 cr.** Instruments, procedures, and report writing skills utilized in diagnosing and reporting speech, language, and hearing disorders. Prerequisite: 213 or Consent of Instructor.
- 427. **DIAGNOSIS AND APPRAISAL OF COMMUNICATION DISORDERS LABORATORY. 1 cr.** A practicum developing the skills to administer, score, and interpret tests of articulation and language. Credit or registration in 426 or Approval of Department Head.
- 428. **ARTICULATION DISORDERS. 3 cr.** Types, causes, symptoms, and therapy for articulatory defects in speech. Credit or registration in 417.
- 429. **VOICE AND FLUENCY DISORDERS. 3 cr.** Types, causes, symptoms and therapy for voice and fluency disorders
- 431. **STUTTERING. 3 cr.** Review of modern theories and therapies of stuttering, nature, causes, diagnosis, and treatment of stuttering.
- 433. **LANGUAGE PATHOLOGY. 3 cr.** Language acquisition, language disorders of reception and expression, and habilitation methodologies in learning. Prerequisite: 152 or Consent of Instructor.
- 435. **CLINICAL PROCEDURES AND OBSERVATIONS. 3 cr.** Provides students with principles of managing communicatively disordered clients with supervised observation of diagnostic and therapy sessions.
- 436. **MANUAL COMMUNICATION. 3 cr.** An introductory course in manual communication of the hearing impaired. Emphasis on drills and exercises to help students acquire a sign vocabulary fluency.
- 445. **CLINICAL COUNSELING. 3 cr.** Issues related to counseling culturally diverse persons with communication disorders and their families. Prerequisite: Permission of Instructor.
- 480. **AUDIOLOGY. 3 cr.** Principles and techniques of auditory testing and the interpretation of hearing tests.
- 485. **AURAL REHABILITATION. 3 cr.** Professional services and procedures facilitating adequate receptive and expressive communication in persons with hearing impairments.
- 490. **NEUROPHYSIOLOGICAL BASES FOR COMMUNICATION. 3 cr.** Provides students with principles of anatomy and physiology of the normal neurological system as related to language and speech systems. Prerequisite: 240.

For Graduates Only

- 505. **RESEARCH IN COMMUNICATIVE DISORDERS. 3 cr.** A quantitative and qualitative study of research which prepares graduate students majoring in communicative disorders to critically read, evaluate and generate research in communicative disorders, including historical, descriptive and experimental processes, statistical and research designs, sampling procedures, collecting and processing research data, and disseminating research.
- 520. **SEMINAR IN ARTICULATION. 3 cr.** A study and comparison of contemporary theories of Distinctive Feature Analyses, Phonological Rule Systems, and Traditional Articulation Developments. Emphasis is on the theories as related to articulation remediation
- 525. **CURRENT TOPICS IN STUTTERING RESEARCH AND REMEDIATION. 3 cr.** Intensive study of research related to theories of disfluent speech and current management of stuttering behaviors.
- 528. **SEMINAR IN COMMUNICATIVE LANGUAGE DISORDERS IN CHILDREN. 3 cr.** Intensive study of research literature in childhood language disorders. Emphasis is on student readings, discussions, analyses, and practical therapeutic application of current language theories.
- 530. **SEMINAR IN SPEECH/LANGUAGE PATHOLOGY: DIAGNOSTICS. 3 cr.** Selected topics and evaluative instruments pertaining to the diagnosis of communicative disorders.
- 542. **SEMINAR IN VOICE DISORDERS. 3 cr.** An advanced study of voice disorders associated with organic laryngeal pathologies, neurologic, disease, and psychogenic disorders.
- 550. **NEUROLOGICAL DISORDERS I-INTRODUCTION AND IDENTIFICATION. 3 cr.** The study of the neuropathologies and communication disorders associated with neurological impairments such as aphasia, apraxia, closed head injury, dysarthria, dysphagia, and right hemisphere impaired.
- 552. **NEUROLOGICAL DISORDERS II-EVALUATION AND MANAGEMENT. 3 cr.** The study of evaluation and management strategies for neurological disorders such as aphasia, apraxia, dysarthria, right hemisphere impaired, closed head injury, and dysphagia. These disorders are introduced in Neurological Disorders I (CODI 550). Prerequisite: 550.
- 560. **SEMINAR IN AUGMENTATIVE/ALTERNATIVE COMMUNICATION FOR PERSONS WITH SEVERE EXPRESSIVE DISORDERS. 3 cr.** Emphasis is upon research applications and clinical demonstrations of augmentative and alternative strategies and techniques for cerebral and neurological disorders as they affect speech production for speaking and non-speaking individuals.

COURSES

NURSING (NURS)

For Undergraduates and Graduates

- 433. NURSING INTERVENTION IN THE CARE OF THE AGED. 3 cr.** A study of the concepts and principles necessary for nursing intervention in the care of the aged. The focus will be on the seven broad areas in the care of the aged that have nursing implications: Aging and Nursing, The Normal Aging Process, Deviations of the Aging Process: Geropsychiatry; Deviations of the Aging Process: Pathophysiology; The Nursing Process; Social Forces and Aging: Implications for Nursing; Research in Aging.
- 435. HEALTH ASSESSMENT AND HEALTH MAINTENANCE OF THE AGING PATIENT. 3 cr.** A study to impart concepts of the nursing processes as they relate to health assessment and health maintenance of the aging person. Principles of history-taking and physical examination and assessment skills are emphasized as they pertain to the aging patient. The focus is directed toward the assessment of physiological, environmental, sociological, and psychological needs in the aging patient.
- 436. PRACTICUM IN HEALTH ASSESSMENT AND HEALTH MAINTENANCE OF THE AGING PATIENT. 3 cr.** A laboratory course designed to apply the concepts of the nursing processes as they relate to the provision of health assessment and health maintenance in the care of the aged. The student is provided an opportunity to elicit and record health histories and to perform physical examinations and health maintenance activities for the aged.
- 438. SPECIAL PROBLEMS IN NURSING. 1-3 cr. Maximum, 6 cr.** Investigative study of special problems by students with particular needs in nursing education, practice, and administration. A. Research; B. Practice; C. Administration; D. Education. Prerequisite: Approval of the Dean, College of Nursing.
- 439. CONTINUED STUDIES IN NURSING. 1-3 cr.**

Benny L. Blaylock, Waste Management Endowed Professor and Head, Department of Toxicology
B.A., B.S., Arkansas Polytechnic College; M.S., Ph.D., University of Arkansas for Medical Sciences

Karen P. Briski, Professor of Pharmacology and Director Graduate Studies and Research in Pharmacy
Ph.D., University of Michigan

A. Michael Crider, Professor of Medicinal Chemistry and Head, Department of Basic Pharmaceutical Sciences
Ph.D., University of Kentucky

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

***Roy C. Parish**, Professor of Clinical Pharmacy Practice
B.S., Pharm.D., University of Florida

Girish V. Shah, Mary E. and Darrell L. Calhoun Chair and Professor of Pharmacology
B.S., M.S., Ph.D., University of Bombay

Paul W. Sylvester, B. J. Robinson Endowed Professor of Pharmacology
Ph.D., Michigan State University

Kevin Baer, Associate Professor of Toxicology
Ph.D., Northeast Louisiana University

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

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

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

***Robert D. Kee**, Associate Professor of Pharmacology and Director of Internal Operations
Ph.D., Purdue University

W. Greg Leader, Associate Professor and Head, Department of Clinical and Administrative Sciences
Pharm.D., University of Kentucky

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

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

Harvey Rappaport, Associate Professor of Pharmacy Administration
Ph.D., University of Mississippi

***Sandra G. Blake**, Assistant Professor of Clinical Pharmacy Practice
Ph.D., Northeast Louisiana University

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

Joseph B. Feldhaus, Assistant Professor of Pharmacy Administration
Ph.D., University of Mississippi

William M. Kolling, Assistant Professor of Pharmaceutics
Ph.D., University of Iowa

170 THE UNIVERSITY OF LOUISIANA AT MONROE

Les a W. Lawrence, Assistant Professor of Pharmacy Administration
Ph.D., Northeast Louisiana University

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

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

***Bobby Joe Payne**, Adjunct Professor of Toxicology
Ph.D., University of Minnesota

Barry S. McIntyre, Adjunct Associate Professor Pharmacology
Ph.D., Washington State University

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

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

Daniel L. Halberg, Adjunct Associate Professor of Pharmacy Administration
Ph.D., University of Florida

***Edward Lock**, Senior Scientist (Professor Equivalent)
Ph.D., Council for National and Academic Awards

*Associate Member of the Graduate Faculty

DEGREES: M.S. in Pharmaceutical Sciences
Ph.D. in Pharmacy

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

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

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

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

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

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

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

PROGRAM REQUIREMENTS (M.S.): Requirements for a major: A minimum of 30 semester hours above the baccalaureate degree. Of the minimum 30 graduate hours, no more than three hours of credit will be applied for seminars and directed study credit on

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 must submit the dissertation to the faculty advisor for review and approval.

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minimum residence requirements. A portion of the general examination will be devoted to the testing of the student's knowledge of the courses involved in transfer credit.

Time Limit for the Doctor of Philosophy Degree

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

Requests for Time Extensions

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

COURSES

PHARMACY (PHAR)

- 454. LAW. 3 cr.** Local, state and federal laws, rules and regulations relating to the practice of Pharmacy. Prerequisite: Second Year Pharmacy.
- 467. PESTICIDES. 2 cr.** Chemicals and drugs which have important application as insecticides, herbicides, fungicides, and rodenticides. Prerequisite: 413.
- 479. NUCLEAR PHARMACY. 2 cr.** Handling and storage of radioisotopes and their application to pharmacy. The official radiopharmaceuticals and non-official radiopharmaceuticals of merit employed in therapy will be considered. Prerequisite: Second year pharmacy.
- 489. INTRODUCTORY TOXICOLOGY. 3 cr.** Survey of the occurrence, properties and harmful effects of natural and man-made toxic substances in personal, occupational and global environments. Prerequisites: Credit or registration in Zoology 311, 313, and Chemistry 304.
- 496. PHARMACEUTICAL LEGISLATION. 3 cr.** Historical development of pharmaceutical law and its effect on the practice of pharmacy. Prerequisite: 454.

For Graduates Only

- 500. MOLECULAR STRUCTURE AND FUNCTION OF PROTEINS. 3 cr.** This course is designed to introduce graduate students to basic concepts and techniques in the study of protein structure and function. Course coverage will include structural determinants, relationship of structure to function, thermodynamics of protein interactions, protein/ligand interactions, kinetics, transition state theory, enzyme mechanisms and protein purification techniques.
- 502. PRODUCT DEVELOPMENT. 4 cr.** Theoretical and practical aspects involved in the formulation of a pharmaceutical; emphasis on research techniques employed in developing an acceptable medicinal product. Two hours lecture and six hours laboratory. Prerequisites: 431, 432.
- 513. PHARMACOKINETICS. 3 cr.** A quantitative treatment of the dynamics of drug absorption, distribution, metabolism, and excretion, including the development of mathematical models for

- 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.** Current developments in pharmaceutical disciplines. Applicable to all disciplines. Attendance required for every graduate student each semester. Not more than 2 cr. 3TiU1pappl Tw -.0241 Tw [(t46.)-556(H05CEDPTS I7 CARE)3PHARMACEUTXICOLOA.

176 THE UNIVERSITY OF LOUISIANA AT MONROE

- 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.

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.

DOCTOR OF PHARMACY

School of Pharmacy

Sugar Hall 151

(318) 342-1600

FACULTY

William M. Bourn, Professor of Pharmacology and Dean of Health Sciences
Ph.D., University of Arizona

Benny L. Blaylock, Waste Management Endowed Professor and Head, Department of Toxicology
B.A., B.S., Arkansas Polytechnic College; M.S., Ph.D., University of Arkansas for Medical
Sciences

Karen P. Briski, Professor of Pharmacology and Director, Research and Graduate Studies
in Pharmacy
B.S., Albright College; M.S., Ph.D., University of Michigan

A. Michael Crider, Professor of Medicinal Chemistry and Head, Department of Basic
Pharmaceutical Sciences
B.S., Murray State University; Ph.D., University of Kentucky

Harihara M. Mehendale, Professor of Toxicology, Director, Louisiana Institute of
Toxicology and Kitty DeGree Chair
B.S., Kamataka University; M.S., Ph.D., North Carolina State University

Roy Parish,

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

180 THE UNIVERSITY OF LOUISIANA AT MONROE

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

Mark L. Ryan, Instructor of Pharmacy and Director, Louisiana Poison and Drug
Information Center
B.S., The University of Louisiana at Monroe

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

ADJUNCT FACULTY

Joan Blondin, Adjunct Professor of Clinical Pharmacy
M.D., Louisiana State University - New Orleans

Janet Barham Schmitt, Adjunct Professor of Clinical Pharmacy Practice
Pharm.D., Idaho State University

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

David E. Thomas, Adjunct Associate Professor of Pharmacy Practice
M.D., Ph.D., Louisiana State University

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

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

Daniel L. Halberg, Adjunct Assistant Professor of Pharmacy Administration
B.S., Ph.D., University of Florida

James Thomas Hennigan, Adjunct Assistant Professor of Clinical Pharmacy Practice
B.S., Louisiana State University; B.S., The University of Louisiana at Monroe; Pharm.D.,
University of Illinois

Bhash M. Parasuraman, Adjunct Assistant Professor of Pharmacy Administration
Ph.D., The University of Louisiana at Monroe

Thomas P. Driscoll, Adjunct Clinical Assistant Professor of Pharmacy
B.S., Pharm.D., St. John's University

Robert G. Aucoin, Adjunct Instructor of Clinical Pharmacy Practice
B.S., Northeast Louisiana University

Judith Blalock, Adjunct Instructor of Clinical Pharmacy
Pharm.D., University of Arkansas

Jennifer Bolding, Adjunct Instructor of Clinical Pharmacy
Pharm.D., University of Arkansas

Kimberly Freeman Brown, Adjunct Instructor of Clinical Pharmacy
B.S., The University of Louisiana at Monroe

Drury Bynum, Adjunct Instructor of Pharmacy
B.S., M..B.A., The University of Louisiana at Monroe

Mary L. Caldwell, Adjunct Pharmacy Instructor
M.Ed., The University of Louisiana at Monroe

John Cazaes, Adjunct Instructor of Pharmacy Practice
B.S., The University of Louisiana at Monroe; Pharm.D., Xavier University of Louisiana

Michael Cooper, Adjunct Instructor of Clinical Pharmacy Practice
B.S., The University of Louisiana at Monroe

May Denstedt, Adjunct Instructor of Clinical Pharmacy Practice
B.S., Xavier University of Louisiana

Steven Fowler, Adjunct Instructor of Clinical Pharmacy Practice
B.A., The University of Louisiana at Monroe; M.Div., M.R.E., D.Min., Southwestern Baptist
Theological Seminary

Rowena A. Livingston, Adjunct Instructor of Pharmacy Practice
B.S., College of Charleston; B.S., Pharm.D., Medical University of South Carolina

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

Anjali A. Namjoshi, Adjunct Instructor of Pharmacy Practice
Pharm.D., Xavier University of Louisiana

Mark S. Nelson, Adjunct Instructor of Pharmacy Practice
B.S., Louisiana State University at Shreveport, B.S., The University of Louisiana at
Monroe

Peter Ng, Adjunct Instructor of Clinical Pharmacy Practice
B.S., The University of Louisiana at Monroe

Roger B. Olinde, Adjunct Instructor of Pharmacy Practice
B.S., The University of Louisiana of Monroe, Pharm.D., University of Mississippi

Walter Pierron, Adjunct Instructor of Clinical Pharmacy Practice
B.S., University of Mississippi

Tarolyn J. Snead, Adjunct Instructor of Pharmacy Practice
Pharm.D., University of Texas

Stephen P. Stephen, Adjunct Instructor of Clinical Pharmacy
M.S., University of Texas at Austin

Cathy Whipple, Adjunct Instructor of Clinical Pharmacy Practice
B.S., The University of Louisiana at Monroe; Nuclear Pharmacy Certificate, Purdue University

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 bio-medical/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,

occur. Students admitted on a professional transfer basis to a class in progress shall be subject to all requirements and restrictions applicable to other students in the class.

Any person having been convicted of a drug related felony will not be admitted to the professional program of the School of Pharmacy. Any student who has been admitted to the professional program and subsequently convicted of a drug related felony will be dismissed.

- 413. PHARMACOLOGY III. 4 cr.** Continuation of 412 with emphasis on the cardiovascular, renal, and respiratory systems. Prerequisites: 407, 412, 436.
- 414. PHARMACOLOGY IV. 4 cr.** Continuation of 413 with emphasis on the gastrointestinal system, endocrine system, reproductive system, and chemotherapeutic agents. Prerequisites: 413; credit or registration in 418.
- 418. CHEMOTHERAPEUTIC AGENTS. 2 cr.** A study of the chemistry, therapeutic classification, mechanisms of action, toxicity, and spectra of agents currently used in the therapy of infectious and neoplastic diseases. Prerequisites: 408, 412; credit or registration in 409.
- 419. PHARMACBIOTECH. 3 cr.** A study of the application of biotechnology to pharmaceuticals including drugs, diagnostics, and vaccines. Emphasis is placed on the techniques of biotechnology, recombinant proteins and peptides, monoclonal antibodies, and physicochemical properties, and metabolism of genetically engineered biopharmaceuticals. Prerequisite: 408, 409; credit or registration in 414; or approval of Department Head.
- 421. HERBAL REMEDIES. 3 cr.** A study of herbal preparations and other phytomedicinals widely used by the general public as self-selected OTC products for therapeutic or preventive purposes. Emphasis is placed on the need, safety, and efficacy of herbal preparations, and the role of the pharmacist in product selection. Prerequisite: 409; credit or registration in 414.
- 423. MEDICAL IMMUNOLOGY. 2 cr.** Cellular and serum immunology. Antibody structure and function. Types of antigen antibody reactions. Immunosuppression, tolerance and enhancement. Systems mediating immunologic injury and inflammation. Immunogenetics. Prerequisites: 408, 412, 436.
- 424. PHARMACEUTICS IV. 4 cr.** A study of parenterally administered drugs and specialized delivery systems. Three hours lecture and three hours laboratory per week. Prerequisite: 432.
- 425. DRUG INFORMATION RETRIEVAL AND EVALUATION. 3 cr.** Introduction to services and resources used to provide evaluative information and associated professional responsibilities. Prerequisite: First Year Pharmacy Standing and Psychology 439.
- 426. AGING AND DRUG USE IN THE ELDERLY. 3 cr.** An examination of normative and pathological aging and their effect on drug use and response in the aged population. Prerequisite: Credit or registration in 414 and 448.
- 427. PHARMACY CARE LAB III. 1 cr.** Continuation of Pharmacy 322 conducted in sequence and in cooperation with other courses in the first semester of the second professional year. Grading will be on a credit, no credit basis. Students receiving a grade of "no credit" must repeat the course. Three hours laboratory experience per week. Prerequisite: Credit or registration in 385, 410, 413, 432, and 435.
- 428. PHARMACY CARE LAB IV. 1 cr.** Continuation of Pharmacy 427 conducted in sequence and in cooperation with other courses in the first semester of the second professional year. Grading will be on a credit, no credit basis. Students receiving a grade of "no credit" must repeat the course. Three hours laboratory experience per week. Prerequisite: Credit or registration in 414, 418, 448, 455, and 475.
- 429. PHARMACY CARE LAB V. 1 cr.** Continuation of Pharmacy 428 conducted in sequence and in cooperation with other courses in the first semester of the second professional year. Grading will be on a credit, no credit basis. Students receiving a grade of "no credit" must repeat the course. Three hours laboratory experience per week. Prerequisite: Credit or registration in 449, 471, 472, 473, and 454.
- 432. PHARMACEUTICS III. 3 cr.** The interrelationship between formulation factors and pharmacokinetic aspects of drug absorption, distribution, metabolism, and excretion. Prerequisite: 403.
- 436. PHARMACOLOGY LABORATORY. 1 cr.** A laboratory course to accompany 412. Three hours laboratory. Prerequisite: 411; credit or registration in 412.
- 440. PROFESSIONAL SERVICE ACCESSORIES. 2 cr.** Selection, indications, uses, warnings, maintenance and storage of prescription and non-prescription accessories, durable medical equipment and related items. Prerequisite: Third Year Pharmacy Standing.
- 445. PROFESSIONAL PRACTICE LABORATORY. 1 cr.** Principles and techniques of dispensing extemporaneously prepared and prefabricated products, and relevant aspects of contemporary pharmacy practice. Prerequisites: 432; credit or registration in 454.
- 446. NON-PRESCRIPTION MEDICATIONS AND SELF-CARE. 3 cr.** Selection and use of non-prescription medications for self-treatment of disease or to treat self-limiting disease states. Prerequisite: 385, 410, 413; Credit or registration in 414.
- 451. PHARMACEUTICAL CARE MANAGEMENT. 3 cr.** equipmentgani c pruisite: ThFesterird

- 454. LAW. 3 cr.** Local, state and federal laws, rules and regulations relating to the practice of Pharmacy. Prerequisite: Second Year Pharmacy.
- 455. EVALUATION OF LABORATORY DATA. 2 cr.** The introduction to and application of laboratory procedures used in patient evaluation. This course aims to familiarize students with the fundamentals of interpreting basic clinical laboratory test results. Relying on a background knowledge of physiology, pathophysiology, and pharmacology, students will study the use of common laboratory tests to identify disease, evaluate differential diagnoses of diseases, guide therapeutic decisions, and follow the effectiveness of therapy and guide its course. Prerequisite: Credit or registration in 585.
- 456. RESEARCH METHODOLOGY. 1 cr.** This course introduces the student to the design of hypothesis-testing studies used in clinical drug trials. Common statistical analyses are also taught. Although students who master the material should be able to design studies to answer questions using the scientific method, the purpose is to give students the skills to evaluate published studies in the medical literature. Prerequisite: Third Year Pharmacy Standing.

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INDEX

A

| | |
|---|----------|
| Accounting | |
| courses of instruction | 114 |
| Accreditation (also see individual fields of study) | 12 |
| Adding Courses | 37 |
| Administration | 28 |
| Administration and Supervision | |
| admission requirements (M.Ed.) | 149 |
| program requirements (M.Ed.) | 149 |
| Administration of the Graduate School | 28 |
| Administrative Officers | 194 |
| Admission to Graduate School, general requirements | |
| Doctor of Education | 134 |
| Doctor of Philosophy | 142, 171 |
| Education Specialist | 126 |
| Master's Degree | 40 |
| Administration and Supervision | 149 |
| Communication | 60 |
| Communicative Disorders | 164 |
| Criminal Justice | 71 |
| English | 80 |
| Gerontology | 71 |
| History | 93 |
| Marriage and Family Therapy | 141 |
| Substance Abuse Counseling | 141 |
| Business Administration | 112 |
| Counseling | 140 |
| Music | 102 |
| Biology | 52 |
| Chemistry | 57 |
| Geosciences | 87 |
| Pharmaceutical Sciences | 170 |
| Psychology | 156 |
| Specialist in School | lu08 |

Specialist in School
 Specialist in S.....9w
 Music.....
 Specialist in School.....
 Specialist in Schoo.....

196 THE UNIVERSITY OF LOUISIANA AT MONROE

B

| | |
|---|-----|
| Biology | |
| admission requirements | 53 |
| courses of instruction | 53 |
| minor requirements (M.Ed.) | 53 |
| program requirements (M.S.) | 53 |
| Board of Regents | 191 |
| University of Louisiana System Board of Supervisors | 191 |
| Business | |
| courses of instruction | 115 |
| minor requirements (M.Ed.) | 123 |
| Business Administration | |
| admission requirements | 113 |
| courses of instruction | 114 |
| program requirements (MBA) | 114 |

C

| | |
|--------------------------------|---------|
| Calendar, University | 5 |
| Centers | 18 |
| Certificate | 74 |
| Chemistry | |
| admission requirements | 58 |
| courses of instruction | 59 |
| minor requirements (M.Ed.) | 58 |
| program requirements (M.S.) | 58 |
| Classics | |
| courses of instruction | 85 |
| Clinics | 18 |
| Communication | |
| admission requirements | 61 |
| program requirements (M.A.) | 61 |
| Communicative Disorders | |
| admission requirements | 165 |
| courses of instruction | 165 |
| program requirements (M.S.) | 165 |
| Comprehensive Examinations | 41, 143 |
| Computer Information Systems | |
| courses of instruction | 116 |
| Computer Science | |
| courses of instruction | 66 |
| minor requirements (M.Ed.) | 66 |
| Councils | |
| Graduate | 28 |
| Research | 29 |
| Counseling | |
| admission requirements (M.Ed.) | 140 |
| courses of instruction | 144 |
| program requirements (M.Ed.) | 141 |
| Course Drop | 38 |
| Course Load | 35 |
| Course Numbering | 35 |
| Credit Hour System | 35 |
| Criminal Justice | |
| admission requirements | 72 |
| courses of instruction | 74 |
| program requirements (M.A.) | 72 |
| Curriculum and Instruction | |
| admission requirements (Ed.S.) | 126 |
| admission requirements (Ed.D.) | 135 |
| program requirements (Ed.S.) | 126 |
| program requirements (Ed.D.) | 135 |

D

Dance
 courses of instruction154

Degrees.....30

Dissertation43

 Doctor of Education136

 Doctor of Philosophy.....143, 171

Doctor of Education Degree
 admission requirements.....135
 eligibility to remain136
 policies and procedures137
 program of study.....135
 residence requirements138
 time limit.....138
 transfer of credit.....138

Doctor of Philosophy Degree
 general requirements142, 171
 program of study.....143, 172
 residence requirements143, 172
 time limit.....144, 173
 time extensions144, 173
 transfer of credit.....144, 172

Dropping courses.....37

E

Early Childhood Education Alternative Certification
 admission requirements (M.A.T.)124
 courses of instruction127
 program requirements (M.A.T.)124

Economics
 courses of instruction116

Educational Administration and Supervision
 courses of instruction150

Educational Foundations
 courses of instruction.....151

Education Specialist Degree
 admission126
 program of study126
 requirements126
 residence requirements127
 time limit.....127
 time extensions127
 transfer of credit.....127

Educational Leadership
 admission requirements (Ed.D.)135
 program requirements (Ed.D.)136

Elementary Education
 admission requirements (M.Ed.).....123
 courses of instruction.....129
 program requirements (M.Ed.).....123

Elementary Education Alternative Education
 admission requirements (M.A.T.)124
 courses of instruction127
 program requirements (M.A.T.).....124

Eligibility to remain in Graduate School34

English
 admission requirements.....81
 courses of instruction81
 minor requirements (M.Ed.)81
 program requirements (M.A.).....81

Entrepreneurship
 courses of instruction117

Exercise Science
 courses of instruction.....154

198 THE UNIVERSITY OF LOUISIANA AT MONROE

F

| | |
|---|-----|
| Facilities, Physical..... | 17 |
| Faculty and Administrative Emeriti..... | 194 |
| Faculty | |
| associate..... | 29 |
| members..... | 29 |
| Family and Consumer Sciences | |
| courses of instruction..... | 84 |
| minor requirements (M.Ed.)..... | 84 |
| Fees..... | 12 |
| Field Study..... | 43 |
| Fields of Study..... | 47 |
| Finance | |
| courses of instruction..... | 117 |
| Foreign Language Requirement..... | 41 |
| Foreign Languages | |
| minor requirements (M.Ed.)..... | 85 |
| French | |
| courses of instruction..... | 85 |

G

| | |
|---|----|
| Galleries..... | 24 |
| Geography | |
| courses of instruction..... | 88 |
| Geology | |
| courses of instruction..... | 89 |
| minor requirements (M.Ed.)..... | 87 |
| Geosciences | |
| admission requirements..... | 87 |
| courses of instruction..... | 88 |
| program requirements (M.S.)..... | 87 |
| Gerontological Studies | |
| certificate requirements..... | 74 |
| Gerontology | |
| admission requirements..... | 73 |
| courses of instruction..... | 76 |
| program requirements (M.A.)..... | 73 |
| Government | |
| courses of instruction..... | 94 |
| Grading System..... | 35 |
| Graduate Assistantships..... | 44 |
| Graduate Work-Study..... | 45 |
| Graduate Council..... | 28 |
| Graduate Credit | |
| course designation..... | 34 |
| earned in non-degree or provisional admission status..... | 33 |
| for courses designated: for undergraduates and graduates..... | 34 |
| for outstanding ULM seniors..... | 34 |

H

| | |
|---|----|
| History | |
| admission requirements..... | 94 |
| courses of instruction..... | 94 |
| program requirements (M.A.)..... | 94 |
| History of the University..... | 10 |
| Home Economics (See Family and Consumer Sciences) | |
| Home Economics Education (See Family and Consumer Sciences) | |
| Horticulture | |
| courses of instruction..... | 51 |
| Housing accommodations..... | 25 |
| Humanities | |
| courses of instruction..... | 83 |

| | |
|---------------------------------------|----------|
| I | |
| Insurance | |
| courses of instruction | 118 |
| International students..... | 33 |
| K | |
| Kinesiology | |
| courses of instruction | 154 |
| Kinesiology | |
| admission requirements..... | 154 |
| program requirements (M.S.)..... | 154 |
| L | |
| Library | 17 |
| Library Science | |
| courses of instruction | 131 |
| Linguistics | |
| courses of instruction..... | 86 |
| Location of the University..... | 11 |
| Louisiana Education Consortium | |
| courses of instruction | 138 |
| M | |
| Major Professor | |
| Doctor of Education | 137 |
| Doctor of Philosophy..... | 143, 171 |
| Education Specialist..... | 126 |
| Master's Degree..... | 39 |
| Specialist in School Psychology | 158 |
| Management | |
| courses of instruction | 118 |
| Manuscript..... | 43 |
| Marine Science | |
| courses of instruction..... | 57 |
| Marketing | |
| courses of instruction | 118 |
| Marriage and Family Therapy | |
| admission requirements (M.A.)..... | 141 |
| admission requirements (Ph.D.) | 142 |
| courses of instruction..... | 146 |
| program requirements (M.A.)..... | 141 |
| program requirements (Ph.D.)..... | 142 |
| Mass Communications | |
| courses of instruction..... | 62 |
| Master's Degree | |
| Residence requirement..... | 40 |
| Sequence and program of study..... | 39 |
| transfer of credit..... | 40 |
| Mathematics | |
| courses of instruction..... | 68 |
| minor requirements (M.Ed.)..... | 68 |

N

Residence Requirements
 Doctor of Education138
 Doctor of Philosophy.....142, 172
 Education Specialist.....126
 Master's Degree.....40
 Specialist in School Psychology159
 Resignations38

S

Science
 courses of instruction..... 71
 minor requirements (M.Ed.) 69
 Second master's degree34
 Secondary Education
 admission requirements (M.Ed.)123
 program requirements (M.Ed.).....132
 Seniors, graduate credit for34
 Sequence of significant documents, Graduate Degree39
 Social Sciences
 minor requirements (M.Ed.) 94
 Social Work
 courses of instruction78
 Sociology
 courses of instruction78
 Spanish
 courses of instruction86
 Special Education
 admission requirements123
 courses of instruction132
 program requirements (M.Ed.).....124
 Special Education Alternative Education
 admission requirements (M.A.T.)125
 courses of instruction131
 program requirements (M.A.T.)125
 Specialist in School Psychology
 admission158
 program of study158
 requirements for degree.....158
 residence requirements159
 time limit.....159
 time extensions159
 transfer of credit159
 Speech Communication
 courses of instruction63
 minor requirements (M.Ed.)61
 Speech/Language/Hearing (See Communicative Disorders)
 Substance Abuse Counseling
 admission requirements141
 courses of instruction144
 program requirements (M.A.)141

T

Theatre
 courses of instruction64
 Thesis.....43
 Time extensions
 Doctor of Education138
 Doctor of Philosophy.....144, 173
 Education Specialist.....126
 Master's Degree.....41
 Specialist in School Psychology159

202 THE UNIVERSITY OF LOUISIANA AT MONROE

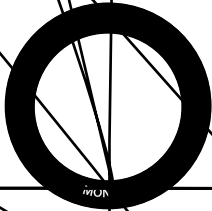
| | |
|---------------------------------------|----------|
| Time limit | |
| Doctor of Education | 138 |
| Doctor of Philosophy..... | 144, 173 |
| Education Specialist..... | 126 |
| Master's Degree..... | 41 |
| Specialist in School Psychology | 159 |
| Transfer of Credit | |
| Doctor of Education | 138 |
| Doctor of Philosophy..... | 143, 172 |
| Education Specialist..... | 126 |
| Master's Degree..... | 40 |
| Specialist in School Psychology | 159 |
| Transfer students | 33 |

Z

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