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The University of Mississippi 2005-06 Undergraduate Catalog

157th year/153rd session

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The policies and regulations of the *2005-06 Undergraduate Catalog* take effect with the registration procedures for the spring 2005 semester. Policies regarding changes in the University's curricula are discussed in the chapter on Academic Regulations.

This catalog is not a contract, but rather a guide for the convenience of students. The University of Mississippi reserves the right to 1) change or withdraw courses; 2) to change the fees, rules, and schedules for admission, registration, instruction, and graduation; and 3) to change other regulations affecting the student body at any time. Implicit in each student's enrollment with the University is an agreement to comply with University rules and regulations, which the University may modify to exercise properly its education responsibility.

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ACADEMIC STRUCTURE and DEGREES OFFERED

Undergraduate Divisions

COLLEGE OF LIBERAL ARTS

Department	Major	Degree
African American Studies	African American Studies	BA
Art	Art	BA, BFA
	Art History	BA
Biology	Biological Science	BA, BS
Chemistry and Biochemistry	Biochemistry (no minor)	BA
	Chemistry	BA, BS
	Forensic Chemistry (no minor)	BS
Classics	Classics	BA
Computer Science	Computer Science	BA
Croft Institute	International Studies	BA
Economics	Economics	BA
English	English	BA
Geology and Geological Engineering	Geology	BS
History	History	BA
Journalism	Journalism	BA
Liberal Arts	Biomedical Sciences (no minor)	BS
	Cyrotechnology (no minor)	BS
	Dental Hygiene (no minor)	BS
	Health Information Management (no minor)	BS
	Liberal Arts (no minor)	BA
	Medical Technology (no minor)	BS
	Nursing (no minor)	BS
	Occupational Therapy (no minor)	BS
Linguistics	Linguistics	BA
Mathematics	Mathematics	BA, BS
Modern Languages	French	BA
	German	BA
	Spanish	BA
Music	Music	BA, BM
Philosophy and Religion	Philosophy	BA
Physics and Astronomy	Physics	BA, BS
Political Science	Political Science	BA
Psychology	Psychology	BA
Sociology and Anthropology	Anthropology	BA
	Sociology	BA
Southern Studies	Southern Studies	BA
Theatre Arts	Theatre	BA, BFA

Minors for the BA Degree (no Liberal Arts major)

Department	Major	Degree
Air Force ROTC/ Aerospace Studies	AirForce ROTC/ Aerospace Studies	
English	Renaissance and Early Modern Studies	
Latin American Studies	Latin American Studies	
Military Science	Military Science	
Modern Languages	German Studies	
Naval Science	Naval Science	
Philosophy and Religion	Religion	
Gender Studies	Gender Studies	
School of Accountancy	Accountancy	
School of Business Administration	Business Administration	
School of Engineering	Engineering	
School of Engineering	Telecommunications	

PATTERSON SCHOOL OF ACCOUNTANCY

Department	Major	Degree
Accountancy	Accountancy	B Accy

SCHOOL OF APPLIED SCIENCES

Department	Major	Degree
Communicative Disorders	Communicative Disorders	BA
Family and Consumer Sciences	Family and Consumer Sciences	BSFCS
Health, Exercise Science and Recreation Management	Exercise Science Park and Recreation Management	BSES BAPRM
Legal Studies	Criminal Justice Paralegal Studies	BSCJ BPS
Social Work	Social Work	BSW

SCHOOL OF BUSINESS ADMINISTRATION

Majors	Degree
Banking and Finance	BBA
Economics	BBA
Insurance and Risk Management	BBA
Managerial Finance	BBA
Real Estate	BBA
Management	BBA
Marketing	BBA
Marketing Communications	BBA
Management Information Systems	BBA

SCHOOL OF EDUCATION

Department	Major	Degree
Curriculum and Instruction	Elementary Education	BAE
	English Education	BAE
	Mathematics Education	BAE
	Modern Language Education	BAE
	Science Education	BAE
	Social Studies Education	BAE
	Special Education	BAE

SCHOOL OF ENGINEERING

Department	Major	Degree
Chemical Engineering	Chemical Engineering	BSChE
	Civil Engineering	BSCE
Computer and Information Science	Computer Science	BSCS
	Electrical Engineering	BSEE
Electrical Engineering	Engineering	BE
	Telecommunications	BE
	Geological Engineering	BSCG
Geological Engineering	Geological Engineering	BSCG
Mechanical Engineering	Mechanical Engineering	BSME

SCHOOL OF PHARMACY

Department	Major	Degree
Pharmacy	Pharmaceutical Sciences	BS
Pharmacy	Pharmacy	PharmD

Special Areas and Emphases

Art

Ceramics
Graphic Design/Illustration
Painting
Printmaking
Sculpture

Business Administration

Behavioral Management
Broadcast-Marketing Communications
Corporate Finance
Human Resource Management
International Finance
Investment Analysis
Petroleum Land Management
Print-Marketing Communications
Production-Operations Management

Communicative Disorders

Audiology
Speech-Language Pathology

Chemistry

Teaching Certification

Classics

Greek
Latin
Classical Civilization

Education

Elementary Education
Secondary Education
Special Education

English

Renaissance and Early Modern Studies

Family and Consumer Sciences

Dietetics and Nutrition
Hospitality Management
Human Development
Merchandising

Health Professions

Pre-clinical Laboratory Science
Pre-cytotechnology
Pre-dentistry
Pre-dental Hygiene
Pre-health Information Management
Pre-medicine
Pre-nursing
Pre-occupational Therapy
Pre-optometry
Pre-physical Therapy
Pre-veterinary Medicine

Journalism

Magazine Service Journalism
Public Relations

Mathematics

Teaching Certification

Music

Music Education
Music Performance
Music Theory

Pharmaceutical Sciences

Drug Discovery and Development (Pharmacognosy)
Marketing/Management
Medicinal Chemistry
Pharmaceutics
Pharmacology/Toxicology

Pharmacy

Philosophy

Philosophy and Religion

Physics

Teaching Certification

Theatre

Acting
Design/Theatre Technology
Musical Theatre

Graduate and Professional Schools

THE GRADUATE SCHOOL

Divisions	Areas of Study	Degrees
Liberal Arts	Anthropology	MA
	Art	MFA
	Art Education	MA
	Art History	MA
	Biological Science	MS, PhD
	Chemistry	MS, DA, PhD
	Classics	MA
	Economics	MA, Ph.D.
	English	MA, MFA, PhD
	French	MA
	German	MA
	History	MA, PhD
	Journalism	MA
	Mathematics	MA, MS, PhD
	Music	MM, DA
	Philosophy	MA
	Physics	MA, MS, PhD
	Political Science	MA, PhD
	Psychology	MA, PhD
	Sociology	MA, MSS
	Southern Studies	MA
	Spanish	MA
	Accountancy	Accountancy
Taxation		M.Tax.
Applied Sciences	Communicative Disorders	MS
	Exercise Science	MS, PhD
	Health Promotion	MS
	Park and Recreation Management	MA

Business

Administration	Business Administration	MBA	
	Business Administration	PhD	
	Finance		
	Management		
Education	MIS/POM		
	Marketing		
	Curriculum and Instruction	MA, MEd, EdS, PhD	
	Education	EdD, PhD	
	Educational Leadership	MEd, EdS, PhD	
	Counselor Education	MEd, EdS, PhD	
	Higher Education/Student Personnel	MA	
	Engineering Pharmacy	Engineering Science	MS, PhD
		Medicinal Chemistry	PhD
		Pharmaceutical Sciences	MS
Pharmaceutics		PhD	
	Pharmacognosy	PhD	
	Pharmacology	PhD	
	Pharmacy Administration	PhD	

THE SCHOOL OF LAW

Division	Major	Degrees
Law	Law	JD, JD/MBA

Overview of The University of Mississippi

THE PURPOSE OF THE UNIVERSITY

A university is a community of men and women devoted to the preservation, increase, and application of knowledge. As a major research university, The University of Mississippi is dedicated to the service of Mississippi and the nation through the threefold functions of **teaching, research, and public service.**

Teaching • Undergraduate students develop intellectual keenness and imagination, clarify spiritual and ethical values, and acquire the knowledge and skills necessary for an effective life of service in the complex society of our time. Advanced students lay the scholarly foundations for the practice of their professions, while others prepare to carry on the traditions of learning as scholars and scientists.

Research • A true university is not content merely to preserve and transmit the fund of knowledge and ideas received from the past. Its faculty and students together push forward the frontiers of knowledge in all branches of the sciences and arts. They study and evaluate the great ideas and beliefs of world civilization. No significant problem of the state or nation is remote from the University's concern.

Public Service • The knowledge and research skills of the faculty and staff are available, on the campus and throughout the state, to aid public officials and private citizens in solving their practical problems.

Barnard's Vision for the University • In 1858 Chancellor Frederick A.P. Barnard laid before the board of trustees and the people of the state a plan for The University of Mississippi that still embodies its principal concerns and valid goals. He proposed "a university in the largest acceptation of that term . . . an institution in which the highest learning is taught in every walk of human knowledge." Its purpose was "the high and noble work of training immortal minds to vigor and capacitating them for usefulness." Barnard saw that "the University is destined to act, invisibly it may be sometimes, but always powerfully, in every county, district, and neighborhood in the State. [Only] a fraction of the people will receive their personal instruction within the University halls, yet all, without exception, will be partakers of the benefits of which the University is the fountainhead and central source." Its destiny is "to do more than any other single cause to stamp upon the intellectual character of Mississippi the impress it is to wear, to determine the respectability of the State in the eyes of mankind, to stimulate her industry, to multiply the sources of her material wealth, to elevate and purify the tastes of her people, to enlarge their capacities for happiness, and to enable them to fill up those capacities by supplying them with continually growing means of rational enjoyment."

Intellectual Freedom • The University of Mississippi is a community of teachers and students bound together by a common love for learning and by their cooperative efforts to preserve and increase our intellectual heritage. Good learning increases, minds are creative, and knowledge is turned to useful purposes when men and women are free to question, free to seek answers, free to learn, and free to teach. The University therefore supports and defends intellectual and academic freedom.

HISTORY OF THE UNIVERSITY

The Beginning • The people of a small northern Mississippi town named their town “Oxford” in hopes of attracting a university, and on February 20, 1840, the Mississippi legislature chose Oxford as the site for its new university. The University of Mississippi was chartered on February 24, 1844, and began its first session on November 6, 1848, with a four-member faculty offering a liberal arts curriculum to 80 students. While continually strengthening the College of Liberal Arts, the trustees and the faculty also sought to broaden the work of the institution by the creation of professional and specialized schools so as to build it into a university in fact as well as in name. Thus, the School of Law was opened in 1854 during the presidency of Augustus Baldwin Longstreet. It was only the fourth state-supported law school in the nation. Longstreet’s successor, Frederick A.P. Barnard, who later achieved further renown as president of Columbia University, initiated a strong program of scientific instruction and research that was terminated six years into his tenure by the advent of the Civil War. The entire student body joined the Confederate army as the “University Greys”; most were killed or wounded, and none graduated.

Growth and Expansion • Re-opening in the fall of 1865 after the suspension of classes for four years of war, the University resumed its growth and provided education for many Confederate veterans who sought instruction. Coeducation came with the admission of 11 women students in 1882, and the first woman, Sarah Isom, was added to the faculty in 1885. The University took its nickname “Ole Miss” from the title of the student yearbook of 1898.

Expansion was particularly notable under Chancellor Robert Burwell Fulton: The first summer session was held in 1893, the School of Engineering was established in 1900, and the schools of Education and Medicine were opened in 1903. Subsequently, the School of Pharmacy was created in 1908, the School of Business Administration in 1917, and the Graduate School in 1927. The School of Medicine moved to Jackson in 1955 to become the nucleus of The University of Mississippi Medical Center; the School of Nursing was established in 1958. Medical Center surgeons performed the world’s first human lung and heart transplants in the 1960s.

Modern Growth • Like other southern institutions that integrated in the 1960s, the University experienced turbulent times when James Meredith, the first African-American student, was admitted in 1962. The University now has evolved into a diverse community of students and scholars. Students from every background in Mississippi, across the United States, and around the world are welcomed to Ole Miss to pursue a quality higher education.

Over the past several decades, the University has expanded its services to the people of the state by enlarging its research facilities, developing its program of graduate studies, strengthening its off-campus services, and enhancing the quality and breadth of its fundamental liberal arts education. The School of Health Related Professions was established in 1972 and the School of Dentistry in 1973. The Center for the Study of Southern Culture was created in 1977. The School of Accountancy and the Sarah Isom Center for Women were established in 1979, and the McDonnell-Barksdale Honors College was created in 1996.

The University now has more than 10,000 students enrolled on the Oxford campus. Its faculty, staff, and students are pushing forward the frontiers of knowledge, imagination, and expertise necessary for a productive life in today's world. It is a center for Faulkner studies, offering a fine collection of the Nobel Prize winner's work and maintaining his Rowan Oak home as a literary shrine. The University is proud to have produced 24 Rhodes Scholars; only six public universities in the nation have produced more.

Chief Executive Officers • From its establishment in 1848 to November 21, 1859, the chief executive officers of the University were designated "president." Then, at the instigation of President Barnard, the title was changed to "chancellor." On July 27, 1886, the title of chancellor was abolished, and the head of the institution was known as "chairman of the faculty." The title of "chancellor" was restored August 6, 1889. The following have served as the chief executive officers of the University:

GEORGE FREDRICK HOLMES, LL.D., president July 1848-March 1849
 ALBERT T. BLEDSOE, acting president March-July 1849
 AUGUSTUS B. LONGSTREET, D.D., LL.B., president July 1849-July 1856
 FREDERICK A.P. BARNARD, D.D., LL.D., president August 1856-November 1859;
 chancellor November 1859-October 1861
 WILLIAM D. MOORE, acting chancellor June-September 1860
 JOHN NEWTON WADDEL, D.D., LL.D., chancellor August 1865-July 1874
 JOHN J. WHEAT, acting chancellor July-October 1874
 GENERAL ALEXANDER P. STEWART, chancellor October 1874-July 1886
 EDWARD MAYES, LL.D., S.C., chairman of the faculty July 1886-August 1889;
 chancellor August 1889-December 1891
 ROBERT BURWELL FULTON, A.M., LL.D., acting chancellor December 1891-June
 1892; chancellor June 1892-June 1906
 ALFRED HUME, D.Sc., acting chancellor June 1906-June 1907
 ANDREW ARMSTRONG KINCANNON, LL.D., chancellor June 1907-June 1914
 JOSEPH NEELY POWERS, LL.D., chancellor June 1914-July 1924
 ALFRED HUME, D.Sc., LL.D., chancellor June 1924-June 1930
 JOSEPH NEELY POWERS, LL.D., chancellor June 1930-August 1932
 CHRISTOPHER LONGEST, Ph.D., acting chancellor August 1930
 ALFRED HUME, D.Sc., LL.D., chancellor September 1932-June 1935
 ALFRED BENJAMIN BUTTS, LL.B., Ph.D., chancellor July 1935-June 30, 1946
 ALFRED HUME, D.Sc., LL.D., chancellor emeritus and acting chancellor July 1942-
 December 1943; July 1-14, 1946
 JOHN DAVIS WILLIAMS, Ed.D., LL.D., chancellor July 15, 1946-January 31, 1968
 PORTER LEE FORTUNE, JR., B.A., M.A., Ph.D., chancellor February 1, 1968-April
 2, 1984
 R. GERALD TURNER, A.A., B.S., M.A., Ph.D., chancellor April 2, 1984-May 31,
 1995
 GERALD W. WALTON, A.A., B.S., M.A., Ph.D., interim chancellor June 1-30, 1995
 ROBERT C. KHAYAT, B.A.E., J.D., LL.M., chancellor July 1, 1995-present

ADMINISTRATION OF THE UNIVERSITY

Administration

Dr. Robert C. Khayat, chancellor • 123 Lyceum • (662) 915-7111 • chancllr@olemiss.edu

The chancellor is responsible to the Board of Trustees of State Institutions of Higher Learning for the operation of the entire University of Mississippi system. The administration of the Oxford campus is carried out by the provost and vice chancellor for academic affairs, the vice chancellor for administration and finance, the vice chancellor for student life, the vice chancellor for University relations, and certain other administrators with University-wide responsibilities. Academic programs are the responsibility of the provost and vice chancellor for academic affairs, who oversees the work of the deans of the College of Liberal Arts and the professional schools, the vice chancellor for research, the dean of the Graduate School, the dean of libraries, and directors of other academic programs. The administration of the Jackson campus is carried out through the vice chancellor for health affairs, to whom the deans of the various schools and the head of the University hospital all report.

Registrar

Dr. Charlotte Fant, registrar • 104 Martindale Center • (662) 915-7792 • cfant@olemiss.edu

Responsibilities of the Office of the Registrar include registration of students for classes, recording of class grades on official University records, maintaining and supplying transcripts of students' academic work, and processing course withdrawals.

Bursar

Mr. Sam Thomas, bursar • 202 Martindale • (800) 891-4596 • bursar@olemiss.edu

Responsibilities of the Office of the Bursar include the collection, custody, and disbursement of funds for the University. Personal checks, not to exceed \$50, may be cashed at the Bursar's Office for a small service fee.

THE UNDERGRADUATE COUNCIL

The Undergraduate Council is comprised of faculty representing the college, the schools, and the library; a student representative; and nonvoting representatives from the Registrar's Office, the Division of Outreach and Continuing Education, and Information Technologies. The council approves changes in undergraduate courses and programs, and recommends policy to the chancellor on a wide range of undergraduate academic matters and activities.

THE OXFORD CAMPUS

Locale • Situated on rolling land at an altitude of 500 feet, the University's Oxford campus is noted for its natural beauty. With its elms, oaks, magnolias, poplars, redbuds, and dogwoods, the campus has the appearance of a well-kept park. From the original one-square-mile area, the campus has been expanded in recent years to the present total of 2,500 acres.

The Buildings • Most of the University buildings are Georgian, modified Georgian, or contemporary in architectural design. Two of the three surviving antebellum buildings are Greek Revival in design. The buildings are listed in the chronological order of their construction.

THE LYCEUM BUILDING. Begun July 14, 1846, and completed in 1848, the Lyceum is of stately Ionic Greek Revival design. Its architect was William Nichols. The building was lengthened in 1858, two flanking wings added in 1904, and the west facade in 1923. The entire building was renovated from 1998-2000. The sole survivor of the five original buildings, it has remained the principal administration building.

THE OLD CHAPEL. Built in 1853, the Old Chapel, often called the "Y" from the period during which it housed the Young Men's and Young Women's Christian Associations, served for many years as a center for certain student activities. The entire building was renovated from 1999-2000 and currently houses the Croft Institute for International Studies.

BARNARD OBSERVATORY. Begun in 1857 and completed in 1859 during the administration of Chancellor Barnard, the building is now listed on the National Register of Historic Places. Barnard Observatory was designed to house the largest telescope in the world and to provide unrivaled quarters for the Department of Physics and Astronomy, which was housed in the west wing until 1939. The east wing, which served as the chancellor's residence until 1971, became headquarters for the Center for the Study of Southern Culture in 1979. The entire building was renovated from 1990-92 for the Center for the Study of Southern Culture.

JAMES ALEXANDER VENTRESS HALL. Named for the author of the bill to charter the University and constructed in 1889 as the University Library, this building housed the School of Law from 1911 to 1930. It was occupied by the State Geological Survey from 1929 to 1963 and then was assigned to the Department of Geology. Following renovations in 1997, it became the home of the College of Liberal Arts.

THE OLD POWER PLANT. Constructed in 1908, the building continues to house fire alarms and bell systems, the radio dispatcher's office, and the Office of Environmental Safety. William Faulkner drafted *As I Lay Dying* in this building in 1929.

W. ALTON BRYANT HALL. Renamed in 1984 in honor of Vice Chancellor Emeritus Bryant, the old library building, now Bryant Hall, was constructed in 1911. In 1952 it was occupied by the departments of Art and Theatre Arts, and now is undergoing renovations to house Library Special Collections.

PEABODY HALL. Dating from 1913, Peabody is now occupied by the Department of Psychology.

GEORGE STREET HOUSE. Completed in 1914 to serve as a residence for Professor Thomas H. Somerville, the building was renovated in 1998 and currently houses administrative offices. George Martin Street served the University in several administrative posts, most notably as director of university relations, from 1946 to 1985.

PUBLIC RELATIONS BUILDING. Constructed in 1919 as a faculty residence, the building housed University Public Relations, but is now being renovated.

GEORGE HALL. Built in 1920 and rebuilt in 1949 as a residence for men, George Hall was converted in 1973 to provide housing for the Department of Communicative Disorders and the Speech and Hearing Center. J.P.Z. George, for whom the building was named, served as a U.S. senator from 1881-1897. The entire building underwent extensive renovation in 1991-92.

DUPREE HALL. Built in 1920 as a men's residence hall, the building, named for faculty member John Greer Dupree, now houses the Department of Political Science and the Public Policy Research Center.

LaBAUVE HALL. This building was constructed in 1920 as a dormitory for male students and was named for Col. Felix LaBauve, a state representative and senator who provided a substantial trust fund to the University. After a 2003-04 renovation, the building now houses the Trent Lott Leadership Institute.

ODOM HALL. Odom Hall is now awaiting renovations. The building was constructed in 1920 as a residence hall for men and was named for John W. Odom, who provided a trust fund for the University.

THE CHEMISTRY AND PHARMACY BUILDING. Dating from 1923 and formerly housing the School of Pharmacy and the Department of Chemistry and Biochemistry, this building, now called the OLD CHEMISTRY BUILDING, is being used by a number of academic, research, and administrative units (including the Graduate and Research Dean's Offices, the Mississippi Mineral Resources Institute, and the departments of Geology and Geological Engineering). ADA improvements (bathrooms and elevator), completed January 2002.

FULTON CHAPEL. Named in honor of Chancellor Robert Burwell Fulton, the chapel was built in 1927 to accommodate an audience of more than 900.

BONDURANT HALL. Named in honor of the first dean of the Graduate School, Professor Alexander L. Bondurant, the building was completely renovated 1999-2000 and now houses the departments of English and Modern Languages.

FARLEY HALL. Built in 1929 to house the School of Law and enlarged by additional construction in 1959, Farley Hall was renovated for use by the University Archives blues collection, Music Library, *Ole Miss* yearbook staff, *The Daily Mississippian*, and the Department of Journalism. The building is named in honor of three generations of a family associated with the University since its founding: Robert Joseph Farley, a member of the University's first law class; his son, Leonard J. Farley, dean of the School of Law 1913-1921; and his grandson, Law Dean Robert Joseph Farley. It is now awaiting renovation and an addition to house the Overby Center for Journalism and Southern Politics.

BARR HALL. Built as a residence hall in 1929, Barr Hall, which was named for Hugh A. Barr, an Oxford attorney, was renovated in 1976 to an academic facility providing housing for the Department of Music and the African American Studies Program.

GYMNASIUM. Built in 1929, the old gym was used by the Department of Health, Physical Education, and Recreation until 1983, and parts of the English, history, and theatre departments and the library thereafter. The gym, completely renovated from 1997-1998, was renamed MARTINDALE, and is now the Student Services Center, which holds a variety of student service and administrative offices.

ISOM HALL. Isom Hall was built in 1929 and served as a dorm until conversion to offices in 1997. It now houses the Department of Theatre Arts.

PAUL B. JOHNSON COMMONS. The University's dining complex comprised the original cafeteria, built in 1929 and renovated in 1965 for a banquet hall and private dining rooms, and a modern cafeteria built in 1963. Although some cafeteria facilities were moved to the Ole Miss Union in 1986, the Johnson Commons Cafeteria was renovated in 1995, and the building still contains the main Dining Center and Food Services offices. Portions of the building are used by the University ballroom, the ID Center, the Department of Public Relations, the Department of Human Resources, and the Office of Special Events and Protocol. The building was named for Paul B. Johnson, Sr., former Mississippi governor.

VAUGHT-HEMINGWAY STADIUM, HOLLINGSWORTH FIELD. Built in 1929 and subsequently enlarged, the stadium now has a capacity of 62,500. Renovation in 1988 included a new press box and sky box suites, lighting, restrooms, and concession facilities. Renovations in 1997-2000 included seating and services for the Guy C. Billups Rebel Club and west side restrooms, and in 2003 enclosed the south endzone.

ATHLETIC DEPARTMENT FIELD HOUSE. Expanded and renovated in 1993, the building contains training, therapy, equipment, and locker facilities for men's and women's intercollegiate athletic programs.

VARDAMAN HALL. Named in honor of James K. Vardaman, Mississippi governor and U.S. senator, this building was constructed in 1929 to serve as a men's dormitory. Renovated in 1988, it now provides varied offices for administration.

GUYTON HALL. Built in 1934 and named for Dr. B.S. Guyton, the building was renovated in 2003 and now houses the School of Education.

LEAVELL HALL. Completed in 1938 as a men's residence hall and named in memory of faculty member Richard Marion Leavell, the building now houses the Black Student Union and provides classroom space for preschool children with speech/language/hearing disorders.

BARNARD HALL. Barnard Hall was built in 1938 and served as a dorm until conversion to offices in 1997. After recent renovations, Barnard houses Army, Navy, and Air Force ROTC.

SOMERVILLE HALL. Somerville Hall was built in 1939 and served as a dorm until conversion to offices in 1997.

THE UNIVERSITY MUSEUMS. The University Museums consist of the Mary Buie Museum, completed in 1939, and the adjoining Kate Skipwith Teaching Museum, which was built in 1977 and enlarged in 2001. Collections represent the fields of archaeology, art, anthropology, decorative arts, history, science, and technology.

ARTHUR B. LEWIS HALL AND KENNON OBSERVATORY. Both buildings were constructed in 1939 for the Department of Physics and Astronomy. The observatory was named in memory of Professor William Lee Kennon. Lewis Hall was named in honor of Dean Emeritus of Liberal Arts Lewis in 1984. An addition to Lewis Hall was completed in 1994.

THE WEIR MEMORIAL BUILDING. Built in 1939 from a large bequest by Mr. Rush C. Weir to the University, the building once served as the student union. A wing was added in 1954. The building now houses the Department of Computer and Information Science and student computer labs after a 2002 renovation.

MISSISSIPPI CENTER FOR SUPERCOMPUTING RESEARCH. The building, constructed in 1948 as a University laundry, was converted in 1974 to house the Receiving Department and Printing Services. The building was redesigned and renovated in 1987-89 to house supercomputers.

BAXTER HALL. Completed as a men's dormitory in 1948, the building was named in memory of Hermann Myrtle Baxter, former student body president who was killed during World War II. The building was renovated in 1990 to serve as a telecommunications center. Telephone services for students and faculty are arranged in this building.

GERARD HALL. Constructed in 1948, this building was named in memory of Auguste (Gus) Gerard, a former student body president who was killed during World War II. Originally a men's residence hall, Gerard Hall was renovated in 1989 to house University Publications and Imaging Services.

SAM HALL. Completed in 1948 as a dormitory for men, this building was named in memory of William Charles Sam, a former president of the student body who was killed during World War II. The building was renovated in 1989 to house Printing Services.

OLD BAND BUILDING. Originally designed to meet the special needs of the Ole Miss Marching Band, the building was completed in 1950. It now houses intercollegiate athletics and is called INTERCOLLEGIATE ATHLETICS WEST.

THE JOHN DAVIS WILLIAMS LIBRARY. The main library building was completed in 1951, with the west wing added in 1970. The library was named in honor of Chancellor Emeritus J.D. Williams in 1979. A major renovation and expansion project was completed in 1996, giving the Library almost 200,000 square feet of space.

TRIPLETT ALUMNI CENTER. Built in 1951 with gifts from the alumni to the University, the building serves as a conference center and provides lodging for visitors to the campus. An addition completed in 1967 increased the lodging capacity to 100 rooms. Extensive renovations of the house were completed in 1997.

THE E.F. YERBY CONFERENCE CENTER. Named in honor of E. F. Yerby, who was responsible for major development of University extension activities during the 1950s, this building was opened in 1954. It provides accommodations for conferences and institutes and houses offices of Media Production & Distributed Learning and the Division of Outreach and Continuing Education.

CARRIER HALL. Gift of the late Mr. and Mrs. Robert M. Carrier, the building was completed in 1954 to house the School of Engineering.

THE ENGINEERING SCIENCES BUILDING. The building was converted in 1954 from the former Engineering Machine Shop, originally built in 1938. It was completely renovated from 1996-1997 with emphasis on converting laboratory space to classroom facilities.

RICHARD AND DIANE SCRUGGS HALL. The two-story back wing of this building was constructed in 1929 for use as University High School. In 1956 a gymnasium, a front wing to be used as a library, administrative offices, and classrooms were added. This facility was converted to School of Education use in 1963. Following renovations in 2004-05, the building was named in honor of Richard and Diane Scruggs and now houses the Department of Music.

DAVID H. NUTT AUDITORIUM. The old Education Auditorium now is called the David H. Nutt Auditorium and is part of Scruggs Hall.

THE JOHN W. WHITE PHYSICAL PLANT BUILDING. Constructed in 1955, enlarged in 1957, 1960, and 1966, this service building named in honor of longtime Physical Plant Director John White contains shops, warehouses, and offices of the Physical Plant Department.

POWERS HALL. Named for Chancellor John Neely Powers, this building was completed in 1959 as a residence hall. It was redesigned in 1988 and now houses Information Technologies.

ELMA MEEK HALL. Completed in January 1960 and partially renovated in 2003-04, offices, classrooms, and studios for the departments of Art and Music are provided in Meek Hall. Elma Meek was the student who submitted the name *Ole Miss* for the name of the annual; Ole Miss subsequently became synonymous with The University of Mississippi. A new heating and cooling system was installed in 2002.

CONNER HALL. Conner Hall, completed in 1961 and named in honor of Governor Martin Sennett Conner, housed the School of Business Administration and the School of Accountancy until 1997. Completely renovated in 1998, Conner Hall provides administrative and faculty offices for the School of Accountancy, as well as multimedia classrooms and computer laboratories for both business and accountancy classes.

INTERCOLLEGIATE ATHLETICS BUILDING. Since its completion in 1961, this building has housed offices of the Department of Intercollegiate Athletics: business personnel, administrative personnel, coaching staff, and publicity staff.

ACCELERATOR STRUCTURE. Originally designed to house a 3-MEV particle accelerator and completed in 1963, this underground structure has been renovated as a research facility for the Department of Physics.

WILLIAM M. SHOEMAKER HALL. The first phase of the Science Center, Shoemaker Hall was completed in 1963. The Department of Biology occupies this building. In 1984 the building was named in honor of William Shoemaker, a former member of the board of trustees, because of his untiring efforts on behalf of higher education in general and the field of science in particular.

C. M. (TAD) SMITH COLISEUM, a multipurpose building designed to seat 8,000, was completed in 1966. In 1969 it was named in honor of Smith, a longtime football and baseball coach and director of intercollegiate athletics. New seating was installed in 2002.

HUME HALL. Completed in 1968 as another unit of the Science Center, Hume Hall, named for Chancellor Alfred Hume, houses the Department of Mathematics and the Department of Social Work.

FASER HALL. Built to house the School of Pharmacy, Faser Hall was completed in 1969 and is currently undergoing a phased renovation. It was named for former Pharmacy Dean Henry Minor Faser. The building also houses the Research Institute of Pharmaceutical Sciences.

BISHOP HALL. Named for Professor David H. Bishop upon its completion in 1969, Bishop Hall provides classrooms and offices for the Department of History.

FRANK A. ANDERSON HALL. The chemical engineering building, completed in 1970, was named to honor the former associate dean of the School of Engineering.

SALLY McDONNELL BARKSDALE HONORS HOUSE. This building was constructed in 1971 and was the home of Alpha Delta Pi social sorority. The University purchased the building in 1996 with funds donated by alumni James and Sally Barksdale. The building houses the Sally McDonnell Barksdale Honors College.

THE OLE MISS UNION. Completed in 1976, the Union contains conference rooms, offices for student government and other groups, the cafeteria, a ballroom, automatic bank tellers, game room, lounge areas, and a multipurpose room. The building also houses the University Post Office, the Ole Miss Bookstore, the Campus Copy Center, a satellite office of University Police, and the Central Ticket Office.

LAMAR HALL. Completed in 1977 to house the School of Law and its research and service components, Lamar Hall was named in honor of L.Q.C. Lamar, professor at the University, Confederate ambassador to Russia, member of Congress, secretary of the interior, and associate justice of the U.S. Supreme Court. The building also houses the Eastland Law Library, named for the Honorable James Oliver Eastland, former U.S. senator for Mississippi and distinguished patron of the School of Law.

COULTER HALL. Completed during the academic year 1977-1978, Coulter Hall provides lecture and laboratory space for the Department of Chemistry and Biochemistry. It is named in memory of Dr. Victor Aldine Coulter, member of the Department of Chemistry, 1920-1960, and dean of the College of Liberal Arts, 1936-1957.

THOMAS N. TURNER HEALTH, PHYSICAL EDUCATION, AND RECREATION CENTER. The Turner Center houses the Department of Health, Exercise Science, and Recreation Management and the Intramural and Recreational Services Program and provides recreational facilities for faculty, staff, and students. It was completed in 1983 and renovated adding modern equipment in 1999.

THE BOILER PLANT. Constructed in 1987, this building houses three new steam boilers for heating University buildings and chillers that supply the Chilled Water Loop.

JAMIE L. WHITTEN NATIONAL CENTER FOR PHYSICAL ACOUSTICS. Established by an act of the 99th Congress in 1986, the center is a world-class acoustical research facility. Construction of the 74,000-square-foot building was completed in 1989. The building is named for U.S. Congressman Whitten, who, as representative for the district including the University, served longer than any other congressman.

JOHN N. PALMER, MITCHELL SALLOUM TENNIS CENTER. Completed in 1990, the facility includes offices and dressing rooms for the Ole Miss intercollegiate tennis teams and accommodates 300 spectators for tournament matches. John N. Palmer of Jackson, Mississippi, and Mitchell Salloom of Gulfport, Mississippi, contributed funds toward construction of the stadium. Jack and Wylene Dunbar of Oxford, Mississippi, contributed a pavilion which bears their names.

V.B. HARRISON STUDENT HEALTH CENTER. Completed in 1991, the center houses clinics, offices, and personnel for Student Health Services, the Bessie S. Speed Center for Alcohol and Drug Education, student counseling, and the student pharmacy. The center is named for Dr. Harrison, director and physician-in-charge of the Student Health Department from 1945 to 1971.

OXFORD-UNIVERSITY STADIUM AND SWAYZE FIELD. Built in 1989, this construction was a cooperative venture between the city of Oxford and the University. Baseball games at the intercollegiate level, youth leagues, regional championships, and special events take place at this award-winning facility. The field is named in honor of longtime baseball coach Thomas Swayze.

UNIVERSITY FIELD STATION. Located 14 miles east of campus, this freshwater marine research center tests environmental effects on fish and plant life. The facility has numerous ponds, research laboratories, and caretaker facilities. The facility was acquired by the University in 1990. As of 2000, the field station's office is located in the Center for Water and Wetlands Building.

TELECOMMUNICATIONS CENTER. Built in 1994, the building contains studio facilities and staff offices for broadcast and reception of satellite telemetry. It temporarily housed the National Food Services Management Institute from 1998-2000 and currently is occupied by Procurement Services/Central Receiving Operations.

THAD COCHRAN NATIONAL CENTER FOR NATURAL PRODUCTS RESEARCH. The NCNPR building, completed in 1996, houses the center's herbarium and central instrumentation facility, as well as its laboratories in many areas of chemistry and plant sciences. Renovations and phased expansion of the facility continue. The latest expansion was completed in 2000.

MICHAEL S. STARNES ATHLETIC TRAINING CENTER AND FIELDHOUSE. Completed in December 1995, the Michael S. Starnes Athletic Training Center has a weight room for all athletics, facilities for entertaining and recruiting, and a conference room for the Athletic Department. The field house has dressing rooms and an equipment room for football and a training room for all sports.

HOLMAN HALL. Holman Hall, completed in 1997, was constructed with substantial support by the members of the Holman family. The four-story, 55,000-square-foot building, provides administrative and faculty offices for the School of Business Administration. Holman Hall has large classrooms with retractable screens and multimedia computer projection systems, group study rooms, study alcoves, seminar rooms, conference rooms, and extensive connections to the campus network, providing a technologically advanced learning environment.

NORTH HALL. North Hall provides a structural connection between Conner Hall and Holman Hall, as well as administrative offices, faculty offices, and computer labs. North Hall also contains two state-of-the-art distance-learning classrooms, permitting interactive classes among the Oxford, Southaven, and Tupelo campuses.

NATIONAL FOOD SERVICES MANAGEMENT INSTITUTE BUILDING. Completed in 2000, the building is home for the sponsors of national programs that promote continuous improvement of child nutrition programs.

THE CENTER FOR WATER AND WETLANDS BUILDING. Completed in 2000, the building provides a home for the University Field Station 14 miles east of campus and is the center for water and wetlands research.

ELECTRIC POWER GENERATOR PLANT. Completed in 2002, the plant houses 10 diesel-powered generators to facilitate the power needs of the University.

PARIS-YATES CHAPEL. Completed in 2001, the all-denomination chapel seats approximately 200 individuals and is embellished with an elaborate, handmade pipe organ and carillon.

GERTRUDE C. FORD CENTER FOR THE PERFORMING ARTS. The Ford Center opened in December of 2002. The \$26 million center contains a 1,200-seat main hall, a 400-seat rehearsal hall, and extensive back-of-stage support space.

OXFORD-UNIVERSITY DEPOT. The Oxford-University Depot reopened in October 2003, after an extensive restoration and serves the University and Oxford communities as a center for small meetings and conferences hosted by Continuing Education.

Residential Buildings • The following buildings provide residences: BROWN HALL, completed in 1961; STEWART HALL, 1963; MARTIN HALL, 1969; CROSBY HALL, 1970; HEFLEY HALL, 1959; GUESS HALL, 1960; DEATON HALL, 1951; GARLAND, HEDLESTON, AND MAYES HALLS, 1938; STOCKARD HALL, 1969; FALKNER HALL, 1929; KINCANNON HALL, 1963; AND HOWRY HALL, 1929. The entire group of student housing facilities is undergoing major renovation, which began in 1999. As the Phoenix project continues, modern student housing will be available. There are 318 apartments for students: 118 efficiency apartments (for single juniors, seniors, graduate, and law students), and 120 one-bedroom and 80 two-bedroom apartments (for graduate and law students, single parents, or married couples with children). Ten sorority and 15 fraternity houses provide residential accommodations. The University owns 33 faculty houses and five apartment buildings (58 units), comprising 91 units. The CARRIER HOME was given to the University by the late Mr. and Mrs. Robert M. Carrier with the request that it be used as the official residence of the chancellor. It has been occupied by the chancellor since 1971.

The Oxford-University Airport is located at Clegg Field, north of the campus off College Hill Road. During 1999-2000, the University completed construction of a half-mile of parallel taxiway, hangar and parking apron areas, and an above-ground aircraft fuel farm. Charter flights, rental cars, and flight instruction are available.

LIBRARIES

Julia Rholes, dean of University Libraries • 312 J.D. Williams Library • (662) 915-7092 • jrholes@olemiss.edu

The JOHN DAVIS WILLIAMS LIBRARY is the general library for the University community, and houses the main collection of books, periodicals, microforms, manuscripts, government publications, audiovisual materials, and maps. The general library and its branches hold more than 1 million volumes, more than 2 million microforms, and more than 6,700 current periodical and serial subscriptions. Online electronic resources and services can be found at the Web site http://www.olemiss.edu/depts/general_library/.

In 2001, the J.D. Williams Library became "the library of the accounting profession" upon receiving the library collections of the American Institute of Certified Public Accountants (AICPA). These collections, numbering more than 100,000 items, include rare incunabula as well as copies of every item cited by *Accountant's Index* since its inception in 1923.

The library has been a depository for U.S. government publications since 1883, and is one of only 50 regional depositories in the nation. The GOVERNMENT DOCUMENTS DEPARTMENT holds 2,171,025 items, including print, microforms, maps, and electronic media, and it also receives Mississippi state documents.

The DEPARTMENT OF ARCHIVES AND SPECIAL COLLECTIONS houses one of the world's finest collections of books, manuscripts, and memorabilia devoted to William Faulkner—including his Nobel Prize for Literature. The Mississippi Collection, a part of Archives and Special Collections, contains over 26,000 volumes and 300 manuscript collections of Mississippiana. Also held in the library is the internationally recognized BLUES ARCHIVE, a collection of blues, gospel, and other African-American music traditions, including the B.B. King Record Archive of 7,000 records.

The J.D. WILLIAMS LIBRARY has one branch: the SCIENCE LIBRARY in the Thad Cochran National Center for Natural Products Research building. The library contains 65,000 volumes.

The autonomous JAMES O. EASTLAND LAW LIBRARY complements the resources contained in the Williams library and its branches.

The ROWLAND MEDICAL LIBRARY is located on the Jackson campus in the Verner S. Holmes Learning Resource Center.

The LIBRARY displays changing exhibits of items from its collections of Mississippiana, incunabula, and other rare books and manuscripts.

UNIVERSITY MUSEUMS AND HISTORIC HOUSES

Mr. Albert F. Sperath, director of University Mueums • University Museums • (662) 915-7073 • museums@olemiss.edu

The Museums complex consists of the MARY BUIE MUSEUM, the adjoining KATE SKIPWITH MUSEUM, the WALTON-YOUNG HISTORIC HOUSE, and ROWAN OAK, William Faulkner's house. The SEYMOUR LAWRENCE GALLERY OF AMERICAN ART and the FORTUNE GALLERY were added recently. The museums' collections represent the fields of archaeology, art, anthropology, decorative arts, history, science, and technology. Particularly outstanding are the David M. Robinson Collection, the finest collection of Greek and Roman sculpture, pottery, coins, and bronzes in the South, and the Millington-Barnard Collection of 19th-century scientific apparatus. The precision instruments in the Millington-Barnard Collection were the finest available in the 1850s when they were bought for teaching purposes and the collection is among the most extensive and best-preserved assemblage of its kind in the United States.

The growing collection of Southern folk art, centered on the collection of the dream and vision paintings of Oxford native artist Theora Hamblett, is also outstanding.

The University Museums regularly host significant traveling exhibitions from outside sources and prepare frequent special exhibitions from the permanent collections; many of these exhibitions are coordinated with classes or academic events such as the annual Faulkner symposium. Museums' classrooms and galleries are used for regularly scheduled classes and special events by many University departments. Only a very small selection of the 20,000-piece collection can be displayed at any one time, but all the collections are available to students and faculty for study and research.

THE WALTON-YOUNG HOUSE is a restored Victorian home open by appointment. It was named in honor of Horace and Lydia Lewis Walton, who constructed the house, and Stark Young, a famous Mississippi playwright, drama critic, and author who was both a student and a faculty member at the University. This historic home was built in 1880. Its furnishings are period pieces and interpreters are available to provide tours.

ROWAN OAK, William Faulkner's home, was recently restored and is open to visitors. The grounds are open from dawn to dusk and the Bailey's Woods Trail is a challenging walk between Rowan Oak and the museums.

The University of Mississippi Museums are open free to the public, 9:30 a.m.-4:30 p.m. Tuesday-Saturday and 1-4 p.m. Sunday. The museums are closed on Mondays and University holidays. Guided group tours are available by appointment. You may contact the museums for further information by calling (662) 915-7073. Or e-mail museums@olemiss.edu. Visit our Web site: www.olemiss.edu/depts/u_museum.

THE UNIVERSITY GALLERY

Located in Meek Hall, the gallery is used for art exhibitions, lectures, and other activities of the Department of Art. Loan exhibitions of outstanding professional work in painting, sculpture, graphic arts, and photography are brought to the gallery at regular intervals. Exhibitions of successful student work are scheduled periodically. The gallery exhibitions and lectures are open to the public.

RESEARCH ACTIVITIES

Office of Research and Sponsored Programs • Frederick A.P. Barnard Distinguished Professor Alice M. Clark, vice chancellor for research and sponsored programs • 125 Old Chemistry Building • (662) 915-7482 • research@olemiss.edu

Organized research units are maintained by the University to conduct research on practical and theoretical problems. Faculty, students, and staff participate in research efforts of organized research groups. For the most part, the studies conducted through the special research units complement the research accomplished by undergraduates for senior research projects in their major fields and by graduate students for theses and dissertations.

Opportunities often exist for undergraduates to participate in research being conducted by the University's research units. Interested students should contact the director of the center or institute in question.

Center for Archaeological Research • Professor Jay Johnson, director • 211 Leavell Hall • (662) 915-7339 • sajay@olemiss.edu

The mission of the center is to improve the general understanding of prehistoric and historic events in the state and region. Human behavioral patterns, as chronicled in the archaeological record, are nonrenewable cultural resources. By providing cultural resource management expertise, the center helps ensure that construction projects comply with federal laws concerning cultural resources.

Center for Educational Research and Evaluation • Associate Professor Kathleen Sullivan, director • 133 Guyton Hall • (662) 915-5017 • ksull@olemiss.edu

The University of Mississippi's Center for Educational Research and Evaluation (CERE) responds to national, state, and local research and evaluation needs. Located within the School of Education, CERE works with a variety of schools and departments within The University of Mississippi and other universities, as well as with local school districts, to design evaluation plans for grant proposals and to evaluate funded projects. In addition to performing evaluation activities, CERE designs and conducts descriptive, relational, and experimental research in response to research needs of requesting agencies. Within the School of Education, CERE contributes to program improvement by coordinating the collection, maintenance, and use of assessment data at all levels in compliance with accreditation standards of the National Council for Accreditation of Teacher Education.

Center for Marine Resources and Environmental Technology • Research Professor J. Robert Woolsey, director • 220 Old Chemistry Building • (662) 915-7320

The CMRET encourages the development of selected mineral resources from U.S. seabeds by providing opportunities for engineering systems research, development, and technology transfer within academic, governmental and industrial communities. It provides primary leadership and facilities for the education and training of the nation's scientists and engineers in the field of marine minerals. The CMRET is administered through the School of Engineering and the Mississippi Mineral Resources Institute (MMRI).

Center for Population Studies • Professor David Swanson, director • 301 Leavell Hall • (662) 915-7288

The center promotes population education and research for the University, state, and region. It is the lead agency of the State Data Center for Mississippi, a joint program of the U.S. Bureau of the Census and the state of Mississippi. In this capacity, the center distributes census and other statistics, provides instruction on data analysis, and acts as a liaison between the Bureau of the Census and data users in Mississippi. The center also is a member of AUBER (Association of University, Business, and Economic Research Centers). The center undertakes research on Mississippi's population and on broader demographic problems; current research concerns population movement and redistribution over the past 50 years in the state. Some of this research is reported in the working paper series posted at the center's Web site, http://www.olemiss.edu/depts/population_studies.

Center for Speech and Hearing Research • Associate Professor Carolyn Wiles Higdon, director • 303 George Hall • (662) 915-7652

The CSHR was established as an ancillary part of the Department of Communicative Disorders in the National Center for Physical Acoustics to facilitate research opportunities for individuals in the field of speech and hearing science with an interest in acoustic research. The CSHR's mission is to advance understanding of the acoustic aspects of speech and hearing disorders among adults and children, and to develop and investigate innovative research ideas aimed toward the diagnosis, treatment, and (re)habilitation of individuals having such disorders. Research projects include assessing speech intelligibility, laryngeal physiology, and hearing physiology in Navy divers under adverse speaking and listening conditions, and the development of digital hearing aids.

Center for the Study of Southern Culture • Professor Charles Reagan Wilson, director
• Barnard Observatory • (662) 915-5993 • staff@barnard.cssc.olemiss.edu

The center is a focal point for innovative education and research on every aspect of Southern culture. The award-winning *Encyclopedia of Southern Culture*, published in 1989, has been widely hailed as a major contribution to the multidisciplinary study of the South and was a phenomenal publishing success. Other center publications include *The South: A Treasury of Art and Literature*; a five-volume anthology, *Mississippi Writers: Reflections of Childhood and Youth*; the series *Cultural Perspectives on the American South*; *The Blues: A Bibliographical Guide*; and three magazines on indigenous Southern musical forms: *Living Blues*, *Rejoice!*, and *Old Time Country*. The center documents regional experience through taped recordings, photography, and film. Through center efforts, the University library acquired the Kenneth S. Goldstein Folklore Collection, the B.B. King Record Archive, the Lewisohn Collection of books and films on Native Americans and African Americans, and the O'Neal Living Blues Collection.

Center for Water and Wetland Resources • Mark Baker, director • 15 Road 2078, Abbeville, MS 38601 • (662) 915-8021

The center, based at the University Field Station, will assist American agriculture by addressing the impacts of agricultural practices and chemicals on the environment and human health. Facilities include a Laboratory Building, Education/Demonstration Building, Aquatic Culturing Building, a greenhouse, and experimental field sites. The center is researching nonpoint and point pollution, aquatic systems as tools for integrated management of agricultural production, agricultural water quality, and optimal agricultural water use. Research issues to be addressed include use of biologically based technology to clean water and reduce impacts of contamination; enhancement of the quality of runoff from farms to achieve waste-minimizing agriculture while meeting regulatory requirements; conservation of agricultural water supplies through renovation and reuse; reduction of sedimentation, contamination, and surface water degradation through use of constructed aquatic environments; effective and economical protocols for pesticide use; preregistration mesocosm testing of new environmentally compatible chemicals; and detoxification and microbial biotransformation of agrichemicals.

Croft Institute for International Studies • Professor Michael F. Metcalf, executive director • 304 Croft Institute Building • (662) 915-1500 • croft@olemiss.edu

The Croft Institute for International Studies promotes teaching, research, and service activities in international studies. The Croft Institute helps prepare majors in international studies and other students at The University of Mississippi for leadership in business, public service, and other fields in an increasingly interdependent world. In order to promote improvements in international studies throughout the state and the region, the institute conducts professional development workshops for high school foreign language and social studies teachers, as well as for foreign language, history, and social science faculty members at institutions of higher education.

Gatlin Center for Economic Education • Associate Professor William F. Chappell, director • 212 Conner Hall • (662) 915-5835

The Gatlin Center for Economic Education promotes the goal of economic literacy by supporting economic education in the state's schools. Teachers of economics can obtain materials from the center to assist them in using innovative approaches to teach economics. The center also promotes quality teaching through regular seminars and workshops.

Jamie L. Whitten National Center for Physical Acoustics • Frederick A.P. Barnard Distinguished Professor Henry Bass, director • Jamie L. Whitten National Center for Physical Acoustics Building • (662) 915-5905 • ncpa@ncpa.olemiss.edu

The NCPA has a threefold purpose: To perform basic and applied research in acoustics; to educate a cadre of professional scientists and engineers who have a research specialization in acoustics; and to develop products, designs, and techniques that can be commercially exploited and used to improve the economy of the region. The staff consists of world-class scientists and engineers who have established themselves as leading experts in many areas of acoustics research and education. In the congressional act that established the center, funds were appropriated to construct and equip a state-of-the-art research facility specifically designed for acoustics research. Research projects underway at the center include studies in thermoacoustics, acoustic detection of buried landmines, entomology acoustics, aquaculture acoustics, solid-state acoustics, soil characterization through acoustic techniques, transducer development, medical ultrasonics, aeroacoustics, and the physics of sound propagation.

McLean Institute for Community Development • Professor Vaughn Grisham, director • 214 Leavell Hall • (662) 915-7326

The institute works directly with community representatives to apply knowledge to the solution of community problems. It sponsors a nine-month leadership conference that allows participants to develop effective and broad community leadership skills. The institute is currently working in more than 30 states on a variety of economic/community development projects. It has helped establish leadership development programs in more than 200 counties throughout the South. Its areas of research and application include school reform, downtown redevelopment, community assessment, leadership and leadership development, and a variety of economic development topics.

Mississippi Center for Supercomputing Research (MCSR) • David G. Roach, director • 303 Powers Hall • (662) 915-7206 • assist@mcsr.olemiss.edu • <http://www.mcsr.olemiss.edu>

The primary goal of the MCSR is to provide high-performance computing support for research and instruction for Mississippi's state universities. The MCSR makes various supercomputers available to researchers and students at no charge and with equal access for all state universities. The current high-performance computers are a 10-processor Cray C916, a 128-processor SGI Origin 2800, a 219-node Intel Beowulf cluster, and a 64-processor SGI Altix 3700. There are FORTRAN and C++ compilers on these systems, as well as complex engineering and scientific applications software. The statewide education and state government data network connects the computers of the MCSR to the Internet and to Internet2.

Mississippi Law Research Institute • Dr. William Hooper, Jr., director • 286 Kinard Hall • (662) 915-7775

The institute is an official advisory law revision, research, and reform agency. It provides in-depth legal assistance to the legislature and to state agencies on questions of law requiring extensive research. The institute has the most complete law research facilities in the state, a staff of full-time research attorneys, senior law student research associates, and the expertise of the faculty of the School of Law. Research findings and opinions are published in formal comprehensive reports, briefs, and monographs of narrow issues, together with proposed statutes, ordinances, or regulations where appropriate. The institute participates in sponsored research projects both as sole grantee and as a law component of larger research projects.

Mississippi Mineral Resources Institute • Research Professor J. Robert Woolsey, director • 220 Old Chemistry Building • (662) 915-7320 • inst@mmri.olemiss.edu

The mission of the MMRI is to support, conduct, and stimulate applied and basic research in all aspects of the state's energy and industrial mineral resources, including their exploration, assessment, social and environmental impact, mining, and reclamation. The goal of the institute is to provide intelligent uses of mineral resources and related mining technology, with a concern for economic development accomplished with regard for environmental considerations. Scientists, engineers, students, and technicians in these fields have been trained at the associated universities throughout the state through the institute's support of research grants and through practical experience in mining and mineral-related fields.

National Center for Computational Hydroscience and Engineering • Frederick A.P. Barnard Distinguished Professor Sam Wang, director • 102A Carrier Hall • (662) 915-7788

The center's missions include advancing the understanding of mechanisms of water flow and sediment transport, and developing better methodologies for conducting cost-effective research in the areas of hydrodynamics, hydrology, hydraulics, and sedimentation engineering for the enhancement of water resources, environment quality, ecological balance, and soil conservation.

National Center for Justice and the Rule of Law • Visiting Professor Thomas Kevin Clancy, director • 557 Law Center • (662) 915-6897 • ncjrl@olemiss.edu

The NCJRL is funded by the U.S. Department of Justice and addresses the fact that crimes threaten the peace, security, and well-being of both the nation and the world as a global society. Collaboration involves other government and nongovernment agencies in sponsoring research, hosting international and national conferences, and presenting educational programs for lawyers and judges on issues related to criminal justice.

National Food Service Management Institute • Charlotte B. Oakley, executive director • National Food Service Management Institute Building • (662) 915-7658 • nfsmi.org

The mission of the National Food Service Management Institute is to provide information and services that promote the continuous improvement of child nutrition programs. The NFSMI conducts applied research; develops and delivers educational materials and programs via satellite broadcast, print, video, interactive seminars, and computer-based technology; and provides technical assistance through a telephone help desk. The NFSMI also offers materials produced by state agencies and the USDA through its sales office. The NFSMI's scope of work embraces schools in 23,000 school districts in the United States. In addition, the NFSMI's scope of work includes centers and homes participating in the Child and Adult Care Food Program.

The NFSMI is operated in cooperation with The University of Southern Mississippi where the Applied Research Division is located. The NFSMI is administered through a grant agreement with the U.S. Department of Agriculture, Food and Nutrition Service.

National Remote Sensing and Space Law Center • Research Professor Joanne Irene Gabrynowicz, director • 557 Law Center • (662) 915-6857 • jhbaker@olemiss.edu

The National Remote Sensing and Space Law Center serves the remote sensing industry and the public good by objectively researching, addressing, and conducting outreach and educational activities related to the legal aspects of applying remote sensing and geospatial technologies to human activities.

National Tax History Research Center • Professor Tonya Flesher, director • 302 Conner Hall • (662) 915-5731 • actonya@olemiss.edu

The National Tax History Research Center is cosponsored by the Patterson School of Accountancy and the Academy of Accounting Historians. The center is the nation's only research center and library devoted to the development of income taxation in America.

Public Policy Research Center • Associate Professor Harvey Palmer, director • 301 Dupree Hall • (662) 915-7415 • ssrl@olemiss.edu

The PPRC is home to the Social Science Research Laboratory (described below). The PPRC provides a range of public services and research related to Mississippi government. The SSRL includes a state-of-the-art survey facility that is used for research on public policy issues, as well as for academic research.

Research Institute of Pharmaceutical Sciences • Professor and Dean Barbara Wells, executive director • 1018 Thad Cochran Research Center • (662) 915-7265 • pharmacy@olemiss.edu

The Research Institute of Pharmaceutical Sciences (RIPS) was chartered by the Mississippi Legislature in 1964 and exists within the organizational structure of the School of Pharmacy at The University of Mississippi. The Research Institute is organized around the efforts of a core of full-time research faculty. In addition, the academic faculty of the School of Pharmacy may have part-time appointments in the institute. Activities of the institute are conducted through the National Center for Natural Products Research (listed below), as well as the Center for Pharmaceutical Marketing and Management (listed below).

National Center for Natural Products Research • The mission of the National Center for Natural Products Research is to improve human health and agricultural productivity through the discovery, development, and commercialization of natural products or derivatives as pharmaceuticals and agrochemicals. The national center conducts basic and applied multidisciplinary research and educational activities in two major programmatic areas: the discovery of potential new drugs for certain infectious diseases, cancer, and immune and inflammatory diseases, and the development of phytomedicines as therapeutic agents. Additionally, the national center conducts research related to the development of medicinal plants as alternative crops for U.S. farmers.

Center for Pharmaceutical Marketing and Management • The Center for Pharmaceutical Marketing and Management promotes efficiency and effectiveness in the marketing and management of pharmaceutical products and services in all segments of the industry. Through a unique strategic alliance between the School of Pharmacy and the School of Business Administration, the Center for Pharmaceutical Marketing and Management applies The University of Mississippi's distinctive competencies to focused research and innovative educational programs involving health care. The Center for Pharmaceutical Marketing and Management is committed to supporting education at all levels—undergraduate, graduate, and practicing professionals. The center also provides an environment where business and education can come together to exchange real-world research ideas, results, and information. Past, present, and future research includes both applied and theoretical projects in an environment that encourages mutual interaction between industry professionals and the staff and students in the center. An open exchange of ideas, collaboration on development of solutions to problems, and dissemination of the findings will be the result. The programs of the center include: Pharmaceutical Marketing and Management Research, Pharmacy Entrepreneurship, and Pharmosaic (a pharmaceutical marketing workforce diversity initiative).

Sarah Isom Center for Women • Dr. Mary Clare Curruth, director • 203 Johnson Commons • (662) 915-5916 • isom_center@olemiss.edu

The center is dedicated to the development of curriculum and scholarship about women, the dissemination of information about their expanding career opportunities, and the establishment of mutual support networks for women of all ages and backgrounds. Through the John Davis Williams Library, the center is helping to develop research collections and to recover materials once neglected as unimportant, so that the faculty and students may further important research in gender studies.

Social Science Research Laboratory • Associate Professor Harvey Palmer, director • 301 Dupree Hall • (662) 915-7415

The mission of the SSRL is to provide comprehensive facilities for the formulation and execution of funded social science research projects, provide program evaluation services to the University community, and to make The University of Mississippi the state's center for conducting social science research on issues of state, national, and international importance that affect Mississippians.

University Field Station • Mark Baker, director • 219 Shoemaker Hall • (662) 915-8021

The field station, located 10 miles northeast of campus, consists of more than 740 acres of pine and mixed hardwood forest, bottomland forest, open fields, springs, wetlands (including eight constructed wetlands), and more than 200 stream-fed ponds and mesocosms that offer unique opportunities for experimental research on aquatic ecosystems. Facilities have been expanded to include a Visitor Center/Education Building, state-of-the-art communication capabilities, general research and analytical laboratories, and an animal and plant culture building.

In addition to the programs of the groups above, the University, through its various departments, participates in programs of the OAK RIDGE NATIONAL LABORATORY, the OAK RIDGE ASSOCIATED UNIVERSITIES, the MISSISSIPPI-ALABAMA SEA GRANT CONSORTIUM, the MISSISSIPPI NASA SPACE GRANT PROGRAM, and the GULF COAST RESEARCH LABORATORY. The University is a member of the MISSISSIPPI RESEARCH CONSORTIUM, a coalition of Mississippi's four comprehensive/research universities.

ACADEMIC SERVICES

The Academic Support Center • Dr. Charles Gates, director • 350 Martindale • (662) 915-5970 • www.olemiss.edu/depts/asc

The Academic Support Center (ASC) at The University of Mississippi includes among its duties the development and implementation of academic support services offered to students. ASC advisers place particular emphasis on academic advising, including advisement of students without declared majors as well as advisement and support for students in Health Professions degree programs and pre-professional tracks. ASC staff oversees the academic advising program during summer orientation for all entering freshmen, regardless of major, and provides support for faculty advisers, including workshops, printed materials, and an advising Web page. ASC advisers also work with other offices and departments on the UM campus in student retention efforts.

Please note that students must declare a major upon the completion of 45 hours credit earned. The University encourages students to make timely decisions, seeking counsel as appropriate, and prepare to enter a major so as to ensure a timely graduation. Further, students should declare a major in order to receive important communications from the appropriate dean's and department offices. By the time a student enters the junior year, he or she will usually have completed the "general education" requirements for most degrees and should be under the guidance of the appropriate academic unit.

The Academic Support Center's mission is to offer professional, quality advising and support to the University of Mississippi community through efficient service, communication of University policy, and open collaboration with University departments and support services in an effort to facilitate the educational experience.

The Academic Support Center's **Health Professions Advising Office** provides: one-on-one advising; assistance with selection of major; close tracking of students' programs of study; assistance with students' professional school application portfolio; preparation for professional school interviews; informative health professions-related sessions, forums, and workshops; MCAT and DAT test preparation; sponsorship of Alpha Epsilon Delta; a library of materials, including professional school bulletins, curriculum outlines, professional newsletters, and applicant materials. The ASC Office of Health Professions Advising also publishes a newsletter sent to current and prospective students.

The Office of Health Professions Advising in the Academic Support Center at The University of Mississippi is committed to helping students achieve their professional goals in: medicine; dentistry; nursing; optometry; veterinary medicine; and allied health fields, including cytotechnology, dental hygiene, health information management, medical technology/clinical laboratory science, occupational therapy, and physical therapy.

Information Technology • Dr. Emmette Hale III, associate vice chancellor for information technology • 302 Powers Hall • (662) 915-7206 • it@olemiss.edu • www.olemiss.edu/depts/it

The Office of Information Technology (IT) offers the campus community a wide array of resources, including high-performance computing systems, e-mail accounts and Web hosting services, public computing labs, personal computer support, and a number of online services such as Blackboard and Web-based registration for classes. A comprehensive campus network connects the University to the Internet, including some areas that are wireless-enabled. The IT Helpdesk is available by phone (915-5222), e-mail (helpdesk@olemiss.edu), and walk-in (Galtney Center in Weir Hall) to assist University students, faculty, and staff with technology issues. Various schools and departments on campus provide additional computing facilities. Additional information on student access to computers is given in the Student Life chapter.

An APPROPRIATE USE POLICY (<http://www.olemiss.edu/ause.html>), which reflects academic honesty, ethical behavior, and consideration in the consumption of shared resources, governs the use of all campus computer facilities.

Media Production & Distributed Learning • Andy Harper, director • Wing D, Kinard Hall • (662) 915-5917 • acharper@olemiss.edu

Media Production & Distributed Learning provides support services in distance learning, computer network administration, and multimedia production for the Division of Outreach and Continuing Education. The department offers a broad range of capabilities including Internet videoconferencing, satellite teleconferencing and uplink services, studio and field production for television broadcast and nonbroadcast video programs, digital video editing and postproduction services, CD and DVD authoring and duplication, and videotape duplication.

University Press of Mississippi • Education and Research Center of Mississippi, 3825 Ridgewood Road, Jackson, Mississippi 39211 • (601) 432-6205 • press@ihl.state.ms.us

The University Press of Mississippi was founded in 1970 to encourage scholarly research and creative writing, fiction and nonfiction, by publishing works of the highest quality and to distribute as widely as possible the books it publishes. Functioning as the scholarly publishing arm of the state-supported universities in Mississippi, the University Press is governed by a board of directors made up of two representatives from each of the eight state universities, a representative from the Board of Trustees of State Institutions of Higher Learning, and the director of the press. The University Press publishes about 60 books each year. Primary areas of interest are literary criticism, history, liberal arts, and Southern studies.

University Communications

MEDIA AND PUBLIC RELATIONS • Barbara Lago, director • Johnson Commons West
• (662) 915-7236 • blago@olemiss.edu

Provides full communications services to faculty, staff, and students to promote scholarly activities and accomplishments through print, broadcast, electronic, and other media.

PRINTING SERVICES • Anthony Seaman, director • Sam Hall • (662) 915-7066 • aseaman@olemiss.edu

Houses the Quick Copy Center and provides full-service four-color offset printing, scanning, copying, typesetting, and bindery services for the University and for the personal needs of members of the University community.

CAMPUS COPY CENTER • Anthony Seaman, director • The Ole Miss Union • (662) 915-6723

Offers walk-up copy services, fax services, bindery services, and UPS shipping service for students and all members of the University community.

UNIVERSITY PUBLICATIONS • C. Sabrina Brown, director • 203 Gerard Hall • (662) 915-7355 • cbrown@olemiss.edu

Provides editorial and graphic design services for marketing materials, including magazines, brochures, newsletters, ads, exhibits, and Web sites.

IMAGING SERVICES • Robert Jordan, assistant director • 221 Gerard Hall • (662) 915-7260 • rjordan@olemiss.edu

Provides studio and location photography and digital imaging, print and slide duplication, computer imaging and scanning, film processing services, and poster printing.

COMMUNITY SERVICES

Division of Outreach and Continuing Education • Timothy R. Angle, assistant provost for summer school and outreach • E.F. Yerby Conference Center • (662) 915-7282 • outreach@olemiss.edu

The Division of Outreach and Continuing Education provides professional development and public service for diverse populations within the state and across the region. By offering administrative and support services as well as technical assistance, the Division enables the University's schools and departments to focus their teaching and research on academic programming and evaluation of their public service and continuing education programs. The Division's courses and programs are offered on and off campus; these include study abroad, institutes, conferences, seminars, and teleconferences for professional development, as well as youth-oriented and general interest activities. Academic credit activities include independent study and online courses and off-campus courses at the Tupelo, Booneville, and Southaven locations.

Mississippi Small Business Development Center • Doug Gurley, state director • B-19 Jeanette Phillips Drive • (662) 915-5001

The Mississippi Small Business Development Center (MSBDC) network is a statewide business delivery system, which employs the resources of five universities and four community colleges to provide Mississippi's small business community with business, international trade, management counseling and training, and technical assistance. The program is administered by The University of Mississippi, the designated "lead" institution for the MSBDC in Mississippi, under direction of the dean of the School of Business Administration and in cooperation with the U.S. Small Business Administration District Office in Jackson.

Mississippi Teacher Corps • Dr. Andrew P. Mullins, Jr., director • School of Education, Room 211, University, Mississippi 38677 • (800) 884-7606 • mtc@olemiss.edu

The Mississippi Teacher Corps provides a framework for outstanding liberal arts graduates to become high school teachers in Mississippi. An intensive eight-week summer institute trains corps recruits in the skills needed for their transition to a teaching role; previous education course work is not required. After passing the Praxis I and the Praxis II, recruits qualify for alternative teacher certification with the Mississippi State Department of Education and contract to teach for at least two years in a public school district selected on the basis of local need. While teaching, corps members pursue a Master of Arts in curriculum and instruction from the University.

Psychological Services Center • Dr. William Paul Deal, director • G-382 Kinard Hall • (662) 915-7385

The Psychological Services Center (PSC) is an outpatient clinic that serves the University, Oxford, and surrounding communities offering help with family, relationship, and self-concept problems as well as for problems that can be more severe, such as depression, panic attacks, agoraphobia, and sexual assault. PSC therapists are advanced doctoral students in clinical psychology who are supervised by staff psychologists.

Speech and Hearing Center • Carolyn Higdon, director • George Hall • (662) 915-7271

The center provides speech, language, and hearing evaluations and management, including hearing aid dispensing, to patients of all ages. Special services in audiology include auditory evoked response testing, hearing aid dispensing, and tests of auditory processing. Evaluations and therapy within the speech/language division address disorders of articulation, voice, fluency, language, aphasia, dysarthria, and apraxia. The center is both a service facility and a student training site. Graduate students in speech/language pathology serve clients under the direct supervision of the departmental faculty. Clinical instruction is facilitated by state-of-the art clinical and instructional equipment.

University of Mississippi Writing Project • Ellen Shelton, director • (662) 915-7925 • fax: (662) 915-1535 • e-mail: eshelton@olemiss.edu

The Teachers' Writing Project, one of the 160 sites of the National Writing Project, conducts professional development workshops, research activities, and a Summer Institute for teachers.

Willie Price University Nursery School • Jennifer Angle, director of youth programs • 107 Kinard • (662) 915-7444

The Willie Price University Nursery School is operated by the School of Education and the Division of Outreach and Continuing Education and is licensed by the Mississippi State Department of Health. It provides practical experiences for students enrolled in child development and related courses, as well as an on-site location for faculty and student research in the areas of psychology, counseling, curriculum development, communicative disorders, and nutrition. The center serves preschool children ages 3, 4, and 5-year-old kindergarten.

THE UNIVERSITY OF MISSISSIPPI FOUNDATION

Don L. Frugé, president/CEO • (662) 915-5944 • dfruge@olemiss.edu • Sandra M. Guest, secretary/treasurer • (662) 915-5003 • sguest@olemiss.edu • Post Office Box 249, University, MS 38666 • www.umf.olemiss.edu

The University of Mississippi Foundation is a nonprofit corporation chartered in 1973 by the state of Mississippi to operate primarily for the benefit of The University of Mississippi. The foundation is responsible for receiving, receipting, investing, and distributing all gifts for the benefit of The University of Mississippi. It pursues this mission in an environment of productive teamwork, effective communication, and relentless service to our donors, University administrators, faculty, staff, and students. Communication of University needs and priorities along with encouraging investment in the future of Ole Miss are integral to our success. Integrity, honor, civility, service, and respect for our donors and their wishes serve as the foundation's guiding principles.

ALUMNI ASSOCIATION

Warner Alford, executive director of alumni affairs • 172 Triplett Alumni Center, P.O. Box 1848, University, MS 38677-1848 • (662) 915-7375 • warner@olemissalumni.com

Established in 1852, the Ole Miss Alumni Association is dedicated to making a connection with alumni and friends of the University and to supporting Ole Miss. Graduates of the University are eligible for a complimentary one-year membership upon completion of their degree(s). Former students who completed at least two semesters on campus or 36 hours at one of the off-campus branches and faculty and professional staff members who have served five years or more are eligible for membership. Parents and friends of Ole Miss are invited to become members by choice. Students may join the Student Alumni Council and participate in alumni-related activities. The Department of Alumni Affairs maintains a database of names and addresses of alumni and friends of the University; involves alumni and friends through various activities and programs; arranges Homecoming activities; organizes reunions; coordinates meetings of alumni clubs around the world; publishes *The Alumni Review*; sponsors the Alumni Hall of Fame; sponsors an extensive travel program; honors 25-year faculty and staff members; maintains support and hosts activities for the college and schools through 14 professional alumni chapters; coordinates activities for former athletes and friends through the M-Club Alumni Chapter; identifies alumni volunteers for student recruiting and career advising; and operates The Inn at Ole Miss for housing visitors to Oxford and Ole Miss.

Academic Program

THE COLLEGE AND SCHOOLS

The faculty and curricula of the University are organized into one college and 13 schools. Open to undergraduates are the College of Liberal Arts, the schools of Accountancy, Applied Sciences, Business Administration, Education, Engineering, and Pharmacy—all located on the Oxford campus. The School of Law and the Graduate School, also on the Oxford campus, require at least a baccalaureate degree for admission.

The University of Mississippi Medical Center in Jackson houses the schools of Medicine, Nursing, Health Related Professions, Dentistry, and Graduate Studies in the Health Sciences, and the University Hospitals and Clinics.

The College of Liberal Arts • The many departments of the college offer courses of study in the fine arts and humanities, as well as in the physical, biological, and social sciences. Degrees available include the Bachelor of Arts with a major in almost 30 fields of knowledge, the Bachelor of Science, the Bachelor of Music, and the Bachelor of Fine Arts.

The Patterson School of Accountancy • The school was established in 1978, and thereby became one of the first separate schools of accountancy in the United States. In 1983, the school was admitted into the prestigious Federation of Schools of Accountancy. The curriculum is designed to provide the School of Accountancy graduate with an understanding of the multiple facets of accounting and prepare the student for a career as a professional accountant. Areas of study include financial accounting, managerial accounting, cost accounting, governmental accounting, systems, auditing, and taxation.

The School of Applied Sciences • The school was established in 2001 and includes the departments of Communicative Disorders, Health, Exercise Science and Recreation Management, Family and Consumer Sciences, Legal Studies, and Social Work. The School of Applied Sciences at The University of Mississippi offers professional preparation programs that integrate academic study, clinical training, creative research, service-learning, and community outreach and lead to the development of future leaders whose professional endeavors will improve health and well-being.

The School of Business Administration • Curricula of the school are designed both for those who plan to operate their own businesses and for those who plan to occupy responsible positions in business organizations. The Bachelor of Business Administration degree is offered in the areas of banking and finance, economics, insurance and risk management, marketing communications, management, management information systems, managerial finance, marketing, and real estate.

The School of Education • A major function of the school is to assist the K-12 schools of Mississippi by producing well-prepared teachers, administrators, counselors, and other educational personnel and by providing various educational services. The Bachelor of Arts in Education degree is offered in the areas of elementary education, secondary education, and special education.

The School of Engineering • Theoretical and experimental work in chemical, civil, electrical, geological, and mechanical engineering, computer science, geology, and telecommunications are offered leading to the Bachelor of Science and Bachelor of Engineering degrees. The school is a member of the American Society for Engineering Education, Engineering College Research Council, and Engineering College Administrative Council.

The School of Pharmacy • The School of Pharmacy holds membership in the American Association of Colleges of Pharmacy. The school offers two degree programs: (1) two years of pre-professional courses followed by two years of specialized study leading to the Bachelor of Science in pharmaceutical sciences and (2) two years of postbaccalaureate study leading to the Doctor of Pharmacy degree. Previous attainment of a B.S. in pharmacy from this or another ACPE-accredited School of Pharmacy or of a B.S. in pharmaceutical sciences (practice track) from this institution is a prerequisite for admission into the Doctor of Pharmacy program. The six-year curriculum leading to the Doctor of Pharmacy degree (Pharm.D.) is constructed to provide a broad foundation in pharmacy and the related fields of pharmacy practice, pharmacy administration, medicinal chemistry, pharmaceuticals, pharmacognosy, and pharmacology. Such a background is essential for the delivery of pharmaceutical care in all types of practice settings: community pharmacy, institutional pharmacy, pharmaceutical manufacturing, pharmaceutical research, pharmaceutical education, or government service.

The Graduate School • Prior to 1870, The University of Mississippi conferred the honorary degree of Master of Arts upon certain undergraduates who had obtained intellectual distinction. Courses at the graduate level were first offered in 1870. A definite program of graduate study with a minimum residence requirement of one academic year was inaugurated in 1890. The Graduate School was formally organized in 1927 to coordinate and administer all graduate studies at the University.

The Graduate School holds membership in the Council of Graduate Schools in the United States. With a faculty of more than 400 members, the Graduate School offers more than 70 degree programs leading to the master's, specialist, and doctoral degrees through the College of Liberal Arts and schools of Accountancy, Applied Sciences, Business Administration, Education, Engineering, and Pharmacy. Policies for the Graduate School are set by the Graduate Council and administered by the Graduate School dean, who also serves as associate provost.

Complete information concerning the Graduate School is found in the Graduate School Catalog, which may be obtained from the Office of the Graduate School of the University.

The School of Law • The Mississippi Legislature first established a Department of Law at the University in 1854. The School of Law is the fourth oldest state-supported law school in the United States and is a member of the Association of American Law Schools. The Law School offers three years of instruction leading to the Juris Doctor degree. The School of Law, the School of Business Administration, and the Graduate School offer a concurrent program leading to the Juris Doctor/Master of Business Administration degrees. All programs are housed in the five-story Law Center, which also contains the 306,000-volume Eastland Law Library.

Every law school applicant must take the Law School Admissions Test (LSAT) and register with Law School Data Assembly Service (LSDAS) prior to being considered for admission. Applicants should write Law School Admissions Services (LSAS), Box 2000, Newtown, PA 18940, for information concerning the test and the service. Complete information concerning the School of Law is contained in a separately published Law School catalog, which may be obtained from the Law School Admissions Office.

The School of Medicine • The four-year program leading to the degree of Doctor of Medicine requires a minimum of three years of pre-medical study for entrance (see Health Professions in the College of Liberal Arts chapter). Preference is given to applicants who are legal residents of Mississippi. Certificate programs are available in nuclear medicine technology and radiologic technology.

The School of Nursing • The school offers programs leading to the Bachelor of Science in Nursing, the Master of Science in Nursing, and the Doctor of Philosophy in Nursing. The School of Nursing requires two years of approved prenursing study for admission to the baccalaureate program. Preference is given to applicants who are legal residents of Mississippi.

The School of Health Related Professions • Established in October 1971, the school's educational programs prepare various health team personnel to assist in the diagnosis and treatment of patients. The baccalaureate degree is offered in cytotechnology, dental hygiene, health information management, and clinical laboratory sciences. The professional, entry-level master's degree is offered in occupational therapy and physical therapy. A certificate program is offered in emergency medical technology. Most of the programs in the School of Health Related Professions require two years of approved professional study for entrance. Preference is given to applicants who are legal residents of Mississippi.

The School of Dentistry • Established in 1973, the school offers a four-year program leading to the degree of Doctor of Dental Medicine. The School of Dentistry requires a minimum of three years of pre-dental study for entrance. Preference is given to applicants who are legal residents of Mississippi.

The School of Graduate Studies in the Health Sciences • Established in 2001, the School of Graduate Studies in the Health Sciences offers programs leading to the Master of Science and Doctor of Philosophy in the biomedical sciences, the clinical health sciences, and the nursing sciences. The school, the Medical Center's fifth, previously operated under the auspices of the Graduate School of The University of Mississippi. Please refer to the Bulletin of The University of Mississippi Medical Center for a general description of the graduate programs offered at the Medical Center.

ACCREDITATION

The University has occupied a position of educational leadership not only in the state but also in the South and the nation. It was a charter member of what is now the Southern Association of Colleges and Schools, a regional accrediting agency; helped found the National Association of State Universities and Land Grant Colleges; and pioneered the accreditation of high schools in Mississippi.

The University of Mississippi is accredited by the **Commission on Colleges of the Southern Association of Colleges and Schools** [1866 Southern Lane, Decatur, Georgia 30033-4097; telephone (404) 679-4501] to award baccalaureate, master's, specialist,

first professional, and doctoral degrees. The institution as a whole and, where appropriate, its subdivisions are recognized by regional and national organizations and accrediting agencies.

College of Liberal Arts • Degree programs in the Department of ART are accredited by the National Association of Schools of Art and Design. The Department of CHEMISTRY AND BIOCHEMISTRY is accredited by the American Chemical Society. The Department of JOURNALISM is accredited by the Accrediting Council on Education in Journalism and Mass Communication. The Department of MUSIC is an accredited member of the National Association of Schools of Music.

School of Accountancy • The baccalaureate, master's and doctoral degree programs are all accredited by AACSB International.

School of Applied Sciences • The clinical service and academic training programs of the Department of Communicative Disorders are accredited by the American Speech-Language-Hearing Association. The Dietetics Program in the Department of Family and Consumer Sciences is accredited by the American Dietetics Association. The Park and Recreation Management program is accredited by the National Recreation and Park Association. The program leading to the Bachelor of Social Work is accredited by the Council on Social Work Education.

School of Business Administration • The school is a member of the AACSB International—the Association to Advance Collegiate Schools of Business. Both undergraduate and graduate programs of the school are accredited.

School of Education • The teacher education program is accredited by the National Council for Accreditation of Teacher Education for the preparation of elementary, special education, and secondary content area teachers and school service personnel, with the doctoral degree as the highest degree approved.

School of Engineering • Programs of study in chemical, civil, electrical, geological, and mechanical engineering are accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone: (410) 347-7700. The Bachelor of Science in computer science is accredited by the Computing Accreditation Commission of ABET.

School of Pharmacy • The Doctor of Pharmacy program is fully accredited by the American Council on Pharmaceutical Education.

School of Nursing • The baccalaureate and master's programs are accredited by the National League for Nursing Accrediting Commission (NLNAC) and the Commission on Collegiate Nursing Education (CCNE).

School of Dentistry • The program is accredited by the Commission on Accreditation of the American Dental Association.

School of Law • The School of Law is accredited by the American Bar Association and is a member of the Association of American Law Schools.

School of Medicine • The four-year program leading to the degree of Doctor of Medicine is accredited by the Liaison Committee on Medical Education.

THE SALLY McDONNELL BARKSDALE HONORS COLLEGE

Associate Professor Douglass Sullivan-Gonzalez, dean • Honors Center • (662) 915-7294 • honors@olemiss.edu

The mission of the Sally McDonnell Barksdale Honors College (SMBHC) is to offer a vibrant center of academic and scholarly excellence in a public university setting. Merging academics with public service, the curriculum is designed for the academically versatile student who enjoys intellectual curiosity. Founded in 1997 as a gift from Jim and Sally Barksdale, the Honors College is designed for highly motivated students who thrive in small classes and seminars that emphasize reading, writing, and discussion. All students, both liberal arts and pre-professionals, take an intensive two-course sequence in the social sciences and humanities that can count toward freshman composition hours. As part of the minimum 29 hours of honors credit, students also complete a research project and senior thesis, usually in their majors.

Students from all majors and schools who meet the criteria of the college may participate in the program. Admission is based on a combination of considerations: grade-point average; SAT and/or ACT scores; writing ability; commitment to public service; and recommendations of teachers. Students must apply separately to the SMBHC in addition to applying to the University.

THE HONORS CENTER, a three-story facility remodeled in 1997, is located in the heart of the campus. SMBHC students have 24-hour access to the center, which houses multimedia classrooms, study rooms, a computer lab, kitchen, and a lounge.

CENTER FOR THE STUDY OF SOUTHERN CULTURE

Professor Charles Reagan Wilson, director • Barnard Observatory • (662) 915-5993 • staff@olemiss.edu

The Center for the Study of Southern Culture coordinates and develops teaching, research, preservation, and service programs related to the American South. The center was established in 1977 “to capitalize on the University’s unique resources of place and time to make a significant contribution to scholarship nationwide and to the country’s understanding of both its past and present.” It is housed in Barnard Observatory, one of three surviving antebellum buildings on the Oxford campus. The center administers an interdisciplinary Southern Studies Program that allows undergraduate students to major, minor, or take elective courses in the field. In addition, the center offers an interdisciplinary Master of Arts degree in Southern Studies.

The center promotes lectures, symposia, and exhibitions related to regional studies. Four annual meetings—the Faulkner and Yoknapatawpha Conference, the Porter L. Fortune Chancellor’s Symposium on Southern History, the Southern Foodways Symposium, and the Oxford Conference for the Book—are cosponsored by the center, which also offers lectures, films, dramatic readings and performances, musical events, exhibitions of art and crafts, and seminars for teachers.

CROFT INSTITUTE FOR INTERNATIONAL STUDIES

Professor Michael F. Metcalf, executive director • 304 Croft Institute Building • (662) 915-1500 • croft@olemiss.edu

The Croft Institute for International Studies promotes teaching, research, and professional development activities regarding international studies. The Croft Institute helps prepare its own majors and other students at The University of Mississippi for leadership in business, public service, and other fields in an increasingly interdependent world. The institute conducts professional development workshops for high school foreign language and social studies teachers across the state.

The institute offers the B.A. degree program in International Studies, whose curriculum integrates courses from the institute and the College of Liberal Arts. The curriculum consists in part of three regional studies concentrations, namely, East Asia, Europe, and Latin America.

The institute awards 10 scholarships per entering class. The Croft Scholars hold generous awards that are renewable for up to four years, provided academic standards are met. Additional features of the Croft Institute include international symposia, international visiting scholars, public lectures, and workshops on topics of global concern.

SARAH ISOM CENTER FOR WOMEN

Dr. Mary Clare Carruth, director • 203 Johnson Commons • (662) 915-5916 • carruth@olemiss.edu

Named for the first woman faculty member at The University of Mississippi, the Sarah Isom Center for Women was established in 1979. The first university women's center in the state, the Isom Center is dedicated to the development of curriculum and scholarship about women and gender, the dissemination of information about women's expanding career opportunities, and the establishment of mutual support networks for women of all ages and backgrounds. The center coordinates courses about women and gender offered by various University departments and offers an interdisciplinary minor that introduces students to the broad spectrum of concerns related to gender studies. The center sponsors a variety of programs and services, including an informal noon lecture series. It works closely with other campus organizations to sponsor workshops, lectures, and special events of interest to women.

LOTT LEADERSHIP INSTITUTE

Professor Robert Haws, interim director • Vardaman Hall • (662) 915-3189

The Lott Leadership Institute was established in 1999 to honor U.S. Sen. Trent Lott, a distinguished graduate of the University. The Lott Institute has a three-fold mission. First, it prepares students to assume positions of leadership in an increasingly complex world. Second, it supports policy relevant research through the Public Policy Research Center. Third, it develops a wide range of leadership and outreach programs to enhance the opportunities and lives of our citizens.

Through the Lott Institute, the College of Liberal Arts offers a B.A. degree in public policy studies. The public policy studies curriculum integrates policy-relevant course work drawn primarily from economics, political science, psychology, and sociology. The undergraduate program also joins the systematic study of public policy with the study of leadership qualities necessary for the successful formation and implementation of policy.

The Lott Institute sponsors summer leadership programs for high school students and University undergraduates designed to refine the leadership skills inherent in all students. The Institute also supports and organizes a wide range of leadership development programs for professionals and those citizens already established in the workplace.

MILITARY TRAINING

The Air Force, Army, and Naval Reserve Officers Training Corps offer military training at the University. Organized in the College of Liberal Arts as the departments of Aerospace Studies, Military Science and Leadership, and Naval Science, each service offers a course of study leading to an officer's commission.

THE ACADEMIC YEAR

The University operates on the semester system. **Fall semester** begins in mid-August and ends in mid-December; **spring semester** begins in early January and ends in early May. A detailed University calendar is available from the Registrar's Office and on the Web at www.olemiss.edu/depts/registrar/#acad_cal.

The summer session consists of two terms of approximately five weeks each, each with the same number of classroom hours as a regular semester. (Selected courses in the College of Liberal Arts and the professional schools, and all courses in the School of Law, are offered on a 10-week basis spanning both summer terms.) The *Summer Session Class Schedule* is issued each March by the Registrar's Office.

Students may earn up to 14 semester hours of undergraduate credit during the summer. The summer session accommodates students who wish to accelerate their programs or secure advanced class standing; students who need to make up deficiencies; public and private school teachers who are employed during the regular academic year and desire to secure an advanced degree and to advance their teaching certificates to a higher grade; and freshmen who wish to begin their college careers early. A freshman who enters the University in the summer of 2005 may graduate in the spring of 2008.

OFF-CAMPUS LEARNING

Students taking classes at any of the regional campuses are considered to be in residence at the University. The regional campuses are supervised by the Division of Outreach and Continuing Education.

Tupelo • Dr. Timothy R. Angle, acting director • 1918 Briar Ridge Road, Tupelo, Mississippi 38804 • (662) 844-5622 • fax (662) 844-5625 • tupelo@olemiss.edu

The University of Mississippi Tupelo program serves nontraditional as well as full-time, traditional students. Upper-division undergraduate courses are offered in accountancy, business administration, education, liberal arts, and applied sciences. Graduate courses are offered in education and environmental engineering. Housed in the new Advanced Education Center located adjacent to the Vocational Technical Center of Itawamba Community College, the University works in partnership with ICC and the Mississippi University for Women. Facilities include networked computer labs, distance-learning classrooms, and meeting space for credit courses and noncredit and community programming.

DeSoto Center-Southaven • Dr. Bonnie Buntin, director • 5197 W.E. Ross Parkway, Southaven, Mississippi 38671 • (662) 342-4765 • fax (662) 342-5208 • southaven@olemiss.edu

Located in the DeSoto Center, The University of Mississippi DeSoto Center-Southaven program serves nontraditional as well as full-time traditional students. In partnership with NWCC, the University offers undergraduate courses in accountancy, business administration, education, liberal arts, applied sciences, and nursing, as well as graduate courses in education and environmental engineering. Facilities include a jointly operated library with NWCC, a networked computer laboratory, distance-learning classrooms that make courses available from the Oxford campus, and meeting space for credit courses and noncredit and community programs.

STUDY ABROAD

Study Abroad Office • Susan Oliphant, director; Hoda Baeshen, Study Abroad adviser and instructor; Ruth F. Maron, Study Abroad adviser and instructor • 359 Martindale • (662) 915-1508 • abroad@olemiss.edu

The University sponsors direct exchange and other study abroad opportunities at many locations, in programs originating at the University and through membership in the International Student Exchange Program (ISEP), the Council for International Educational Exchange, and agreements with the Interamerican University Studies Institute, the Institute for the International Education of Students, the Butler University Institute for Study Abroad, the Arcadia University Center for Education Abroad, the Costa Rica Spanish Institute, the University of Virginia, the University of New Orleans, and the University of Minnesota. Participating students in approved programs pay fees to the University, receive University of Mississippi credit, and are considered to be in residence at the University so that grants, loans, and scholarships often may be applied to costs. To qualify for a study abroad program, a student must be in good academic and disciplinary standing and must meet whatever requirements are set by the specific program. To receive academic credit from a study abroad program, the student must obtain approval before participating in the program from the Study Abroad Office, as well as from the department chair and academic dean responsible for the area of each course.

INDIVIDUAL STUDENT EXCHANGE. Current locations for individual exchanges include East Anglia University, Liverpool Hope University College, the University of Reading, and the University of Essex in England; Tilburg University in the Netherlands; Friedrich-Schiller University in Germany; University of Coimbra in Portugal; Umeå University in Sweden; Kansai Gaidai University in Japan; the University Diego Portales in Santiago, Chile; the Catholic University of Uruguay; and all sites offered through the International Student Exchange Program.

GROUP STUDY ABROAD. Students may participate in group study in summer, semester, or full-year programs. The University offers summer programs in these locations: French language at the Catholic

Institute of Paris and the College International in Cannes, France; Italian language and area studies at the Lorenzo de Medici Institute in Florence, Italy; German language at the Goëthe Institute in Munich, Germany; Spanish language at the University of Alicante, Spain; accountancy with The University of Mississippi School of Accountancy in London; and internships in London and in Costa Rica. In Belize and Costa Rica, biology credit may be earned in a field-study program, and Spanish language classes may be taken in the summer in Querétaro, Mexico, and San José, Costa Rica. Semester programs include The University of Mississippi Mexican Studies program in Querétaro, Mexico; a program in Jena, Germany; a semester program in Montpellier, France; one at the Kodaly Institute in Hungary; and one at the University of Valencia, Spain, as well as Deusto University in Bilbao, Spain. Study abroad opportunities are rapidly increasing, so check with the office for all current programs.

INDEPENDENT STUDY. With prior approval of their dean, the department responsible for the area of the project, and the Study Abroad Office, students may undertake independent study projects in foreign cultures or foreign institutions. Students desiring to engage in independent study abroad must consult the Study Abroad Office before participation.

DIVISION OF OUTREACH AND CONTINUING EDUCATION

Timothy R. Angle, assistant provost for summer school and outreach • E.F. Yerby Conference Center • (662) 915-7282 • outreach@olemiss.edu

The Division of Outreach and Continuing Education coordinates independent study (correspondence) and online courses, off-campus credit and noncredit professional development programs, and general-interest and youth-oriented activities. The Division has supervisory responsibility for the courses and programs offered through the University's off-site locations at Tupelo, Booneville, and Southaven.

ACADEMIC HONORS AND AWARDS

Recognition of Achievement • Scholarship is the chief goal of serious college students. The University attempts to stimulate and recognize high scholarly achievement in a number of ways. At the end of every semester and the summer session official HONOR ROLLS of undergraduate students are published. The bachelor's degree is awarded CUM LAUDE, MAGNA CUM LAUDE, and SUMMA CUM LAUDE to students with superior academic records. Details of these recognitions are given in the Academic Regulations chapter.

National Honor Societies • The University sponsors local chapters of national honor societies that recognize and promote good scholarship. ALPHA LAMBDA DELTA and PHI ETA SIGMA admit freshmen with grade-point averages of at least 3.5 during either semester. GAMMA BETA PHI recognizes scholarship for upper-classmen. GOLDEN KEY recognizes academic achievement for juniors and seniors and asks members to participate in campus and community service activities. The following societies recognize scholarship and leadership: LAMBDA SIGMA for sophomores; MORTAR BOARD for juniors and seniors; and OMICRON DELTA KAPPA for juniors, seniors, law and graduate students, faculty, and alumni.

The national honor society of PHI KAPPA PHI recognizes scholarship in all areas of academic endeavor, and election by the University's chapter signifies the highest scholastic achievement. The University of Mississippi chapter admits to membership juniors and seniors of superior scholastic attainment, not to exceed 10 percent of any graduating class.

Professional and Departmental Honor Societies • Most of the professional and departmental honor societies have scholastic qualifications for membership.

Alpha Delta Sigma (advertising)	Phi Alpha Delta (law)
Alpha Epsilon Delta (pre-med)	Phi Alpha Theta (history)
Alpha Kappa Delta (sociology)	Phi Beta Kappa (liberal arts and sciences)
Alpha Phi Omega (service)	Phi Beta Lambda (business)
Alpha Psi Omega (theatre)	Phi Beta Lambda (economics)
Alpha Theta Phi	Phi Delta Kappa (leadership)
Arnold Air Society (aerospace)	Phi Delta Phi (law)
Beta Alpha Psi (accountancy)	Phi Gamma Nu (business)
Beta Beta Beta (biology)	Phi Mu Alpha (music)
Beta Gamma Sigma (business)	Phi Sigma Tau (philosophy)
Beta Lambda Epsilon (law enforcement)	Pi Delta Phi (French)
Chi Epsilon (civil engineering)	Pi Mu Epsilon (mathematics)
Delta Phi Alpha (German)	Pi Sigma Alpha (political science)
Delta Pi Epsilon (business education)	Pi Sigma Epsilon (business)
Delta Sigma Pi (business)	Rho Chi (pharmacy)
Delta Theta Phi (law)	Scabbard And Blade (military science)
Dobro Slovo (Russian/Slavic)	Sigma Alpha Eta (communicative disorders)
Epsilon Gamma Epsilon (business)	Sigma Alpha Iota (women in music)
Eta Kappa Nu (electrical engineering)	Sigma Delta Chi (Society of Professional Journalists)
Eta Sigma Phi (classics)	Sigma Delta Pi (Spanish)
Gamma Beta Phi (service)	Sigma Gamma Epsilon (geology)
Iota Beta Sigma (radio and television)	Sigma Tau Delta (English)
Kappa Delta Pi (education)	Sigma Xi (research)
Kappa Kappa Psi (men in band)	Tau Alpha Chi (accountancy)
Kappa Omicron Nu (family and consumer sciences)	Tau Beta Pi (engineering)
Kappa Pi (art)	Tau Beta Sigma (music)
Lambda Sigma (journalism)	Tau Kappa Alpha (forensics)
National Physics Honorary	Upsilon Pi Epsilon
Omicron Delta Epsilon (economics)	Women in Communications (journalism)

Awards For Academic Achievement • A number of prizes, medals, and other awards are given to students who demonstrate outstanding academic ability. Among these, the Taylor Medal, presented at the annual Honors Day ceremony in early April, and the Phi Kappa Phi Commencement Award represent the highest scholastic achievement.

MARCUS ELVIS TAYLOR MEMORIAL. Dr. William A. Taylor of Booneville, Mississippi, in June 1904, founded the Marcus Elvis Taylor Memorial at the University "out of affection and regard for the memory of his son, the late Dr. Marcus Elvis Taylor, an honored alumnus of the University of the class of 1871, and out of benevolent regard and good will for the youth of the state and the interest and work of The University of Mississippi, and for the encouragement of meritorious scholarship and deportment." This memorial fund provides scholarship medals to students nominated for outstanding scholarship in a particular field combined with superior work in all other subjects. The number of Taylor Medals awarded annually may not be more than 1 percent of the student body. Each medal has engraved on it the name of the nominating department.

PHI KAPPA PHI COMMENCEMENT AWARD. The University of Mississippi Chapter of the National Honor Society of Phi Kappa Phi recognizes at each commencement the graduating senior who has achieved the highest four-year scholastic average in the University.

FRESHMEN

The ESTELLA G. HEFLEY AWARD was established during the period 1972-1975 by members of Alpha Lambda Delta to perpetuate the memory of Dean Emeritus Estella G. Hefley by honoring outstanding freshmen.

The LAMBDA SIGMA SOCIETY AWARD was established during 1977-1978 by members of the Lambda Sigma Society for the purpose of awarding a scholarship during the spring semester to a freshman demonstrating an outstanding record of achievement during the first semester at the University.

SOPHOMORES

The MORTAR BOARD OUTSTANDING SOPHOMORE AWARD is awarded to an outstanding sophomore based on the criteria of scholarship, leadership, and service.

JUNIORS

The OMICRON DELTA KAPPA OUTSTANDING WOMAN OF THE JUNIOR CLASS honors, with a certificate and a \$100 award, a woman of the junior class who has excelled in scholarship (with at least a 3.00 GPA), leadership, and service to the University community.

SENIORS

KAPPA TAU ALPHA, a national honorary award, is presented to the graduating senior member who has the highest ranking grade-point average.

GOVERNMENT

WILLIAM JENNINGS BRYAN MEDAL. In 1898 William Jennings Bryan donated to the University a sum to be invested, the interest from which should be used each year in awarding a medal to that student who may present the best essay or oration on the science of government. The rules governing the award of this medal are on file in the Chancellor's Office.

WRITING

The CINDY KREISER WRITING AWARD was established in 1990 in memory of the late Cynthia Kreiser. The award is made annually to the freshman student who exhibits outstanding writing skills as determined by the English faculty.

SIGMA TAU DELTA AWARDS. Sigma Tau Delta, the English honorary society, annually awards \$50 for the best poetry and \$50 for the best prose submitted in a campuswide competition. The entries are judged by a team of three members of the society.

The ELLA SOMERVILLE FICTION AWARD and the ELLA SOMERVILLE POETRY AWARD were established in 1984 by Richard and Lisa Howorth, owners of Square Books, in memory of Richard's aunt, who was a cultural arbiter in Oxford for many years. The awards go to the University students, undergraduate or graduate, who demonstrate the most talent in creative writing.

College of Liberal Arts

AIR FORCE

AEROSPACE STUDIES AIR FORCE ASSOCIATION AWARD. This award is presented to an outstanding AFROTC senior. The selection is made by the professor of aerospace studies on the basis of a positive attitude toward AFROTC, personal appearance, and officer potential.

AMERICAN DEFENSE PREPAREDNESS ASSOCIATION AWARD. The medal, ribbon, and certificate are presented to the outstanding AS 400 cadet who ranks in the upper 50 percent of the graduating class and ranks in the upper 20 percent of the AS 400 class.

AMERICAN VETERANS AWARD. A medal pendant and a ribbon are awarded to an AS 200 cadet for positive attitude, personal appearance, outstanding personal attributes, and officer potential.

ARMED FORCES COMMUNICATIONS AND ELECTRONICS ASSOCIATION AWARD. The AFCEA award consists of an honor certificate; a one-year free membership in the AFCEA; a one-year subscription to the AFCEA journal, Signal; and AFCEA Ribbon. The award recognizes an outstanding AS 300 cadet who has demonstrated leadership and achievement in academics.

DAUGHTERS OF THE AMERICAN REVOLUTION AWARD. The award consists of a gold medal and ribbon presented to an outstanding AS 400 cadet who demonstrates qualities of dependability and good character, adherence to military discipline, leadership ability, and a fundamental and patriotic understanding of the importance of ROTC training.

DAUGHTERS OF FOUNDERS AND PATRIOTS OF AMERICA AWARD. The award consists of a gold pendant and ribbon presented to an outstanding AS 200 cadet who demonstrates qualities of dependability, character, military discipline, leadership, patriotism, and an understanding of the importance of the American heritage.

GENERAL DYNAMICS AIR FORCE ROTC CADET AWARD. An award for leadership is made each year to a second-year AFROTC student with a positive attitude toward scholastic work and service in the U.S. Air Force.

MILITARY ORDER OF WORLD WARS MEDAL. This is an award for improvement in both military and scholastic grades during the year and a demonstrated desire to serve the United States. The award is presented annually by the professor of aerospace studies.

SONS OF THE AMERICAN REVOLUTION AWARD. The medal and ribbon are awarded to a student enrolled in the first year of ROTC. It is presented to the student who exhibits a high degree of merit with respect to leadership qualities and military bearing.

ANTHROPOLOGY

The FRANCES W. JAMES MEMORIAL AWARD is given to an outstanding senior in anthropology.

ART

OUTSTANDING ART STUDENT AWARD is awarded by the faculty of the Department of Art to a student who exemplifies leadership qualities and the initiative and potential for growth and development as an artist, designer, or art historian.

STUDENT ART ASSOCIATION AWARD. Members of the association present an award to the student who is regarded as having best exemplified the goals of those pursuing art as a career.

BIOLOGY

FRANK MONTGOMERY HULL AWARD IN BIOLOGY was established in 1972 to honor a student who, in the opinion of the biology faculty, excels in that field.

CLASSICS

ETA SIGMA PHI PRIZE IN GREEK. Established in 1987, the award is made each year to the outstanding student in Greek as judged by the classics faculty.

ETA SIGMA PHI PRIZE IN LATIN. Established in 1987, the award is made each year to the outstanding student in Latin as judged by the classics faculty.

ECONOMICS

The OUTSTANDING LIBERAL ARTS ECONOMICS STUDENT AWARD is given to a student selected by the economics faculty for outstanding scholarship.

ENGLISH

The DRANE LESTER MEMORIAL PRIZE, established in 1943 through a trust fund by Mr. L.B. Lester of Batesville, Mississippi, as a memorial to his son, Drane Lester, consists of \$200 in cash to be awarded annually for excellence in undergraduate work in the Department of English. The award is made by the professional staff of the department.

GENDER STUDIES

SARAH ISOM CENTER AWARD for best undergraduate research paper on the subject of a woman or women.

HISTORY

HISTORY RESEARCH AWARD. An award is presented annually by the faculty of the Department of History to the undergraduate student who presents to the faculty the outstanding research paper during the previous calendar year.

The JOHN W. ODOM MEMORIAL PRIZE IN SOUTHERN HISTORY is named in honor of Mr. Odom of DeSoto County, Mississippi, who was a benefactor of the University. The purpose of the prize is to recognize outstanding scholarship in the field of Southern history. The prize is awarded annually to the student at the University who presents the best paper dealing with a topic in Southern history, which has been selected by the award committee. The rules governing this contest are on file in the Office of the Dean of the College of Liberal Arts.

MATHEMATICS

The ALFRED HUME MEMORIAL PRIZE, established in 1960, is presented each year to the senior student majoring in mathematics who has the best four-year record in the subject. The recipient, chosen by the mathematics faculty, is presented with a year's membership in the Mathematical Association of America.

The IRBY C. NICHOLS MEMORIAL AWARD IN MATHEMATICS, established in 1968 by Mrs. Nichols, is given annually to the student excelling in the first full calculus sequence.

The PI MU EPSILON AWARD is presented annually to the outstanding member of The University of Mississippi Chapter of Pi Mu Epsilon honorary mathematical fraternity, based on service and performance during the academic year. The recipient receives a five-year subscription to *the National Pi Mu Epsilon Journal*.

MILITARY SCIENCE

AMERICAN DEFENSE PREPAREDNESS ASSOCIATION. The medal and ribbon are presented to the senior cadet who most demonstrates superior performance in the areas of scholarship, campus activities, military skill, and leadership.

AMERICAN VETERANS OF WORLD WAR II, KOREA, AND VIETNAM AWARD. The medal and ribbon are presented to an advanced course cadet for diligence in the discharge of duty and the willingness to serve both God and country.

The ASSOCIATION OF THE UNITED STATES ARMY presents an award for academic excellence in the Army Reserve Officers Training Corps and for excellence in the study of military history.

DEPARTMENT OF THE ARMY SUPERIOR CADET AWARDS. A medal and certificate are presented to the outstanding students of military science enrolled in the respective classes of the Department of Military Science.

GEORGE C. MARSHALL ROTC AWARD. The award consists of a certificate, a copy of the official biography of Gen. Marshall, and an opportunity to attend a National Security Conference sponsored by the foundation. It is presented to the most outstanding senior cadet.

SONS OF THE AMERICAN REVOLUTION AWARD. The medal and ribbon are awarded to the student enrolled in the first year of ROTC who exhibits a high degree of merit with respect to leadership qualities and military bearing.

VETERANS OF FOREIGN WARS OF THE USA AWARD. The medal and ribbon are presented to the junior and senior cadets who have demonstrated achievement and concentrated effort in military and academic subjects.

MODERN LANGUAGES

FRENCH, GERMAN, AND SPANISH GOVERNMENT PRIZES are books given annually by the consul-general at Atlanta and New Orleans. They are awarded to four students in each language who are recognized by the professional staff of the Department of Modern Languages as having achieved the highest degree of excellence in the study of French, German, and Spanish. There are also four prizes in RUSSIAN.

MUSIC

The MARK HOFFMAN PIANO PRIZE was established in 1978 by members of the family of Mark Hoffman to recognize the outstanding piano student as selected by the music faculty. A prize of \$100 is awarded each year.

MUSIC EDUCATION AWARD

MUSIC HISTORY/THEORY AWARD

OUTSTANDING GRADUATE AND UNDERGRADUATE PIANISTS

OUTSTANDING GRADUATE STUDENT

OUTSTANDING INSTRUMENTALISTS

OUTSTANDING OPERA STUDENT

The OUTSTANDING UNDERGRADUATE MUSIC STUDENT is chosen by the music faculty on the basis of outstanding scholarly and musical ability.

OUTSTANDING UNDERGRADUATE STUDENT

OUTSTANDING VOCALISTS

PI KAPPA LAMBDA. Recognition of student and faculty inductees in the Music Honor Society of Pi Kappa Lambda.

SIGMA ALPHA IOTA AWARD IN MUSIC. A certificate of merit is awarded annually by this professional music society to the graduating senior most outstanding for achievement in music.

SIGMA ALPHA IOTA AWARDS. Honor certificate for academic achievement among SAI college members; College Honor Award for outstanding musicianship, scholarship, and fraternity service.

NAVAL SCIENCE

The ARMED FORCES COMMUNICATIONS AND ELECTRONICS ASSOCIATION GOLD MEDAL AWARD AND CERTIFICATE are awarded to the most outstanding NROTC senior majoring in electrical engineering, electronics, communications engineering, or technical photography.

CALOWAY MEMORIAL AWARD. Established in 1974 by the family and widow of Lieutenant Grover Randolph Caloway, this award is made to the outstanding NROTC senior aspiring to be a naval aviator; the award is based on aptitude and motivation for naval science and naval aviation as demonstrated in midshipman training.

GAFFORD-DUBOIS AWARD. An officer's sword is presented to the top graduating midshipman, Navy or Marine Corps, by retired Navy Reserve Captain Gerald A. Gafford.

HOUGHLAND MEMORIAL PLAQUE. The name of the graduating midshipman of the Naval Reserve Officers Training Corps who is judged most worthy on the basis of character, leadership, and scholarship is entered annually on a bronze plaque in Guyton Hall. This plaque was donated by Mr. and Mrs. Maurice F. Barr of New Orleans in memory of the late Horace J. Houghland, who graduated from the University in 1921.

MARINE CORPS ASSOCIATION AWARD. A plaque and one-year membership are presented to the most outstanding Marine-Option NROTC graduate.

MILITARY ORDER OF THE WORLD WARS AWARDS are presented to the most outstanding member of each midshipman class. A gold medal is presented to the junior, a silver medal to the sophomore, and a bronze medal to the freshman.

NATIONAL SOJOURNERS AWARD FOR AMERICANISM. This award is presented to the midshipman who has contributed the most to encouraging and demonstrating Americanism.

NAVAL INSTITUTE AWARD. A three-year membership in the Naval Institute is presented to the most outstanding graduating scholarship midshipman, college program midshipman, Marine Enlisted Commissioning Education Program Student, and Navy Enlisted Commissioning Program Student.

RESERVE OFFICERS ASSOCIATION AWARDS. A ribbon and certificate are awarded to the senior, junior, sophomore, freshman, and ECP/MECEP NROTC student attaining the highest aptitude for naval service.

RETIRED OFFICERS ASSOCIATION AWARD. A medal, ribbon, and certificate are presented to the junior midshipman demonstrating the highest standards of leadership, discipline, character, and citizenship.

SECNAV DISTINGUISHED MIDSHIPMAN GRADUATE. This award goes to the top graduating scholarship NROTC senior.

PHILOSOPHY

THE THOMAS BLANTON AWARD. This award was established by Thomas Blanton. It gives a cash prize to the best essays or papers demonstrating skills in logic and critical thinking, as determined by the philosophy faculty.

POLITICAL SCIENCE

PI SIGMA ALPHA SENATOR'S AWARD FOR EXCELLENCE IN THE STUDY OF POLITICS honors U.S. senators who have been graduates of The University of Mississippi. A reference book is presented to a senior Pi Sigma Alpha member on the basis of scholarship, departmental activities, and writing.

PI SIGMA ALPHA GOVERNOR'S AWARD FOR EXCELLENCE IN THE STUDY OF POLITICS honors Mississippi governors who have been graduates of The University of Mississippi. A book scholarship is presented to a junior Pi Sigma Alpha member on the basis of scholarship and departmental activities.

PSYCHOLOGY

UNDERGRADUATE PSYCHOLOGY RESEARCH AWARD. The undergraduate student judged to have written the best research or review paper in psychology is presented a letter and a certificate.

ROTC PROGRAMS

AMERICAN LEGION AWARDS. An award for general military excellence and one for scholarship are presented to outstanding students in each class in each of the ROTC units.

CHANCELLOR'S AWARD. A certificate of commendation from the chancellor is presented to the graduating seniors of each ROTC unit who rank first in scholarship and leadership.

DAUGHTERS OF FOUNDERS AND PATRIOTS OF AMERICA. The medal is awarded to the basic course student who demonstrates the ideals of patriotism.

DAVID REESE CHAPTER OF THE DAUGHTERS OF THE AMERICAN REVOLUTION. A suitably inscribed medal is presented each year to students with the highest standing in their respective classes in AFROTC, AROTC, and NROTC.

MILITARY ORDER OF THE WORLD WARS AWARD. A medal, ribbon, and certificate are presented to a freshman, sophomore, and junior ROTC student. The award is given for overall improvement in military and scholastic studies during the school year.

NATIONAL SOJOURNERS AWARD. A medal and ribbon are presented to the sophomore ROTC student in the top 25 percent of his/her academic class who contributes most to the encouragement of Americanism at the University.

RESERVE OFFICER'S ASSOCIATION AWARD. A certificate is presented to one member of the freshman, sophomore, junior, and senior ROTC classes. The award is given to a student in the top 10 percent of his/her class who has demonstrated outstanding qualities of leadership, moral character, and high aptitude for military service.

RETIRED OFFICERS ASSOCIATION AWARD. A medal, ribbon, and certificate are presented to an ROTC cadet in his/her junior year who shows exceptional potential for military leadership and academic excellence.

SOCIOLOGY

The JULIEN TATUM AWARD, established in 1981 by the friends and colleagues of the late Dr. Tatum, former University professor and chair of the Department of Sociology and Anthropology, recognizes the outstanding graduating senior in sociology.

SOUTHERN STUDIES

COTERIE AWARD IN SOUTHERN STUDIES

GRAY AWARD. In honor of Mr. and Mrs. Homer Gray, Jr., patrons of the Center for the Study of Southern Culture, a prize of \$100 and a certificate are presented annually to an undergraduate student who has demonstrated excellence and outstanding scholarship in the field of Southern studies. Selection for the award is made on the basis of research papers written by students in Southern studies classes; a committee of three judges appointed by the dean of the College of Liberal Arts reviews the papers annually and selects the winner.

Patterson School of Accountancy

ACCOUNTANCY ALUMNI CHAPTER ACADEMIC ACHIEVEMENT AWARDS are awarded to the six juniors in the School of Accountancy with the highest GPAs.

The BETA ALPHA PSI AWARD is awarded to an outstanding senior or fifth-year accountancy student who makes a significant contribution to Beta Alpha Psi.

The FEDERATION OF SCHOOLS OF ACCOUNTANCY OUTSTANDING STUDENT AWARD is awarded to an outstanding fifth-year accountancy student selected by the School of Accountancy faculty.

The INSTITUTE OF MANAGEMENT ACCOUNTANTS AWARD is awarded to an outstanding fifth-year accountancy student who is a member of the student chapter of the institute.

The MISSISSIPPI SOCIETY OF CERTIFIED PUBLIC ACCOUNTANTS OUTSTANDING SENIOR AWARD is awarded to an outstanding senior in the School of Accountancy who is a resident of Mississippi.

School of Applied Sciences

FAMILY AND CONSUMER SCIENCES

FAMILY AND CONSUMER SCIENCES SENIOR SCHOLASTIC AWARD.

The FAMILY AND CONSUMER SCIENCES OUTSTANDING SENIOR AWARDS are given in DIETETICS AND NUTRITION, MERCHANDISING, HOSPITALITY MANAGEMENT, and HUMAN DEVELOPMENT.

KAPPA OMICRON NU SOPHOMORE AWARD.

HEALTH, EXERCISE SCIENCE AND RECREATION MANAGEMENT

THE J. GORDON McMURRAY UNDERGRADUATE ACHIEVEMENT AWARD is given to an outstanding student in park and recreation management as chosen by the park and recreation management faculty.

THE J. ROBERT BLACKBURN UNDERGRADUATE ACHIEVEMENT AWARD is given to an outstanding student in exercise science as chosen by the exercise science faculty.

SOCIAL WORK

OUTSTANDING SOCIAL WORK STUDENT ACHIEVEMENT AWARD. Established in 1978, the award is given to the senior student who, in the opinion of the social work faculty, most demonstrates professional commitment and promise.

School of Business Administration

BANKING AND FINANCE

The OUTSTANDING STUDENT IN BANKING AND FINANCE AWARD recognizes outstanding scholarship by a student in banking and finance.

ECONOMICS

The OUTSTANDING STUDENT IN ECONOMICS AWARD recognizes outstanding scholarship in economics.

INSURANCE AND RISK MANAGEMENT

The OUTSTANDING STUDENT IN INSURANCE AND RISK MANAGEMENT AWARD recognizes outstanding scholarship by a student in insurance and risk management.

MANAGEMENT

The OUTSTANDING MANAGEMENT STUDENT AWARD, established in 1989, recognizes outstanding scholarship by a senior management student.

MANAGEMENT INFORMATION SYSTEMS

The OUTSTANDING MANAGEMENT INFORMATION SYSTEMS AWARD, established in 1989, recognizes outstanding scholarship by a senior management information systems student.

MANAGERIAL FINANCE

THE OUTSTANDING STUDENT IN MANAGERIAL FINANCE AWARD recognizes outstanding scholarship by a student majoring in managerial finance.

MARKETING

PHIL B. HARDIN FOUNDATION MARKETING AWARD. The Phil B. Hardin Chair of Marketing presents an award each spring to the outstanding graduating senior in marketing who is distinguished in scholarship and in extracurricular activities related to marketing.

The OUTSTANDING MARKETING STUDENT AWARD, established in 1989, recognizes outstanding scholarship by a senior marketing student.

PETROLEUM LAND MANAGEMENT

The OUTSTANDING STUDENT IN PETROLEUM LAND MANAGEMENT AWARD recognizes outstanding scholarship by a student in petroleum land management.

REAL ESTATE

The OUTSTANDING STUDENT IN REAL ESTATE AWARD recognizes outstanding scholarship by a student in real estate.

School of Education

The FORREST W. MURPHY AWARD was established by friends and former students of the late Dr. Murphy to recognize annually the outstanding student in educational administration.

KAPPA DELTA PI AWARD. The Zeta Eta Chapter of Kappa Delta Pi national honor society in education makes an award each semester to the graduating senior in the School of Education who stands highest in scholarship.

CURRICULUM AND INSTRUCTION

The ROBERT W. PLANTS STUDENT TEACHING AWARDS are given each year to the outstanding student teacher in ELEMENTARY EDUCATION, SPECIAL EDUCATION, and SECONDARY EDUCATION.

School of Engineering

MISSISSIPPI ENGINEERING SOCIETY AWARD. The society recognizes each year the outstanding senior in the school with the presentation of a plaque and certificate at its annual meeting. The student's name is engraved on a plaque located in the lobby of Carrier Hall. The award is made on the basis of scholarship, integrity, activities, and contribution to the program.

AERONAUTICS AND ASTRONAUTICS

The AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS presents two awards to student members. The Outstanding Achievement Award is presented for outstanding performance in academic activities, as well as student branch activities. The Lecture Award is given for presenting the best technical paper at a student branch meeting during the year. Awardees receive certificates as well as honoraria which are one year's prepaid associate membership in the American Institute of Aeronautics and Astronautics.

CHEMICAL ENGINEERING

AMERICAN INSTITUTE OF CHEMICAL ENGINEERING AWARD—OUTSTANDING JUNIOR. This award is given each year to the outstanding junior as evaluated by the chemical engineering faculty.

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, MEMPHIS SECTION, AWARD. An award is presented each year by the Memphis Section of the American Institute of Chemical Engineers, jointly with the Department of Chemical Engineering, to the senior student in chemical engineering judged to be the most outstanding in scholastic attainment and in leadership. This award consists of a certificate and an associate membership for one year in the institute. The name of the recipient is engraved on a plaque in the department office.

The AMERICAN INSTITUTE OF CHEMISTS AWARD IN CHEMICAL ENGINEERING is awarded annually to the senior in chemical engineering with the most outstanding performance in chemistry courses as evaluated by the chemical engineering faculty.

The OUTSTANDING CHEMICAL ENGINEERING FRESHMAN AWARD is awarded annually to an outstanding freshman selected by the Department of Chemical Engineering.

The OUTSTANDING SOPHOMORE IN CHEMICAL ENGINEERING AWARD is awarded annually to an outstanding sophomore selected by the Department of Chemical Engineering.

CIVIL ENGINEERING

AMERICAN SOCIETY OF CIVIL ENGINEERS, MISSISSIPPI SECTION, AWARD. A certificate of merit and a prize are awarded annually to the outstanding senior in the student chapter of the American Society of Civil Engineers. The prize consists of engineering handbooks, a calculator, or other engineering equipment. The award is made to the student who, in the opinion of the civil engineering faculty, best exemplifies the qualities of the successful engineer, including scholarship, character, and general ability.

CHI EPSILON OUTSTANDING CIVIL ENGINEERING FRESHMAN AWARD. This award is given to the freshman civil engineering student with the highest grade-point average. To qualify, a student must be making reasonable progress toward a degree in civil engineering and must possess a respectable grade-point average. The award consists of a plaque and a cash award; the student's name will be engraved on a permanent plaque displayed in a prominent place in the Department of Civil Engineering.

CHI EPSILON CIVIL ENGINEERING SENIOR SCHOLAR AWARD. This award is given to the senior civil engineering student having the highest grade-point average. The award consists of a plaque and a cash award; the student's name will be engraved on a permanent plaque displayed in a prominent place in the Department of Civil Engineering.

COMPUTER SCIENCE

The RICHARD E. GROVE AWARD is awarded to a computer science major on the basis of service.

The OUTSTANDING COMPUTER SCIENCE FRESHMAN, SOPHOMORE, JUNIOR, and SENIOR AWARDS are awarded on the basis of scholarship.

ELECTRICAL ENGINEERING

ETA KAPPA NU OUTSTANDING ELECTRICAL ENGINEERING STUDENT AWARD. This award is presented each year by the Eta Kappa Nu Electrical Engineering Honor Society to the junior or senior electrical engineering major with the highest scholastic standing.

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS AWARD. The institute makes two awards annually to student members of The University of Mississippi branch. The Outstanding Student Member Award is made to the student who has made the greatest contribution to the activities of the branch and to the objectives of the institute and consists of a certificate. The other goes to the winner of an annual prize paper competition held by the student branch and is an expense-paid trip to the annual regional student meeting of the institute.

GEOLOGY AND GEOLOGICAL ENGINEERING

SIGMA GAMMA EPSILON AWARD. The Department of Geology and Geological Engineering awards a prize to the outstanding senior majoring in geology or geological engineering. The award is made on the basis of character, ability, and scholastic standing.

MECHANICAL ENGINEERING

AMERICAN SOCIETY OF MECHANICAL ENGINEERS AWARD. The student chapter of the American Society of Mechanical Engineers awards a prize to the senior majoring in mechanical engineering who is distinguished by character, ability, and scholastic standing.

JOHN A. FOX AWARD. This award is given to honor Dr. Fox, chair emeritus and professor emeritus of mechanical engineering. It is presented annually to a junior or senior majoring in mechanical engineering selected by the entire junior and senior classes and is based on character, leadership, and scholarship.

DISTINGUISHED FACULTY

Frederick A.P. Barnard Distinguished Professorships • Frederick A.P. Barnard Distinguished Professors are recognized for their excellence and innovation in teaching and research. The following Barnard Professors are located on the Oxford campus:

HENRY E. BASS, physics and astronomy; ALICE M. CLARK, pharmacognosy; WINTHROP D. JORDAN, history; WILLIAM F. SHUGHART II, economics; JAMES G. VAUGHAN, mechanical engineering; SAM SHU-YI WANG, mechanical engineering.

Faculty Achievement Award • In 1985, the Burlington Northern Award was established to honor superior teaching faculty who were also active researchers. This award has now evolved into the Faculty Achievement Award, which is given annually to recognize unusual effort in the classroom, involvement with students, and active scholarship. The following recipients of the award are currently on the faculty:

MITCHELL A. AVERY, medicinal chemistry; RONALD F. BORNE, medicinal chemistry; VICTORIA BUSH, business administration; ALICE M. CLARK, pharmacognosy; MAURICE R. EFTINK, chemistry; DALE L. FLESHER, accountancy; TONYA K. FLESHER, accountancy; CHARLES L. HUSSEY, chemistry; MARY JEANNE KALLMAN, psychology; IVO KAMPS, English; DEBORAH S. KING, pharmacy practice; ELLEN LACKEY, mechanical engineering; JOHN H. O'HAVER, chemical engineering; JOHN M. RIMOLDI, medicinal chemistry; JEFFREY A. ROUX, mechanical engineering; CHARLES E. SMITH, electrical engineering; WILLIAM A. STATON, III, mathematics; JAMES G. VAUGHAN, mechanical engineering; SCOTT J. VITELL, JR., marketing; IRVING WADE WATERS, pharmacology; W. MARK WILDER, accountancy; JOHN W. WINKLE III, political science.

Elsie M. Hood Outstanding Teacher Award • The Elsie M. Hood Outstanding Teacher of the Year for the University is selected from nominations submitted by students, alumni, and faculty. The following recipients of the award are currently on the faculty:

GUTHRIE T. ABBOTT, law; BILLY A. BARRIOS, psychology; RONALD F. BORNE, medicinal chemistry; RON G. DALE, art; JAMES W. DAVIS, accountancy; TONYA K. FLESHER, accountancy; VAUGHN L. GRISHAM, sociology; GLORIA KELLUM, communicative disorders; COLBY H. KULLMAN, English; R. PHIL MALONE, finance; DANIEL L. MATTERN, chemistry; NATALIE SCHROEDER, English; RONALD A. SCHROEDER, English; WILLIAM A. STATON, mathematics; MORRIS H. STOCKS, accountancy; KENNETH J. SUFKA, psychology; JAMES G. VAUGHAN, mechanical engineering; I. WADE WATERS, pharmacology; ROBERT A. WEEMS, law; JOHN W. WINKLE, political science.

Teaching Awards in the College and Schools • The College and schools honor their outstanding teachers annually. Recipients of these awards who are currently on the Oxford campus faculty are listed below.

College of Liberal Arts • DONALD L. DYER, modern languages; BENJAMIN F. FISHER IV, English; SAMIR A. HUSNI, journalism; EDMUND D. KEISER, biology; COLBY H. KULLMAN, English; WILLIAM F. LAWHEAD, philosophy; DANIEL L. MATTERN, chemistry; TALMAGE J. REID, mathematics; SHEILA L. SKEMP, history; DOUGLASS SULLIVAN-GONZALEZ, history; ETHEL YOUNG-MINOR, English.

Cora Lee Graham Outstanding Teacher of Freshmen (Liberal Arts) • GERARDUS BUSKES; mathematics; WALTER E. CLELAND, JR., chemistry; GARY R. GASTON, biology; HANS-JÜRGEN J. GAYCKEN, modern languages; KEES GISPEN, history; PAUL K. LAGO, biology; FREDERICK LAURENZO, history; KATHRYN MCKEE, English; TIMOTHY NORDSTROM, political science; JON F. PARCHER, chemistry; HOLLY T. REYNOLDS, political science; WILLIAM D. SCOTT, chemistry; JEFFREY R. WATT, history; DANIEL E. WILLIAMS, English.

School of Accountancy • JUDITH CASSIDY, JAMES W. DAVIS, TONYA K. FLESHER, DAVE L. NICHOLS, MORRIS H. STOCKS, W. MARK WILDER.

School of Business Administration • WILLIAM F. CHAPPELL, economics; JOHN R. CONLON, economics; SUMALI J. CONLON, management information systems; KAREN EPERMANIS, finance; CHARLES A. INGENE, marketing; JOSEPH G.P. PAOLILLO, management; BRIAN J. REITHEL, management information systems; WILLIAM SHUGHART II, economics; DENNIS S. TOSH, JR., finance.

School of Education • SARAH BLACKWELL, SONJA BURNHAM, MARTHA CHAMBLESS, PEGGY EMERSON, SIDNEY ROWLAND, BOBBIE SMOTHERS, ANN HARLAND WEBSTER.

School of Engineering • ATEF Z. ELSHERBENI, electrical engineering; ALLEN W. GLISSON, JR., electrical engineering; AHMED A. KISHK, electrical engineering; ELLEN LACKEY, mechanical engineering; JOHN H. O'HAVER, chemical engineering; JEFFREY A. ROUX, mechanical engineering; CHARLES E. SMITH, electrical engineering; JAMES G. VAUGHAN, mechanical engineering; S. SHU-YI WANG, mechanical engineering.

School of Law • GUTHRIE T. ABBOTT; DEBORAH H. BELL; WILLIAM M. CHAMPION; GEORGE C. COCHRAN; JOHN M. CZARNETZKY; KAREN O. GREEN; ROBERT C. KHAYAT; ROBERT A. WEEMS.

School of Pharmacy • DONNA BINGHAM, pharmacy practice; RONALD F. BORNE, medicinal chemistry; ALICIA S. BOULDIN, pharmacy administration; BRIAN CRABTREE, pharmacy practice; SHARON DICKEY, pharmacy practice; KRISTIE M. GHOLSON, pharmacy practice; CAROL R. NEELY, pharmacy practice; BUDDY OGLETREE, pharmacy practice; GARY D. THEILMAN, pharmacy practice; I. WADE WATERS, pharmacology; NOEL E. WILKIN, pharmacy administration; MARVIN C. WILSON, pharmacology.

Researcher Awards in the Schools • Several of the schools also recognize an outstanding researcher annually. Recipients of these awards who are currently on the Oxford campus faculty are listed below.

School of Accountancy • DALE L. FLESHER, TONYA K. FLESHER, DAVE L. NICHOLS, MORRIS H. STOCKS, W. MARK WILDER.

School of Business Administration • MILAM W. AIKEN, management information systems; BAHRAM ALIDAEI, management information systems; WILLIAM SHUGHART II, economics; DARREN TREADWAY, management; BONNIE F. VAN NESS, finance; SCOTT J. VITELL, JR., marketing.

School of Education • STANLEY BROWN, KERRY HOLMES, LEN KRAVITZ, MICHAEL PONTON, DAVID ROCK, JEAN SHAW, WILLIAM "JOE" SUMRALL.

School of Pharmacy • MITCHELL A. AVERY, medicinal chemistry; ALICE M. CLARK, Research Institute of Pharmaceutical Sciences; MAHMOUD A. ELSOHLI, Research Institute of Pharmaceutical Sciences; MARK T. HAMANN, pharmacognosy; CHARLES D. HUFFORD, pharmacognosy; IKHLAS A. KHAN, Research Institute of Pharmaceutical Sciences; LARRY WALKER, Research Institute of Pharmaceutical Sciences.

FUNDED FACULTY POSITIONS

College of Liberal Arts

KELLY GENE COOK CHAIR in Journalism.

MARGARET McLEAN COULTER PROFESSORSHIP in Chemistry.

HEDERMAN LECTURER in Journalism.

HOWRY PROFESSORSHIP in Faulkner Studies.

SALLY McDONNELL BARKSDALE CHAIR OF ETHNOMUSICOLOGY

OTTILIE SCHILLIG CHAIR in English Composition.

SOUTHERN WRITER IN RESIDENCE in English.

WILLIAM F. WINTER PROFESSORSHIP in History.

Patterson School of Accountancy

The ARTHUR ANDERSEN LECTURESHIPS are held by Dale L. Flesher and Tonya K. Flesher.

The KPMG LECTURESHIP is held by W. Mark Wilder.

The H. EUGENE PEERY CHAIR OF ACCOUNTANCY is held by James W. Davis.

The REYNOLDS PROFESSORSHIP is held by Rick Elam.

School of Business Administration

The MISSISSIPPI BANKERS ASSOCIATION CHAIR OF BANKING provides a leadership role for education in commercial banking. The chair is held by Robert O. Edmister.

PHIL B. HARDIN CHAIR OF MARKETING. Supported by the Phil B. Hardin Foundation, the chair provides a leadership role for Mississippi in applied and academic research in marketing. The chair is held by Scott J. Vitell, Jr.

MICHAEL S. STARNES PROFESSOR OF MANAGEMENT. Mr. Starnes endowed this professorship to support the teaching and research activities of an established scholar in ethics. This position is held by Robert K. Robinson.

MORRIS LEWIS, JR. LECTURESHIP. Friends and family members of Morris Lewis, Jr. endowed a marketing lectureship to support the teaching and research activities of an established marketing scholar. The professorship is held by Charles H. Noble IV.

ORTHO SMITH PROFESSOR OF ECONOMICS.

J. ED TURNER CHAIR OF REAL ESTATE. The chair was established in 1980 with partial endowment by the Mississippi Real Estate Commission to meet the need of the real estate profession for highly qualified individuals with in-depth understanding of real estate.

P.M.B. SELF, WILLIAM KING SELF, AND HENRY C. SELF CHAIR OF FREE ENTERPRISE. The chair was established in 1982 by a donation to the University by the Self family of Marks, Mississippi. The purpose of the chair is to further research on the proper role of government in the national economy, and to promote education in the principles and philosophies of the free-market system. The chair is held by Dwight D. Frink.

TOM B. SCOTT PROFESSOR OF FINANCIAL INSTITUTIONS. The chair was established in 1982 with the support of the members of the Mississippi Savings and Loan League. The objectives of the chair are to further research in areas associated with the savings and loan industry and to promote excellence in education. The professorship is held by Robert A. Van Ness.

ROBERTSON CHAIR OF INSURANCE. The holder of the Professorship provides leadership for the insurance and risk management curriculum and for faculty research in the areas of insurance and risk management. This professor coordinates student placement and scholarships, as well as special industry activities that are held on campus. The professorship is held by Larry A. Cox.

THE ROBERT M. HEARIN CHAIRS OF BUSINESS ADMINISTRATION. The Hearin Chairs support the teaching and research activities of established scholars in business. The chairs are held by Michael Harvey, Hearin Chair of Global Business, and by Charles A. Ingene, Hearin Chair of Marketing.

School of Law

The BUTLER, SNOW, O'MARA, STEVENS AND CANNADA LECTURESHIP is held by Robert A. Weems.

The LEONARD B. MELVIN LECTURESHIP is held by Richard L. Barnes.

The MISSISSIPPI DEFENSE LAWYERS ASSOCIATION DISTINGUISHED PROFESSORSHIPS are held by Deborah Hodges Bell, Karen O. Green, Michael H. Hoffheimer, and Ronald J. Rychlak.

The MITCHELL, McNUTT, THREADGILL, SMITH, AND SAMS LECTURESHIP is held by John M. Czarnetzky.

The JESSIE D. PUCKETT, JR., LECTURESHIPS are held by Charles H. Brower II, John M. Czarnetzky, Jack Wade Nowlin, and Larry R. Pittman.

The RAY AND LOUISE STEWART LECTURESHIP is held by Richard J. McLaughlin.

The JAMIE LLOYD WHITTEN CHAIR OF LAW AND GOVERNMENT is held by Samuel M. Davis.

Student Life, Activities, and Services

THE DIVISION OF STUDENT LIFE

Dr. Thomas Wallace, vice chancellor for student life • (662) 915-7705 • tdwallac@olemiss.edu

Dr. Larry Ridgeway, associate vice chancellor for student life • (662) 915-7705 • lridgewa@olemiss.edu

Sandra Crowe, assistant vice chancellor for student life • (662) 915-7705 • scrowe@olemiss.edu

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The central purposes of the Division of Student Life are facilitating student development and offering educational programs and services that stimulate the learning process. As a partner in the educational mission of the University, the student life professional promotes an environment conducive to growth and discovery. The Division of Student Life supports and complements the academic program through its commitment to the total development of students by contributing to their physical, intellectual, social/environmental, occupational, spiritual, and emotional growth.

ORIENTATION

Whitman Smith, director of orientation • 128 Martindale • (662) 915-1185 • whitman@olemiss.edu

The orientation program is designed to help students with their academic and social adjustments to the University. Informal talks by student leaders, faculty members, and administrators help new students become acquainted with University programs, services, regulations, and traditions. Students also are assisted in their selection of courses of study.

Orientation Conferences • New freshmen and transfer undergraduate students are **required** to attend an orientation conference prior to enrollment. These conferences are designed to help both students and parents with the transition to the University. The conferences include information sessions on housing, meal plan selection, campus safety, long-distance service, student organizations, career opportunities and services, and social opportunities on campus. Students are able to take care of details such as post office box rental, vehicle registration, and obtaining a campus ID card, and they are given the opportunity to discuss their schedules with faculty advisers and to preregister for their courses.

Orientation conferences are held at the beginning of each summer and again in August for incoming freshmen and transfer students. In addition, a spring orientation is offered in January for new students who begin at that time, and an early summer orientation is offered for transfer students in April. Orientation registration information is mailed to all newly admitted students prior to each orientation session, and additional information can be found online at www.olemiss.edu/orientation.

Graduate and law students should contact their individual departments for assistance.

New Student Convocation • New student convocation is the University's formal academic welcome to new students and is open to all new students and their families. It generally takes place on the weekend before classes begin, and includes academic processional, chancellor's address, introduction of deans, keynote address from faculty speaker, and academic charge to new students by the provost. Students will receive an invitation to the event in early August.

STUDENT HOUSING

Student Housing and Residence Life • William L. McCartney, director • Miller Hall • (662) 915-7328 • information@housing.olemiss.edu

Freshman Residence Requirements • Full-time single students who matriculate with freshman standing (fewer than 30 semester hours) are required to live on campus in the residence halls for one academic year (two semesters) or for one semester and two summer terms. Exceptions are made for married students and for those students who live with parents or legal guardians and commute. Married freshmen should submit a copy of their marriage license, and the parents or legal guardians of commuters should send a confirmation letter to the Department of Student Housing and Residence Life. Others who feel that special circumstances may entitle them to an exception should mail petitions to the Department of Student Housing and Residence Life, P.O. Box 1848, University, Mississippi 38677-1848.

Single freshmen (except commuters living with parents or guardians) who enroll and are found to be living off campus without a written authorized exemption from Student Housing and Residence Life may be subject to fines and/or other disciplinary actions up to and including dismissal from the University.

Residence Halls • The University maintains residence halls for unmarried freshmen, upper-class students, and graduate students. Residence halls available for students are Brown Hall, Crosby Hall, Hefley Hall, Martin Hall, Miller Hall, Stewart Hall, Deaton Hall, Falkner Hall, Garland-Hedleston-Mayes Halls, Kincannon Hall, Stockard Hall, Howry Hall, and Guess Hall.

All residence hall rooms are equipped with furniture and utilities essential to comfortable living, including telephone, cable TV, and Ethernet/Internet connections. Students must provide their own linens, pillows, and personal items such as radios, lamps, etc.

Room Reservation Procedure

1. The Department of Student Housing and Residence Life offers housing contracts (Residence Hall Agreements) for the academic year (fall, winter, and spring) for admitted students entering housing in the fall or spring, and summer contracts for students enrolled during the summer terms.
2. Applicants for fall and spring housing must submit a \$100 prepayment of spring rent along with the housing application prior to receiving a housing agreement.
3. The student must sign and return a Residence Hall Agreement by the published deadline. Failure to do so may result in cancellation of the application and forfeiture of the \$100 prepayment.
4. Cancellations must be made in writing or in person at the Department of Student Housing according to the terms of the Residence Hall Agreement. *Cancellations will not be taken by telephone.*

5. Check-in dates will be provided by the Department of Student Housing and Residence Life.

Housing Assignments • Special attention is given to a student's indicated preferences. Requests will be honored whenever possible. However, no specific room assignment based solely upon a resident's request is guaranteed or implied. Preferred roommate assignments are contingent upon the date of receipt, priority status, and joint or mutual request for one another. Residents who wish to be roommates are encouraged to submit their Housing Applications and prepayments prior to March 15 to facilitate this process. Learning Community/Special Option floors are available in some halls and are available to both freshmen and upper-classmen. The University makes all assignments without regard to race, color, religion, or national origin.

General Housing Regulations • Internal regulations are explained in the Residence Hall Agreement *Living and Learning at Ole Miss: A Guide to Residence Hall Living* and the *M Book: Handbook of Standards and Activities*. Students should also note the following regulations:

The University reserves all rights in connection with the initial assignment and reassignment of rooms or the termination of their occupancy. Changes in room assignments must be approved by the Department of Student Housing and Residence Life.

The University reserves the right to reassign and consolidate students who do not wish to pay for a private room. Consolidation is done each semester and is administered based on location and the assignment date.

The University reserves the right to place students on a temporary basis of more than two to a room, if necessary. In this case, an appropriate adjustment will be made in the room rent for any students housed more than two to a room on a permanent basis.

Rooms in residence halls are available only to students of the University. The room is to be occupied only by the student assigned to it and cannot be subleased.

The University reserves the right to inspect the living quarters of any student residing on University campus property at any time that its administrative officials or their agents shall deem such inspection to be in the best interest of the University. Except for cases involving use of legal search warrants and for situations relating to fire hazards, mechanical malfunctions, and personal safety of residents in the hall, no person's room normally will be entered when there are no occupants present without due notice. Courtesies will be observed in any case, with proper respect for the privacy of each resident. With these guidelines in mind, periodic inspections will be made that will be concerned with general cleanliness and safety, property accountability, disorderly conduct, and excessive noise.

The University shall assume no responsibility for the theft, destruction, or loss of money, valuables, or other personal property belonging to, or in the custody of the student, for any cause whatsoever, whether such losses occur in the student's room. Students are encouraged to carry their own property insurance.

Residents will be held responsible for loss or damage to University property for any cause other than normal depreciation.

The University does not provide room accommodations during the recess periods of Christmas/semester break, fall or spring breaks. Residents who must remain on campus during these periods may be housed on a space-available basis. Residents who are housed on campus during break times will be charged per night. Guess, Hefley, and Deaton residents may live in their rooms during break times at no additional charge, provided their vacating date has not passed.

The University reserves the right to deny housing to students who have abused University regulations.

Rental rates are listed in the Fees and Expenses section of this catalog.

VILLAGE HOUSING

The University has 318 apartments that are assigned on a semi-permanent basis to married or single parents, upper-classmen and graduate students attending the University.

The Apartments • Three sizes of apartments are available: efficiency, one-bedroom, and two-bedroom. Each apartment has cable television service and Ethernet/Internet connections provided. If an occupant wishes to install air conditioning, a 220-volt window unit not to exceed a capacity of 1.5 tons should be used.

Eligibility for Occupancy • An apartment may be retained by a bona fide undergraduate, graduate, married, or single-parent student, provided that student is of junior standing or 21 years of age, is enrolled on a full-time basis in the University, and maintains the standard of conduct expected of apartment residents.

Contractual Period • Prior to moving into an apartment, a resident must sign a contract that covers the expected length of occupancy. Apartments are rented on an academic term basis; i.e., the resident must meet all requirements for occupancy each semester during the life of the contract.

Security Deposit • Action cannot be taken on an application for Village housing until a security deposit of \$25 has been made. Assignments within priorities are made primarily in the order of the dates of receipt of the security deposits. An additional \$75 deposit is required prior to moving into an apartment.

Assignments • Assignments are made about 30 days before each enrollment period. A \$100 advance rent payment is required to confirm the assignment. The \$100 will be applied to the semester rent during fee payment at registration. The advance rent payment generally is not refundable.

Inspections • Apartments are subject to inspection by University officials on the terms described above under General Housing Regulations.

Pets • Pets are not allowed in the apartments or in the Village area.

FOOD SERVICE

• **Johnson Commons**—Students may take their meals in the “ALL YOU CAN EAT” Dining Center located in Johnson Commons. The Johnson Commons Dining Center serves breakfast, lunch, and dinner Monday through Thursday, breakfast and lunch on Friday, and serves Sunday brunch from 10 a.m. to 2 p.m.

- **The Food Court**—The Food Court at the Ole Miss Student Union offers a wide selection including national brands such as Chick-Fil-A, Bene Pizza, Montague’s Deli, Krispy Kreme Doughnuts, Salad Garden, Java City, Tortillas, Kettle Classics, Freshen’s Fruit Smoothie Bar, Grille Works, Home Zone, Sushi, and Allegro Pasta. The Food Court is open seven days per week while school is in session.
- **Convenience stores**—Convenience stores are available with extended hours at Stockard/Martin, Crosby and the Ole Miss Union. The **Alumni House Snack Bar** offers breakfast Monday through Friday. A **Starbucks Café** is located in the Ole Miss Bookstore.
- **Meal Memberships**—Campus-housed freshmen are required to participate in a meal plan **both fall and spring** semesters. This is explained in the Fees and Expenses chapter.
- **Flex Food Money and Ole Miss Express**—These are accepted in all food locations and campus vending machines.

COMMUNICATION

Mail • Each University student who resides on the University’s Oxford campus is expected to rent a box at the University Post Office.

All students are expected to provide specific mail addresses at registration so that official communications can be delivered promptly to them while they are in attendance on the campus and also at their homes when classes are not in session.

Change of Address • Changes in either the local or home address are to be reported promptly to the registrar.

E-mail • Accounts are provided to each student.

Other Media for Communication • Students should observe notices and announcements on the bulletin boards located in residence halls and in academic and administrative buildings. Other sources include *The Daily Mississippian* newspaper; the campus radio station, WUMS 92.1; and the campus television station, Channel 12. Official announcements are normally disseminated through these media.

THE OLE MISS UNION

401 Union • (662) 915-7106

This centrally located building is managed by the Physical Plant Department and houses the University Post Office, Copy Center, the Ole Miss Bookstore and Café, the Food Court, automatic teller machines, the Ole Miss Ballroom, the Central Ticket Office, the University Information Center, the Dean of Students Office, Office of Orientation, Office of Campus Programming, student government offices, meeting rooms, and common areas.

STUDENT MEDIA

Dr. Ralph Braseth, director • 201 Bishop Hall • (662) 915-5503

THE DAILY MISSISSIPPIAN • (662) 915-5503 • stu_media@olemiss.edu • The daily student newspaper, published under the auspices of the Student Media Center, gives the campus news and discusses matters of interest to students and alumni.

WUMS-FM, Rebel Radio 92.1 • (662) 915-5503 • wums@olemiss.edu • The student radio station has been licensed by the Federal Communications Commission to operate as a 6,000-watt commercial station.

Channel 12 Newswatch • (662) 915-5503 • newswatch@olemiss.edu • The student cable television station broadcasts a live newscast and other news and commentary programs five days a week over the Oxford-University cable television system.

OLE MISS • (662) 915-5503 • yearbook@olemiss.edu • The student-edited annual portrays student life at the University and spotlights events of the year.

UNIVERSITY POLICE AND CAMPUS SAFETY

Randall Corban, director of University Police and Campus Safety • Kinard Hall • (662) 915-7234 • upd@olemiss.edu

The University Police Department (UPD) provides service and protection to the University's students, faculty, staff, properties, and campus. The five divisions—patrol, investigation, crime prevention, security staff, and traffic/support—strive to ensure a high quality of student-faculty life by promoting a tranquil, safe atmosphere conducive to the objectives of the University.

For emergency intercoms directly linked to UPD, Code Blue towers are located throughout campus. Late-night escort services are also available.

MOTOR VEHICLES

Procedure for Registering Vehicles • Every student who is otherwise eligible to keep a vehicle at the University must (1) maintain liability insurance on the vehicle, (2) register the vehicle with the University Police Department, and (3) display the vehicle emblem issued.

Other Regulations Regarding Motor Vehicles • As at most universities, Ole Miss parking spaces are at a premium. Students are restricted from driving cars in the main part of campus during class hours. Traffic and other regulations are included in the *M Book*.

ID CENTER

Paul B. Johnson Commons, West 102 (basement)

The ID Center is responsible for making University student and employee ID cards. Students can use their ID cards to open electronic locks, make purchases from vending machines, and pay for meals and merchandise at on-campus facilities and participating off-campus locations. IDs are made between 8:15 a.m. and 4:45 p.m. Monday through Friday.

STUDENT HEALTH SERVICE

Barbara Collier, CFNP, director • V.B. Harrison Health Center • (662) 915-7274 • bcollier@olemiss.edu

The Student Health Service is a general practice medical clinic providing care to students. Routine clinic services are provided from 8 a.m. to 5 p.m. Monday through Friday. Tuition covers the cost of the services of the health care professionals. Prescription and nonprescription drugs, laboratory tests, X-ray procedures, and physiotherapy are provided to the student on a cost basis. If any charges are made to the student that are covered by insurance, the Student Health Service (at the request of the student) will provide the necessary claim forms to the appropriate insurance company. Prescriptions are dispensed at the **Student Health Pharmacy**, and charges may be billed to the student's bursar account, or at local pharmacies at the student's own expense.

Since the Student Health Service is a general practice medical clinic, some patients must be referred to medical specialists. Illness or injuries requiring hospitalization also are referred to the local hospital. The cost of this care must be borne by the student unless it is an illness or injury covered by medical insurance. An optional medical and hospital plan is available to students and students' families. It may be purchased at fall, spring, and summer registration.

All students born after Jan. 1, 1957, must show proof of two measles and one rubella immunizations prior to registration.

COUNSELING AND WELLNESS PROGRAMS

Dr. Marc K. Showalter, director • V. B. Harrison Health Center, 2nd Floor • (662) 915-3784 • counslg@olemiss.edu

Psychological Counseling and Crisis Intervention • The University Counseling Center is a professional facility available to assist students, faculty, and staff with problems in their lives that may interrupt day-to-day functioning, such as depression, anxiety, family and relationship problems, alcohol and drug abuse, and other identity and trauma issues. The counselors provide short-term therapy, support groups, and assistance in locating the proper referral sources, if needed. A counselor is on call 24 hours a day for crisis intervention. Counseling staff include licensed professionals and other appropriately trained counselors and therapists.

The Bessie S. Speed Alcohol and Drug Education Program seeks to promote personal responsibility for choices that lead to a healthy, balanced lifestyle. Counselors and programmers present informative workshops on a variety of health education topics in classes, residence halls, Greek houses, and other campus locations.

EQUAL OPPORTUNITY AND REGULATORY COMPLIANCE

Bettie T. Puckett, executive director, Office of Equal Opportunity and Regulatory Compliance • 217 Martindale • (662) 915-7735 • tty (662) 915-1570 • eeo@olemiss.edu

The University of Mississippi seeks to foster an atmosphere of respect for all members of the University community. To this end, the University is committed to maintaining a work and learning environment free of harassment or discrimination.

The University complies with all applicable laws regarding affirmative action and equal opportunity in all its activities and programs and does not discriminate against anyone protected by law because of age, color, disability, national origin, race, religion, sex, or status as disabled veteran or veteran. Further, the University does not discriminate against anyone because of sexual orientation.

For summaries of the University's policies and the complaint procedures for those who believe their rights have been violated, see the *M Book, The University of Mississippi Handbook of Standards and Activities*, available from the Office of the Dean of Students. Copies of the complaint procedure are available from the Office of the Equal Opportunity and Regulatory Compliance.

OFFICE OF STUDENT DISABILITY SERVICES

Bettie T. Puckett, executive director • 234 Martindale • (662) 915-7128 • tty (662) 915-7907 • sds@olemiss.edu • www.olemiss.edu/depts/sds

The University of Mississippi is committed to ensuring equal access to an education for enrolled or admitted students who have verified disabilities under Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 (ADA). The office serves those with physical and nonphysical disabilities. University policy calls for reasonable accommodations to be made for eligible students with verified disabilities on an individual and flexible basis.

It is the responsibility of students with disabilities to seek available assistance from the University and to make their needs known by contacting the Office of Student Disability Services (SDS) in a timely manner. A Student Request for Reasonable Accommodations/Modifications Intake Form must be completed and documentation from a licensed health care professional must be submitted before eligibility for accommodations can be confirmed. For a copy of the intake form, or for additional information, contact the disability specialist or the program assistant at the SDS office.

MISSISSIPPI ALLIANCE FOR MINORITY PARTICIPATION

Jacqueline Vinson, project coordinator • 109 Somerville • (662) 915-7427 • jvinson@olemiss.edu

MAMP is a joint effort between the National Science Foundation, the state of Mississippi, and Mississippi's eight state universities. The goal of MAMP is to increase the number of graduates in science, engineering, and mathematics who are members of traditionally underrepresented minorities. MAMP offers a summer bridge program for entering freshmen, the "Guaranteed 4.0 Program," seminars on skills for academic success, and

financial incentives for qualified applicants. IMAGE (Increasing Minority Access to Graduate Education) also is a part of MAMP during the academic year, offering tutoring, mentoring, professional conferences, summer research internships, Guaranteed 4.0 Seminar, study sessions, statewide IMAGE retreats, networking, financial support, walk-in IMAGE Center, and other activities designed by IMAGE scholars.

UNIVERSITY WRITING CENTER

Brenda Robertson, director • J.D. Williams Library • (662) 915-7689 • writingc@olemiss.edu

The University Writing Center offers a free support service for student writers in all disciplines and at every level of development or ability. The Writing Center's main purpose is to offer student writers one-on-one consultations concerning class assignments or any other writing projects. Writing consultants are experienced English Department graduate instructors. Students make appointments through an online appointment calendar and then meet with the consultants to discuss writing concerns such as understanding an assignment, brainstorming, development of ideas/critical thinking, audience consideration, organization, stylistic choices, grammar, research documentation, or document presentation. Students have the most effective writing consultation experiences when they make appointments early in the writing process and have specific questions on which to focus. Writing consultants do not estimate the grade a student might receive for an assignment but offer constructive criticism and encouragement to all. Current University Writing Center hours are available at www.olemiss.edu/depts/writing_center/.

INFORMATION TECHNOLOGY

Dr. Emmette Hale III, associate vice chancellor for information technology • 302 Powers Hall • (662) 915-7206 • it@olemiss.edu • <http://www.olemiss.edu/depts/it>

The Office of Information Technology (IT) offers students a wide array of services, from supercomputers to personal computing support to e-mail accounts and space for creating Web pages. Residence halls, the Village Apartments, academic and administrative buildings, and several fraternity and sorority houses are wired for direct network access, and some areas are wireless-enabled. Students may contact the IT Helpdesk by phone (915-5222), e-mail (helpdesk@olemiss.edu) or walk-in (Galtney Center in Weir Hall) for technology assistance.

Public computing labs (<http://www.olemiss.edu/itlabs>) are maintained by IT in the Galtney Center in Weir Hall and include approximately 70 desktop units distributed across PC/Windows and Mac platforms. These computers are configured with Web browsers, office suite software, and other special-purpose applications. They are connected to gray-scale and color laser printers and digital scanners. An interactive teaching lab of 18 networked computers (Windows NT) is used for seminars and special class sessions. Agreements are in place with major software and hardware vendors, which allow students to make technology purchases at discounted rates.

An Appropriate Use Policy (<http://www.olemiss.edu/ause.html>), which reflects academic honesty, ethical behavior, and consideration in the consumption of shared resources, governs the use of all campus computer facilities. This document appears in the M Book and is binding on all students.

STUDENT EMPLOYMENT

Student Employment Office • Johnson Commons Southeast • (662) 915-5690

The Student Employment Office exists to assist students and prospective students in finding employment on campus, as well as to serve the University in finding student employees. Student employment is not a part of financial aid and should not be confused with the Federal Work-Study Program. Students wishing to find employment off campus are encouraged to contact the Career Center, which provides a clearinghouse for employers and student employees.

CAREER CENTER

Toni Avant, director • 303 Martindale Center • (662) 915-7174

The Career Center provides a wide variety of programs for students of differing career needs. The services are offered to help students select a major, develop career goals, identify potential employment opportunities, and learn job search and marketing strategies. Services provided for University students include the following:

Career Exploration • Counseling is available for individual career concerns. Several decision-making, interest, and general self-assessment inventories are available. A career resource library is maintained, enabling students to conduct a self-guided career and graduate school search. Internet job search tools and resources also are accessible in the Career Center.

Courses • Career and Life Planning (EDLD 301) is offered to juniors and seniors who desire job search training. The course provides students an opportunity to 1) explore interests, skills, lifestyle preferences, personal and career values, and to relate them to the career decision-making process; 2) learn the tools necessary for developing an effective job search; 3) set goals for future career and life planning.

Internships/Part-time jobs • The Job Location and Development (JLD) Program assists students in locating and obtaining off-campus part-time jobs. Career binders containing summer jobs and internship listings are also available.

Campus Interviews • Through the campus interview program, assistance is offered to students seeking permanent employment. Recruiters from business, industry, government, and education visit campus to interview students for career opportunities. A central resume database is utilized to refer candidates' résumés to employers who contact the department. Credential files also are maintained.

Career Links • Through Career Links, an Internet database, students can network with alumni employed in various career fields.

CULTURAL OPPORTUNITIES

Artist Series • The Artist Series, directed by a student, faculty, and staff committee, brings a number of distinguished performing artists in the fields of music, theater, and dance to the campus each academic year.

University Lectures • In 1960, Mrs. Ann Waller Reins Longest established the Christopher Longest Lecture Fund in recognition of Professor Longest's distinguished service to the University from 1908 to 1951 in the departments of Classics and Modern Languages. The annual Longest Lectures are delivered by scholars in the fields of modern languages and English literature.

In 1972, the students, colleagues, and friends of James Edwin Savage, professor of English, established the *James Edwin Savage Lectures* in honor of his contributions to teaching and scholarship in the Renaissance. The James Edwin Savage Lectures are given by outstanding scholars in the fields of Renaissance literature, art, history, music, and philosophy.

In 1973, the School of Pharmacy established the *Charles W. Hartman Lectures* to recognize the contributions of Charles W. Hartman, former dean of the School of Pharmacy, to the pharmaceutical sciences. Annually, an internationally recognized leader in pharmacy is selected to deliver the lecture.

The *Arch & Adine Dalrymple Lecture in Mathematics*, established in 1988, brings distinguished mathematicians to the University to speak on mathematics and mathematics research.

In 1998, the Department of Pharmacy Administration established the *Rachel and Winfield Cotton Lecture* to recognize Mr. Cotton's contributions to pharmaceutical wholesaling. The lectures are delivered by scholars in the fields of development and distribution of pharmaceutical products.

Regular noon-time lectures are presented during the academic year by the Center for the Study of Southern Culture, the University Museums, and the Sarah Isom Center for Women. The College of Liberal Arts sponsors a monthly forum of speakers from its faculty. The Philosophy Department sponsors a monthly lecture and discussion series. Many University departments hold regular seminars featuring distinguished outside or local speakers.

PERFORMING ARTS GROUPS

VOCAL MUSIC GROUPS. The **University Concert Singers** have performed at national American Choral Directors Association conventions, as well as overseas in international choral competitions. The **University Chorale** provides an additional opportunity for mixed ensemble performance; mens' and womens' portions of this ensemble have performed at state and national ACDA conferences and other regional conventions. The **University Chamber Singers** perform a wide variety of vocal chamber literature. The **University Opera Theatre** offers a comprehensive laboratory experience, culminating in a scenes recital in the fall and a fully staged opera in the spring. The **Mississippi Early Music Ensemble** is a vocal/instrumental group that performs music of the 12th through early 18th centuries. The group includes both faculty members and students as instrumental and vocal performers.

INSTRUMENTAL MUSIC GROUPS. The **University Symphonic Band** and **University Concert Band** perform a series of campus concerts; the **University Wind Ensemble** performs invitational concerts and on tour. The **Ole Miss Marching Band** appears at University football games during the fall semester. The **University Orchestra** performs a series of campus, tour, and invitational concerts. There are two "big band" jazz ensembles: **The Mississippians** and **The Collegians**. The **University Steel Drum Band** and the **Percussion Ensemble** also perform regularly throughout the region. **Woodwind and Brass Ensembles** perform throughout the area.

THEATRE GROUPS. The **University Theatre** performs a mixture of contemporary plays, period plays, musicals, studio productions, and dance concerts. **SHOWSTOPPERS** is a musical theater company that produces a full-length revue of production numbers from Broadway and West End musicals. **MISSISSIPPI: THE DANCE COMPANY** produces the department's annual concert dance program, featuring numbers in the modern, ballet, jazz, and tap styles.

STUDENT GOVERNMENT

With the wholehearted support of the administration, student government has proved itself to be forward-looking, mature in viewpoint, and cooperative yet independent. It contributes much to student life and to the University as a whole.

The Associated Student Body • The central organization of the entire student body is the ASB. Its broad purpose is to deal effectively with matters of student affairs for the best interest of the student body as a whole and to the credit of the University.

Organization • Student government is organized on a plan similar to the national and state governments with executive, legislative, and judicial branches. The campus Senate (legislative branch) is composed of members who are elected representatives from all student residence groups. The Judicial Council serves as a court to review all legislation passed by the campus Senate, to hear appeals from subordinate councils, and to interpret the constitution of the ASB.

STUDENT CONDUCT AND DISCIPLINE

The broad purpose underlying student discipline is to order University living in such a way that the interests of the student body as a whole and of the individual members are best served. The University's responsibility extends to the conduct of all students on the campus of the University. The University reserves the right to sever the connection of any student with the University for appropriate reason. When a situation of a disciplinary nature arises, every effort is made to discover the reasons underlying the behavior in question so that constructive steps for the future may be taken. The standards of conduct and disciplinary procedures are stated in detail in the *M Book*, which is available online at www.olemiss.edu.

DEAN OF STUDENTS

Dr. Thomas J. "Sparky" Reardon, dean • 422 Union • (662) 915-7248 • sparky@olemiss.edu

The Dean of Students Office is responsible for all student activities outside of academics, such as leadership opportunities through student government, honorary societies, Greek life, and programs that enhance and complement academic areas. The dean of students supervises selection of honors such as Who's Who Among Students in American Universities and Colleges and the Ole Miss Student Hall of Fame, coordinates nonacademic disciplinary procedures, and serves as the crisis intervention center for the University.

SOCIAL OPPORTUNITIES

Student Organizations, Societies, and Clubs • Descriptions of these organizations may be found in the *M Book*.

Aiki-Kai Club
 Alpha Lambda Delta
 American Advertising Federation
 American Chemical Society
 American Indian Student Union
 American Institute of Chemical Engineers
 American Marketing Association
 American Society of Civil Engineers
 Angel Flight-Silver Wings
 Anime Club
 Associated Accounting Student Body
 Association for Computing Machinery
 Association of Information Technology Professionals
 Beta Gamma Sigma
 Black Law Student Association
 Chi Epsilon
 Child And Family Life Association
 Chinese Student Association
 College Democrats
 College Republicans
 Collegiate Exchange Club
 Community Service Group
 Courage, Unity, and Pride
 Criminal Law Society
 Croft Student Senate
 Delta Theta Phi
 Ebony and Ivory Elegance Modeling Board
 Engineering Student Body
 Entertainment & Sports Law Society
 Environmental Action Organization
 Eta Kappa Nu (HKN)
 Fencing Club
 Friendship Association of Chinese Students/Scholars
 Gamma Beta Phi
 Gamma Iota Sigma
 Gay, Lesbian, Bisexual Association
 (now called Courage, Unity, and Pride)
 Golden Key National Honor Society
 Gorove Society of International Law
 Hapkido Club
 India Association
 Institute of Electrical/Electronic Engineers
 Intellectual Property Law Association
 International Student Organization
 Italian Club
 Kappa Epsilon
 Kappa Pi
 Kappa Psi
 Korean Student Association
 Lambda Sigma
 Latin American Students Association
 Law Association for Women (LAW)
 Master of Business Administration Association
 Mariners
 Mississippi Association of Educators (MAE)
 Mississippi Trial Lawyers Association
 Model United Nations Association
 Moot Court Board
 Mortar Board
 Mud Dauber Student Association
 National Community Pharmacists Association
 National Society of Black Engineers
 National Society of Collegiate Scholars
 National Student Speech, Language & Hearing Association
 Ole Miss Army ROTC Ranger Challenge Team
 Ole Miss Ambassadors
 Ole Miss Fly Fishing Club
 Ole Miss Karate Club
 Ole Miss Modeling Board
 Ole Miss Officials Association
 Ole Miss Prelaw Society
 Ole Miss Triathlon & Multi-sport Club
 Omicron Delta Kappa
 Phi Alpha Theta
 Phi Delta Chi
 Phi Delta Phi
 Phi Gamma Xi
 Pi Delta Phi
 Pro-rec Club
 Professional Land Management
 Psi Chi Honor Society
 Public Interest Law Clinic
 Resident Advisors Association
 SADD
 Sigma Alpha Iota
 Sigma Tau Delta
 Society for Creative Anachronism (SCA)
 Society for Physics Students
 Society of Student Anthropologists
 Student Advancement Foundation
 Student Alumni Council
 Student Art Association
 Student National Pharmacy Association
 Student Social Work Organization
 Tau Alpha Chi
 Tau Beta Pi
 Tau Beta Sigma
 Teachers of Tomorrow
 Tri Beta (Beta Beta Beta)
 University of Mississippi Gospel Choir
 University of Mississippi Hospitality Club
 University of Mississippi Civil Liberties Union (UMCLU)
 University of Mississippi Habitat for Humanity
 University of Mississippi Tae Kwon Do Club
 University of Mississippi Ultimate Frisbee Club Team
 University of Mississippi Greens
 University of Mississippi Habitat for Humanity
 University of Mississippi Merchandising Association
 Village Kids' Club

Social Affairs • Student social affairs operate under policies established by a student-faculty committee. Responsibility for their proper conduct is placed on committees established for this purpose. All organizations, fraternal or otherwise, are required to adhere to regulations approved by the University administration as stated in the online *M Book*, found on the Dean of Students' Web site, www.olemiss.edu/depts/dean_of_students/.

SOCIAL FRATERNITIES AND SORORITIES

Nineteen national fraternities and 13 national sororities have chapters on the campus. The activities of these organizations are governed by the Interfraternity Council, the National Panhellenic Council, and the Panhellenic Council. Recommendations of the councils are subject to the approval of a faculty-student committee, of which the officers of the councils are members. The purposes of the councils are to maintain a high plane of fraternity life and interfraternity relations; to compile and enforce regulations governing rushing, pledging, and initiation; to promote intellectual achievement and scholarship; and to cooperate with the University administration in the maintenance of high social standards.

FRATERNITIES

Alpha Phi Alpha
Alpha Tau Omega
Beta Theta Pi
Chi Psi
Delta Kappa Epsilon
Delta Psi
Kappa Alpha Order
Kappa Alpha Psi
Kappa Sigma
Omega Psi Phi
Phi Beta Sigma
Phi Delta Theta
Phi Kappa Psi
Phi Kappa Tau
Pi Kappa Alpha
Sigma Alpha Epsilon
Sigma Chi
Sigma Nu
Sigma Phi Epsilon

SORORITIES

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

RELIGIOUS LIFE

Nonsectarian • The University of Mississippi is a state institution and is therefore wholly nonsectarian. Every encouragement is given to the continued growth and development of character and the highest spiritual aspirations of students. The ministers of Oxford and the chaplains, directors, and advisers to the campus religious groups provide resources for the fulfillment of these goals.

Religious Organizations • Serving as a channel of communication is the Religious Activities Office within the Dean of Students' Office. The religious programs are conducted through various organizations of University students and encourage participation and preparation for leadership in their respective religious affiliation.

Baptist Student Union
 Campus Crusade for Christ
 Catholic Student Association
 Chi Alpha
 Chinese Christian Fellowship
 Fellowship of Christian Athletes
 International Christian Fellowship (Navigators)
 Latter Day Saints Student Association
 Mind, Body, and Soul Christian Forum

Muslim Student Association
 Reformed University Fellowship
 Student Mobilization (STUMO)
 Unitarian Universalist Student Organization
 University Christians
 Village Kids Club
 Wesley Foundation (United Methodist Campus Ministries)
 Westminster Fellowship (Presbyterian)

OFFICE OF INTERNATIONAL PROGRAMS

Michael Johansson, director, 331 Martindale • (662) 915-7404 • ipdept@olemiss.edu

The Office of International Programs assists international students with admission and placement, arrival services and orientation, counseling, and intercultural, social, and educational activities. The staff support and assist in the organization of intercultural activities and festivals, and a variety of other activities to encourage social interaction among students from throughout the world. International document processing and visa advisory services are offered for international students, scholars, and faculty.

CAMPUS RECREATION

William Kingery, director • 214 Turner • (662) 915-5591 • mrbill@olemiss.edu

The University promotes and offers a well-rounded program of leisure time activities through the Department of Campus Recreation. Structured and unstructured recreational opportunities are available through intramural sports, sport clubs, Ole Miss Outdoors, Ole Miss Fit Aerobics, informal recreation, aquatics, and facility management. Skill level is not a prerequisite for entering into any of the programs, which are all offered to male and female students.

Students are encouraged to make full use of the indoor and outdoor facilities available for recreational use. The Turner Center (including a fitness center and indoor pool), multipurpose fields, tennis courts, Ole Miss Golf Course, and other recreational facilities are available throughout the year. Students are encouraged to inquire within the Department of Campus Recreation about numerous job opportunities related to campus recreation.

INTERCOLLEGIATE ATHLETICS

The University is one of the founding members of the Southeastern Conference. The intercollegiate athletics program is managed by the Department of Intercollegiate Athletics under the direction of the chancellor and an advisory committee. Conference sports in which the University participates include football, baseball, basketball, golf, tennis, track & field, cross-country, rifle, soccer, softball, and volleyball.

OLE MISS LOYALTY FOUNDATION

George Smith, executive director • UMAA-All-American Drive • (662) 915-7159 •
umaalf@olemiss.edu

The Ole Miss Loyalty Foundation aids the Department of Intercollegiate Athletics at The University of Mississippi by providing scholarships for student-athletes, by providing funding for necessary facility improvements and construction, and by supporting the department in any other ways necessary to have an outstanding athletic program.

FRIST STUDENT SERVICE AWARD

Two awards, named in honor of Dr. Thomas F. Frist, are made annually to a faculty member and a staff member who have provided exceptional services to students on campus. The following recipients of the award are currently on the faculty or staff: Donald Cole (Graduate School), Vaughn Grisham (sociology), Sue Hodge (business administration), Pamela Lawhead (computer science), Barbara Leeton (liberal arts), Max Miller (financial aid), James O'Neal (health professions), Terry Panhorst (geology and geological engineering), Ginger Paterson (Office of Summer School), Margie Potts (theatre arts), Melinda Pullen (student housing and residence life), Thomas Reardon (dean of students), Linda Spargo (Office of Chancellor), William Staton (mathematics); Patricia Treloar (mathematics).

CAMPUS PROGRAMMING

Jennifer Jones Taylor, director • 419 Student Union • (662) 915-1044 •
jjtaylor@olemiss.edu

The mission of the Department of Campus Programming is to enhance the social, cultural, and intellectual opportunities for students and the University community through innovative and entertaining activities and programs. Serving as a programming resource for the University, the Department of Campus Programming often partners with campus organizations and departments to sponsor campus events and activities. Committed to the development of leadership and citizenship among students, the Department of Campus Programming strives to promote excellence in student activities programming. Under the leadership of the Department of Campus Programming, the Student Programming Board (SPB) provides campus entertainment and opportunities for student involvement in programming. Sponsoring more than 125 events each year, the SPB promotes the activity of student life through special events, multicultural programs, pageants, musical entertainment, and late night programs.

Welcome Week • A full week of activities at the beginning of the fall term is scheduled to provide new students with opportunities to meet classmates and gain added information to make transitions easier, and to welcome them into the Ole Miss family.

Admission to the University

Beckett Howorth, director of admissions • Martindale Center • (662) 915-7226 • FAX (662) 915-5869 • admissions@olemiss.edu

Admission to the University is administered under policies established by state law, the Board of Trustees of State Institutions of Higher Learning, and the University's faculty. Admission requirements are subject to change without notice at the direction of the Board of Trustees.

Applications • Prospective students interested in undergraduate admission for the campuses in Oxford, Southaven, and Tupelo are encouraged to apply online by going to <http://secure.olemiss.edu/admissions/ug.html>. Those who may be unable to apply online may print a copy from the Web site above or request a paper application from the Office of Admissions, P.O. Box 1848, 145 Martindale, University, MS 38677-1848. Prospective students interested in admission to the Graduate School may contact the dean of the Graduate School, The University of Mississippi, University, MS 38677. Those students interested in admission to the School of Law may contact the Director of Admissions, School of Law, The University of Mississippi, University, MS 38677.

Application Deadlines • Undergraduate and graduate applicants should submit all required admission materials well in advance of the start of the term in which enrollment is sought. Nonresidents of Mississippi applying for first-year undergraduate admission for the summer or fall terms should mail complete application materials no later than April 1. Applications postmarked after April 1 will be evaluated on a space-available basis, with special consideration afforded applicants who stand to make exceptional scholastic and/or co-curricular contributions to the campus community.

Applications may be accepted as early as one year before the start of the desired enrollment term. It may not be possible to evaluate an application that is received later than 20 days prior to the start of the term. Students who apply within 20 days of the start of the term may be required, if admitted, to register after classes have begun and to pay associated late fees.

Application Fees • Mississippi residents must pay a nonrefundable \$25 application fee and nonresidents of Mississippi must pay a \$40 fee at the time of application. The fee is payable by credit card with the online application. Students who have received a waiver of the charge for taking the ACT or SAT may qualify for a waiver of the UM application fee by providing a copy of the test fee waiver.

Off-campus Sites • The University of Mississippi offers undergraduate classes at various locations including Tupelo, Southaven, Jackson, and other sites. Degree credit earned at these locations will be treated as residence credit and appear on the student's permanent academic record. Students at off-campus sites must meet regular admission requirements and be accepted for admission to the University.

Immunization Requirement • The Board of Trustees of State Institutions of Higher Learning, in cooperation with the Mississippi State Board of Health, requires all entering students born after January 1, 1957, to submit proof of two immunizations for measles and one for rubella prior to registration. Immunizations must be given after one year of age. Forms for documenting immunizations or establishing an exemption to the requirement are available from the Student Health Service office and will be sent to students upon admission.

FRESHMAN ADMISSION

Standard Test Results • Please note that standard test results (ACT or SAT) should be sent directly from the testing service to the admissions office. Test results posted on a high school transcript cannot be used for final admission.

College Preparatory Curriculum • Admission of entering freshmen is based on the completion of the College Preparatory Curriculum (CPC) specified below with either a specific minimum grade-point average (GPA) or both a specific GPA and minimum standard test score. Students must submit a high school transcript reflecting satisfactory completion of the following high school course requirements. (Provisional admission may be granted after six semesters of high school provided the transcript indicates that courses to complete the CPC are underway; final admission will require a complete transcript.)

Carnegie

Subject	Units	Contents and Remark
English	4	All must require substantial communication skills components (i.e., reading, writing, listening, and speaking)
Mathematics	3	Includes Algebra I, Geometry, Algebra II. A fourth class in higher-level mathematics is highly recommended.
Science	3	Choice of biology, advanced biology, chemistry, advanced chemistry, physics, advanced physics, or any other science course with comparable rigor and content. One Carnegie unit from a rigorous physical science course with content at a level that may serve as introduction to physics and chemistry may be used. Two of the courses chosen must be laboratory based.
Social Studies	3	Courses should include U.S. history (1 unit), world history (1 unit with substantial geography component), government (1/2 unit), and economics (1/2 unit) or geography (1/2 unit).
Advanced electives	2	Requirements may be met by earning 2 Carnegie units from the following areas/courses, one unit of which must be in a foreign language or world geography. Foreign language World geography 4th year lab-based science 4th year mathematics
Computer Applications	1/2	Course should emphasize the computer as a productivity tool. Instruction should include the use of application packages, such as word processing and spreadsheets. The course also should include basic computer terminology and hardware operation.
Eighth Grade Units		Algebra I or first-year foreign language taken in the eighth grade will be accepted for admission provided the course content is the same as the high school course.

Regular Admission • Regular admission will be granted to the following:

- (1) All students completing the College Preparatory Curriculum (CPC) with a minimum 3.20 high school GPA on the CPC.
- (2) All students completing the CPC with a minimum 2.50 high school GPA on the CPC and a minimum score of 16 on the composite ACT (or 760 on the SAT).
- (3) All students completing the CPC with a class rank in the top 50 percent and a minimum score of 16 on the composite ACT (or 760 on the SAT).
- (4) All students completing the CPC with a minimum 2.00 high school GPA on the CPC and a minimum composite score of 18 on the ACT (or 860 on the SAT).
- (5) All students who meet full-qualifier certification requirements for the National Collegiate Athletic Association (NCAA). *This option is available to all freshman applicants who are U.S. citizens.*

Admission Requirements for Engineering, the Professional Program in Pharmacy, and Early Entry Nursing • Freshman admission requirements for engineering, the professional program in pharmacy, and early entry nursing differ from general admission requirements. Please see the engineering, pharmacy, and health professions sections of the catalog for details.

Minimum Test Scores • Students whose ACT subtest score in reading, English, and/or mathematics is less than 17 (or SAT verbal and/or mathematics score is 400 or less) are required to enroll in an appropriate developmental course during the first semester of enrollment and to remain in the course until receiving a passing grade or until passing the placement exam administered by the Department of Developmental Studies. Students with ACT subtest scores of 17, 18, or 19 are encouraged to enroll in developmental courses. Those students who enroll in two or more developmental courses also are required to complete two semesters of Developmental Support Lab (see below). Enrollment in developmental courses is limited to students with subtest scores below 20 except with permission of the department. Developmental courses completed at other postsecondary institutions before enrolling at The University of Mississippi may be considered to meet developmental requirements.

Test Score Minimums as Course Prerequisites • Some courses may require a minimum standard test score as a prerequisite. For example, students enrolling in Chemistry 105/106 or Biology 160/161 must have a 22 subscore on the mathematics portion of the ACT (SAT math score of 510) or have completed College Algebra with a grade of B or higher.

Other Admission Criteria • Residents of Mississippi who apply and do not meet the admission requirements stated above may enter the Academic Screening Program (counseling and testing) held on campus and at other designated locations prior to the beginning of the first summer session. Such counseling will consider student interests, special skills, experiences, and other noncognitive factors. After counseling, students will take a computer-based examination (Mississippi College Placement Examination, MCPE) to assist the University in the admission decision. Students who pass the MCPE will be admitted for the fall term and will be encouraged to participate in the Developmental Support Lab during the first two semesters of enrollment. This admission option may also be available to children of alumni of The University of Mississippi who reside out-of-state and to residents of Shelby County, Tennessee, *if such students have at least a 2.0 overall final high school grade-point average.*

Summer Developmental Program • Mississippi residents or children of University of Mississippi alumni who are not successful on the MCPE may be admitted to the Summer Developmental Program. This intensive program concentrates on those high school subject areas (writing, reading, mathematics) that are crucial to success in first-year college courses. Students who successfully exit the summer program may continue in the fall term with the requirement of participation in the Developmental Support Lab during the fall and spring semesters. Students who do not pass the Summer Developmental Program are counseled to explore other postsecondary options, including those offered by two-year colleges that prepare students for transfer into bachelor's degree programs.

The Developmental Support Lab is designed to assist students with first-year college studies and offers special tutors in mathematics, science, reading, and writing, as well as career counseling. The goal of this lab is to provide individualized support in regular academic courses for marginally prepared students.

Early Admission • A superior secondary school student may be offered Early Admission at the end of the third year in high school if the following criteria are met:

At least a 3.5 GPA on all CPC courses completed, a minimum composite ACT score of 25 (or SAT 1130), and recommendation by the applicant's high school principal or counselor.

Earning College Credit in High School • In the summer before the senior year in high school, students may earn University credit by attending enrichment programs such as PACE (Promoting Academic and Creative Excellence), Croft Summer Scholars, and the Summer Institutes in Art, Journalism, and in Music, if the following criteria are met:

Completion of at least 15 college preparatory courses with a minimum 3.2 GPA on those courses, recommendation by the applicant's high school principal or guidance counselor, and successful application to PACE or to the Summer Institute.

Summer enrichment programs are administered by the Office of Summer School.

ADMISSION OF TRANSFER STUDENTS

Students may be accepted for transfer from other regionally accredited colleges and universities if a minimum 2.00 cumulative GPA has been maintained on all course work attempted with the exception of vocational/technical or other courses not acceptable for transfer. Every attempt on repeated courses is counted. Applicants must list all colleges attended on the application for admission. (Failure to provide information about prior college attendance is grounds for disciplinary action including immediate dismissal from the University.)

In addition, the applicant must meet **one** of the following criteria:

1. Has been admissible as a freshman. The applicant must submit official high school records (see Freshman Admission) as well as college transcripts to meet this requirement.
2. Has successfully completed at least the following 24 semester hours of college work at a regionally accredited school:
 - 6 hours of English composition
 - 3 hours of college algebra or higher

- 6 hours of laboratory science
 - 9 hours of transferable electives
3. Has earned an associate's degree intended for transfer to a four-year school.

A student who does not meet the 2.00 transfer GPA requirement and has not attended college in at least 12 months may be considered for admission on probation. The student must submit a letter of petition with the application and be approved by the academic dean of the college or school that the student wishes to enter. Students who have been out of school for at least 36 months may be admitted without petition as undergraduates. Such students must earn at least a 2.0 on the first 12 hours and thereafter.

Evaluation of Credits • University policy on the transfer of credit hours is described in the Academic Regulations chapter under Transfer Credit.

Grade Requirements • Transfer students are required to maintain a minimum GPA of 2.0 on courses taken at the University, and to have a minimum GPA of 2.0 on all college work attempted, in order to graduate. See Degree Requirements in the Academic Regulations chapter.

OTHER TYPES OF ADMISSION

Admission of Visiting Students • A student who regularly attends another recognized institution and who plans to return to that institution may be admitted to the University as a visiting student. The applicant must comply with the general requirements for admission and, in lieu of transcripts of credits, must submit a letter or certificate of good standing from an official of the institution that the student regularly attends. A student admitted to the summer session as a visiting student may elect to enroll in the University's next regular session. The student can qualify by submitting transcripts of credits from the other institutions attended and by meeting the requirements applicable to transfer students. If the student has attended The University of Mississippi previously, he or she must be re-admissible.

Admission of Students Who Are Not Graduates of Regionally Accredited High Schools • Applicants who are home-schooled or who have not successfully completed high school must submit standard test scores (ACT composite minimum of 18 or SAT combined minimum of 860) and successfully complete the Mississippi College Placement Exam (see "Other Admission Criteria" above). Home-schooled students must present summaries of their educational experiences, which may include portfolios and transcripts. Students who are not high school graduates must present qualifying GED scores or, in some cases, may qualify as undergraduate special students (see below).

Admission of Undergraduate Special Students • A student who is at least 21 years of age, has been out of school for at least three years, and cannot present an acceptable high school record may be admitted to the University for such courses as he or she may be prepared to enter. This category is reserved for those who have had delays or interruption of the traditional sequence of educational pursuits. A person admitted as a special student is admitted with the same retention standards as degree-seeking students. Special students must have a minimum of a 2.0 GPA on 12 hours of course work to become degree-seeking students. After meeting this requirement, the special student may become a regularly enrolled student and the work completed while in the special status may be applied toward a degree. Failure to meet the stated requirements will result in academic suspension. While in special student status, a student may not register for more than 12 hours in a semester or summer session and will not qualify for financial aid programs.

Admission of Unclassified Students • Applicants who have already received the baccalaureate degree may enroll in the University if they desire to take courses for personal or professional improvement at the 400 level or below; or are pursuing a second undergraduate degree. Generally, students pursuing a second undergraduate degree will not be permitted to take graduate courses, but under certain circumstances, with the approval of the appropriate academic dean, they may enroll as unclassified students in 500-level courses.

Admission of Graduate Students • An applicant who has completed all requirements or has received the bachelor's degree from an institution accredited by a regional or recognized professional accrediting association may be admitted to the University as a graduate student for a program leading to an advanced degree, or as a graduate student with nondegree status for enrollment in graduate course work. Applicants desiring to enroll in the Graduate School should consult the Graduate School catalog for admission requirements and procedures.

Admission to the University of Mississippi Medical Center (Jackson campus) • After completion of the undergraduate prerequisites, applications for enrollment in medicine, nursing, dentistry, and health-related professions are submitted to the Division of Student Services and Records, The University of Mississippi Medical Center, 2500 N. State Street, Jackson, Mississippi 39216. Students should consult the Medical School catalog for admission requirements and procedures. Pre-nursing students also may have the option of seeking admission through the Early Entry Nursing Program. See the health professions sections of this catalog for details.

ADMISSION OF INTERNATIONAL STUDENTS

Enrollment of qualified students from other countries is encouraged by the University as it seeks to contribute to the realization of the personal aspirations of people throughout the world. It also seeks to stimulate in U.S. students a knowledge of and appreciation for the cultures and peoples of other lands.

International students from outside the United States must submit completed applications no later than 45 days prior to the intended term of enrollment. Applications received after that date may be considered for the following term. A \$40 nonrefundable application fee must accompany each application. Applications that do not include the \$40 application fee will not be processed. Other special admission requirements for international students include the following:

Academic Requirements • **FRESHMEN:** First-year undergraduate applicants must have received a high school diploma with a B average or above with three-year units in laboratory science, social studies, and mathematics. In addition, freshmen applicants are required to present results of either the American College Test (ACT) with a score of 21 or above or the Scholastic Aptitude Test (SAT) with a score of 980 or above.

International students who do not meet test score minimums may be considered for admission by sending a letter of petition along with other required application materials. A committee composed of representatives of the office of the dean of the school or college in which the student wishes to enroll and the offices of admission and international programs will review the student's file and make a decision.

TRANSFER STUDENTS: Undergraduates who have completed 15 or more hours of university-level academic courses with a B average, or three or more General Certificate of Education Advanced (GCE A) levels in academic subjects, will not be required to take the ACT or SAT and may be awarded transfer credit. International students transferring from U.S. institutions must meet the requirements outlined in the section Admission of Transfer Students earlier in this chapter.

Language Requirements • All applicants whose native language is not English are required to submit a computer-based TOEFL score, which will result in the following placement: (1) 213 or above—full standing (some departments require higher results); (2) 193-210 and outstanding academic qualifications—admission with one course in English training required; (3) below 193—student should apply instead to the English as a Second Language Program (see below). Note: Placement scores may change for new versions of the TOEFL.

In addition, incoming students whose native language is not English and whose computer-based TOEFL score is 213 or above will be given tests of English proficiency and listening comprehension. On the basis of these tests, students may be advised or required to take the class EFS 100, English as a Foreign Language.

International students are deemed to be proficient in English and are exempt from taking the TOEFL when both of the following conditions have been met: (1) Students must have attended a regionally accredited secondary school and/or college in the United States for at least four regular semesters over two consecutive years and (2) English must have been the primary language of instruction for courses taken while attending the school and/or college.

Estimated Costs • The estimated minimum cost for attending The University of Mississippi for each 12-month period is \$18,842, which includes an international student service fee assessed each semester. The U.S. Office of Immigration requires that applicants verify their ability to meet the cost of each year of the entire period of study prior to the issuance of a Certificate of Eligibility (I-20).

Health Insurance • All international students are assessed a health insurance fee at each registration. The University provides a group policy for all nonresidents of the United States. The policy provides excellent inexpensive protection while students are studying away from their home country.

Professional Programs • Undergraduate international applicants may be admitted to the pre-professional programs. However, no admission is available to schools of Medicine, Nursing, Dentistry, or Health Related Professions. Admission of foreign applicants to the professional schools of Law and Pharmacy is extremely limited.

Summary of Application Procedures for International Students:

1. Completed application form.
2. Submission of official transcripts of all previous academic work.
3. Submission of required official test results including TOEFL (SAT if applicable).
4. Payment of a nonrefundable \$40 application fee. (Applications will NOT be processed without receipt of this fee.)
5. Submission of completed financial affidavit form and official bank statements.
6. All overseas applications, including all required documents, must be submitted and the admission decision completed 45 days prior to the intended period of enrollment. Applications received after that date will be considered for the following term upon request by the applicant.

English as a Second Language Program • Andrew Barnette, coordinator • 212 Hill Hall • (662) 915-1560 • esl@olemiss.edu

The English as a Second Language (ESL) Program provides intensive English language instruction for international students who wish to study at The University of Mississippi or other institutions in the United States. The ESL Program offers classes in reading, writing, speaking, and listening at four different ability levels. The ESL Program offers a conversation partner program and encourages its students to participate in cultural activities both on and off campus. Two eight-week sessions are offered during the University's fall semester, two eight-week sessions are offered during the spring semester, and two four-week sessions are offered during the summer. All students receive 20 hours of instruction in addition to language laboratory activities.

ESL students are considered to be international students and are subject to all regulations and fees pertaining to international students. Application forms are available from the ESL Program as well as from the Office of International Programs. **Attending the ESL Program does not guarantee admission into an academic program at The University of Mississippi.** Tuition and book fees for the ESL Program are listed in the Fees and Expenses section.

RE-ADMISSION OF FORMER STUDENTS

All students who have interrupted their enrollment in the University must submit an application for re-admission to the Office of Admissions. Those who have attended other institutions during the interruption must have official transcripts forwarded by the institutions to the Office of Admissions. Re-admission will be to the school or department in which the student was enrolled during the most recent period of UM attendance. Students wishing to change majors must first be admitted and then may meet with an adviser from the program in which they wish to enroll.

Re-admission requirements for students who have been academically suspended or dismissed from the University are given in the Academic Standing section of the Academic Regulations chapter.

ACADEMIC RESTART POLICY

A former University of Mississippi student who has been out of any educational institution for the 48 consecutive months immediately prior to the time the student wishes to begin academic restart, may start his or her college education completely over by invoking the University's academic restart policy. The student will be considered as a totally new student from the time of first enrollment after the 48-month hiatus, and all academic regulations for new students (e.g., concerning probation, suspension, and honors) will apply. The new enrollment need not have been at The University of Mississippi.

A student's grades obtained prior to academic restart will remain on the student's transcript. However, no grade made prior to academic restart will be included in the student's cumulative grade-point average, and no credits earned prior to academic restart will fulfill graduation requirements.

A student's eligibility for academic restart at The University of Mississippi is determined regardless of the student's restart status at other institutions. A student may use The University of Mississippi's academic restart policy only one time.

ADMISSION OF STUDENTS WITH DISABILITIES

The University of Mississippi complies with all applicable laws regarding affirmative action and equal opportunity in all its activities and programs and does not discriminate against anyone protected by law because of disability. **Decisions regarding admission to the University are made on the basis of admissions standards stated above.** If assistance is needed to complete the admissions process because of disability-related reasons, incoming students must inform admissions' personnel of those needs.

In order for students to receive academic accommodations at The University of Mississippi, their eligibility must be verified. **Students must be fully admitted to the University before the verification process can begin.** For information regarding the verification process and documentation guidelines, students who may require academic accommodations should contact the Office of Student Disability Services at (662) 915-7128. Information can also be accessed through the office's Web site at www.olemiss.edu/depts/sds.

The University of Mississippi will make a good-faith effort to provide reasonable academic accommodations to those students who request assistance and who are verified as eligible. Students who may require accommodations or services through the Office of Student Disability Services are encouraged to ascertain, before enrolling in the University, whether the specific accommodations or services they may require would be available to them.

Fees and Expenses

It is the intent of the University to keep at a minimum the necessary expenses of its students. Decreases are made in the tuition fee to benefit students whenever possible. Increases are put into effect only when public funds are inadequate and no other recourse is available. Therefore, the University reserves the right to increase or modify fees, tuition, or scholarships without prior notice, upon approval by the Board of Trustees. A portion of student tuition and fee charges is used for operating costs, including scholarships and tuition waivers.

UNDERGRADUATE CREDIT-HOUR COSTS FOR ONE SEMESTER

Tuition and required fees are assessed by credit hour, and are listed for all undergraduate students of The University of Mississippi on the Oxford campus for one semester of the academic year. Amounts are given for both residents and nonresidents of Mississippi; definitions of resident and nonresident students may be found at the end of this chapter.

Tuition (Including Required Fees) for Undergraduates

Note: All amounts given in this chapter are valid for 2005 only and are subject to change. Please contact the Office of the Bursar at (800) 891-4596 for further information.

Credit Hours	Most Students		Professional Pharmacy Students*			
	Resident Total	Nonresident Total	P1 and P2 students		P3 and P4 students	
			Resident Total	Nonresident Total	Resident Total	Nonresident Total
1	171.25	386.00	215.75	470.75	319.50	554.75
2	342.50	772.00	431.50	941.50	639.00	1,109.50
3	513.75	1,158.00	647.25	1,412.25	958.50	1,664.25
4	685.00	1,544.00	863.00	1,883.00	1,278.00	2,219.00
5	856.25	1,930.00	1,078.75	2,353.75	1,597.50	2,773.75
6	1,027.50	2,316.00	1,294.50	2,824.50	1,917.00	3,328.50
7	1,198.75	2,702.00	1,510.25	3,295.25	2,236.50	3,883.25
8	1,370.00	3,088.00	1,726.00	3,766.00	2,556.00	4,438.00
9	1,541.25	3,474.00	1,941.75	4,236.75	2,875.50	4,992.75
10	1,712.50	3,860.00	2,157.50	4,707.50	3,195.00	5,547.50
11	1,883.75	4,246.00	2,373.25	5,178.25	3,514.50	6,102.25
12-19 (full-time)	2,055.00	4,632.00	2,589.00	5,649.00	3,834.00	6,657.00

Undergraduate students who enroll for 20 or more semester hours are assessed a tuition of \$171.25 for each hour over 19. This charge is in addition to the tuition for a full-time undergraduate student.

Undergraduate Credit-Hour Costs for the Summer Session

Tuition (including Required Fees, per semester hour).....	171.25
Nonresident Fees (per semester hour)	43.00

Auditing Fee • The fee for auditing is the same as tuition for the same number of credit hours.

*These figures are for P1, P2, P3, and P4 students. The amount for P5 and P6 students at The University of Mississippi Medical Center in Jackson is \$9,115 annually for residents and \$16,003 annually for nonresidents.

HOUSING EXPENSES

Residence Hall Rent per student for a standard air conditioned room, with local telephone and cable television service, is shown in the table below. Single occupancy of rooms is only possible on a space-available basis. Students should contact Student Housing and Residence Life for summer semester rental rates and Village housing apartment rental rates. Shown below are the 2004-05 room rates. Room rates for 2005-06 are subject to change.

	Fall or Spring Semester two occupants per room	single occupancy
Hefley/Deaton	1,580	2,160
Miller Hall (1st floor)	1,420	2,010
Guess Hall	1,470	2,230
Howry/Falkner	—	2,010
Other halls	1,420	2,010
Application prepayment		100.00
Village housing apartment reservation deposit (refundable).....		25.00
Village housing apartment prepayment (\$75 refundable).....		175.00

FOOD EXPENSES

Ole Miss Meal Plan • All resident freshmen **MUST** purchase a meal plan **both fall and spring** semesters of their freshman year. If no spring meal plan is selected, students will be automatically assessed for the same meal plan as fall semester. Those billed for the \$545 “6 Weeks Plan” fall semester will automatically be assessed \$540 Flex Dollars. Students may change their plan during the **first two weeks** of the semester with charges pro-rated accordingly. All meals are served in Paul B. Johnson Commons Dining Center.

Meal Plan Options:

Board Meals	Weekly Meals	Flex Money	Total Plan Costs
231 meals	unlimited	\$85	\$899
178 meals	10	\$100	\$860
127 meals	7	\$150	\$736
92 meals	5	\$155	\$685
72 meals (fall semester)	8 for six weeks	\$225	\$545
Flex Money	0	\$540	\$540

The board meals are an “All you Can Eat” concept served in the Johnson Commons Dining Center only. Flex money can be used in all food outlets, convenience stores, and vending machines on campus. Any money remaining in the declining balance (Flex Money Food Account) at the end of each semester will carry forward to the next academic term for food purchases.

OTHER EXPENSES

APPLICATION FEE for nonresidents25.00

COURSE CHANGE FEE

For each add and each drop made after the last day to register.....5.00

SPECIAL CLASS FEE charged on certain courses ranging from \$5 to \$30 per hour.

REGISTRATION FEE

The University's registration process consists of three phases. You may register for courses during any of the phases; however, a nonrefundable registration fee of \$50 for Phase 2 registration or \$100 for Phase 3 registration will be assessed. As an incentive for students who register early, the University will waive the registration fee for students who register during Phase 1. The fee is also waived if you are a newly admitted student registering at Ole Miss for the first time. The dates for Phase 1, 2, and 3 registration periods are published in the Academic Calendar and the Schedule of Classes for each semester.

CANCELLATION FEEthe lesser of \$100 or

Assessed when a student cancels enrollment 5 percent of total assessment after classes officially begin.

This fee also is applicable to students who withdraw during the 100 percent refund period.

There is no fee if a student officially withdraws prior to the first day of classes.

INTERNATIONAL STUDENT SERVICE FEE

Fall or spring semester.....100.00

Summer term30.00 per term

INTERNATIONAL STUDENT INSURANCE FEE

Fall semester345.00

Spring semester (includes coverage during summer terms)483.00

ENGLISH AS A SECOND LANGUAGE PROGRAM

Tuition for one semester2,450.00

Books for one semester127.00

EXAMINATION FEES

American College Test

National20.00

Residual20.00

Advanced Standing Examination, per semester hour5.00

RETURNED CHECK FEE.....20.00

ID CARD REPLACEMENT FEE.....25.00

PERSONAL EXPENSES

Ole Miss Express • The Ole Miss Express account is a declining balance spending program that works like a debit card. This plan is optional and not a requirement. Deposits may be made throughout the year at the ID Center, the Bursar's Office, Stockard/Martin Fluff n' Fold, or the Central Ticket Office. The Ole Miss Express account can be used to make purchases throughout campus, including all food service locations, selected laundry facilities, snack and beverage vending machines, Ole Miss Bookstore, Central Ticket Office, Rebel Shop, and participating off-campus locations.

Books • New and used textbooks can be purchased at the Ole Miss Bookstore. The cost of new books per semester is about \$400 for freshmen and most other undergraduate students. However, by taking advantage of used books available at the bookstore, students can reduce the cost to about \$300 a semester. The Ole Miss Express is honored at the bookstore.

Other Expenses • Students should budget for other personal expenses that may arise, such as clothing, supplies, transportation, and entertainment.

PAYMENT OF FEES

The billing and due dates for tuition and fees (housing, meal plan, special course fees, international student fees/insurance, and registration fees) occur on the following dates (or the last working day of the month if the billing date falls on a weekend or the previous working day if the due date falls on a weekend or holiday):

Enrollment Period	Billing Date	Due Date
Fall Semester	July 31	August 15
Wintersession, Spring Semester	November 30	December 15
Intersession, Full Summer, & 1st Summer	April 30	May 15
2nd Summer	May 31	June 15

If payment is not received by the due date, a monthly 1.5 percent service fee will be assessed on the unpaid balance of tuition and fees. Payments may be made during the enrollment period; however, to avoid holds on future registration periods, tuition and fees must be paid in full, and other charges cannot be more than 30 days old.

The begin date for the calculation of the 1.5 percent service fee is the due date regardless of the date that a student obtains a schedule. For example, if a student registers for the fall semester on August 25, and payment is not made by August 15, the student account is subject to a 1.5 percent service fee on the unpaid tuition and fees.

DELINQUENT ACCOUNTS

Regular student account balances and student loan balances are collected by the Bursar's Office, and, if not paid, constitute a delinquent account. The University reserves the right to withhold re-admission to a student until all delinquent amounts owed to the University have been paid. Diplomas and course transcripts are not issued for students whose accounts are delinquent. Delinquent accounts may be referred to a collection agency, in which case the account will be assessed all costs of collection, including reasonable attorney fees, whether or not a lawsuit is commenced as part of the collection process.

REFUND POLICIES

1. If you are unable to attend UM for any reason, you must officially withdraw by sending a signed letter addressed to the Registrar's Office.
 - a. You are responsible for sending a letter as soon as you know that you will not be attending UM.
 - b. Your letter can be mailed or faxed.
 - c. To avoid a financial obligation to UM, the letter must be postmarked or the fax must be sent **PRIOR** to the first day of classes for the semester or term.
 - d. If you officially withdraw **PRIOR** to the first day of classes for the semester or term, you will receive a credit for 100 percent of tuition, fees (with the exception of the nonrefundable registration fee), housing, and any remaining balance on meal plan or Ole Miss Express.
 - i. Any financial aid that you received for the semester or term must be repaid in full, and will be posted to your student account in the Bursar's Office.
2. **After classes begin**, UM has **two withdrawal/drop periods**. One period pertains to refunding of tuition and fees, and the other period pertains to recording of grades on your transcript.
 - a. The periods for withdrawing from UM or dropping from full-time to part-time status to receive a **refund of tuition and fees** are as follows:
 - i. Fall or spring semester
 1. First 10 class days of the semester
 2. **There are no refunds after the 10th class day.**
 - ii. Intersession (summer or winter)
 1. First two class days of the term
 2. **There are no refunds after the second class day.**
 - iii. Full summer term (pertains only to a course that is taught the full eight-week term)
 1. First five class days of the term
 2. **There are no refunds after the fifth class day.**
 - iv. First or second summer terms
 1. First three class days of the term
 2. **There are no refunds after the third class day.**
 - v. Refunds are determined as follows:
 1. If you **withdraw** from UM during the refund period, you will receive a 100 percent refund of tuition less a processing fee of up to \$100.

- a. If you receive any financial aid, the Office of Financial Aid will perform a calculation to determine a prorated amount of funds that must be repaid. Any repayments will be posted to your student account in the Bursar's Office.
 - b. Certain fees are nonrefundable such as registration fee and international student health insurance.
 - c. Refunds for meal plans and Ole Miss Express are determined by the ID Center.
 - d. Refunds for housing charges are determined by the Department of Student Housing and Residence Life.
2. If you **drop from full-time to part-time status** during the refund period, you will receive a 100 percent refund of tuition for the difference between full time and part time.
 - a. If you receive any financial aid, the Office of Financial Aid will perform a calculation to determine a prorated amount of funds that must be repaid. Any repayments will be posted to your student account in the Bursar's Office.
 - b. Certain fees are nonrefundable such as registration fee and international student health insurance.
- b. The periods for dropping a course for the purpose of **avoiding grade liability** are as follows:
 - i. Fall or spring semester
 1. First 25 class days of the semester
 2. **"W" or "F" grades are given for classes dropped after the 25th class day.**
 - ii. Intersession
 1. First four class days of the term
 2. **"W" or "F" grades are given for classes dropped after the fourth class day.**
 - iii. Full summer term (pertains only to a course that is taught the full eight-week term)
 1. First 20 class days of the term
 2. **"W" or "F" grades are given for classes dropped after the 20th class day.**
 - iv. First or second summer terms
 1. First 10 class days of the term
 2. **"W" or "F" grades are given for classes dropped after the 10th class day.**

Ole Miss Express Refund Policy • All Ole Miss Express account balances are carried forward each semester. Using the remainder of the balance or requesting a refund can close an account. Accounts are closed should a member not re-enroll at the University and the Ole Miss Express account remains inactive. Balances less than \$23 will not be refunded.

All refund requests must be submitted in writing to the ID Center. Refunds to transferring or withdrawing students will be made upon request. Refunds to students upon graduation will be processed without charge. All other refunds will require a \$20 processing fee, which is deducted from the member's remaining account balance. Any refund made above the processing fee will first be applied to any unpaid balance on that student's account at the Office of the Bursar. Refunds will be forwarded to the member's permanent home address.

Freshmen Flex Refund Policy: Flex money is not lost if a freshman does not use it all in one semester; it remains on his or her card. The balance carried forward may not be used to meet the second semester required amount. Flex refund requests may only be processed if the student officially withdraws or transfers from the University as described earlier or if one is not returning to the University. If the student does not submit an acceptance letter from another institution, a refund will be made after the close of enrollment for the next academic semester. There will be a \$20 drop fee, and the University will refund the remaining balance to the last known home address after any bursar account balances are deducted.

Meal Plan Refund Policy: Changes in a meal plan resulting in a lesser plan are allowed only during the first two weeks of the semester. Meal plan adjustments are calculated on the board meal value. Campus-housed freshmen are granted refunds only upon official **withdrawal** from the University. Refunds are calculated using the following schedule:

MEAL PLAN REFUND SCHEDULE FOR STUDENTS WHO WITHDRAW FROM THE UNIVERSITY

Computed from the first day of registration:

First five working days	90%
Between 6 and 10 working days	70%
Between 11 and 15 working days	50%
Between 16 and 20 working days	30%
After 20 working days	0%

Nonfreshmen Meal Plan Refund Policy • Nonfreshmen may withdraw from any Meal Plan during the first 15 working days of a semester (computed from the first day of class). Refunds will be calculated according to the following schedule:

Computed from the first day of class:

First five working days	90%
Between 6 and 10 working days	70%
Between 11 and 15 working days	50%
After 15 working days	0%

Housing Application Prepayment Fee • The \$100 application prepayment fee is refundable if cancellation is made in writing to the Office of Student Housing and Residence Life no later than June 1.

Canceling Residence Hall or Village Housing Agreement • Requests for canceling a housing contract are subject to the terms of the Residence Hall Agreement or the Village Housing Rental Agreement and must be made in writing to the Office of Student Housing and Residence Life. In case of dismissal from the University during the contract period, the student will be financially responsible for the entire contract amount.

Committee on Refunds • Due to extenuating circumstances, students may petition for consideration of a tuition refund not provided for in the University's Refund Policy. Petitions with complete details of the situation including supporting documentation should be sent to Committee on Refunds, Office of the Bursar, P.O. Box 1848, University, Mississippi 38677. Petitions for refunds of housing costs should be sent to the Housing Appeals Committee, Student Housing and Residence Life.

SUMMARY OF ESTIMATED COSTS

Average cost per Mississippi resident for tuition, fees, room, food, and books is about \$10,600.00 for the academic year of two semesters. Other expenses for personal maintenance and recreation will have to be considered by each individual.

LEGAL RESIDENCE

Legal Residence of Students • The University applies the definitions and conditions stated here as required by state law in the classification of students as residents or nonresidents for the assessment of fees.

Requests for a review of residency classification should be submitted to the registrar; forms for this purpose are available from the Office of the Registrar. To be applicable for a particular semester, such requests must be accompanied by documentation that all residency requirements have been met by the last day to register for that semester.

MINORS—The legal residence of a person less than 21 years of age is that of the person's father. After the death of the father, the residence of the minor is that of the mother. If the parents are divorced, the residence of the minor is that of the parent who was granted custody by the court; or, if custody was not granted, the residence continues to be that of the father. If both parents are dead, the residence of the minor is that of the last surviving parent at the time of that parent's death, unless the minor lives with a legal guardian duly appointed by a proper court of Mississippi, in which case his residence becomes that of the guardian.

ADULTS—The legal residence of an adult is that place where he is domiciled, that is, the place where he actually physically resides with the intention of remaining there indefinitely or of returning there permanently when temporarily absent.

REMOVAL OF PARENTS FROM MISSISSIPPI—If the parents of a minor who is enrolled as a student in an institution of higher learning move their legal residence from the state of Mississippi, the minor is immediately classified as a nonresident student.

TWELVE MONTHS OF RESIDENCE REQUIRED—No student may be admitted to the University as a resident of Mississippi unless his residence, as defined above, has been in the state for a continuous period of at least 12 months immediately preceding his admission.

RESIDENCE IN AN EDUCATIONAL INSTITUTION CAN BE COUNTED—A student who has lived within the state for 12 months following his twenty-first birthday may establish residence in his own right by showing that he is living in the state with the intention of abandoning his former domicile and remaining in the state permanently, or for an indefinite length of time.

RESIDENCE STATUS OF A MARRIED STUDENT—A married student may claim the residence of the spouse, or may claim independent residence status under the same regulations, set forth above, as any other adult.

CHILDREN OF PARENTS WHO ARE EMPLOYED BY THE UNIVERSITY—Dependent children of parents who are members of the faculty or staff of the University may be classified as residents without regard to the residence requirement of 12 months.

MILITARY PERSONNEL ASSIGNED ON ACTIVE DUTY STATION IN MISSISSIPPI—Members of the U.S. armed forces on extended active duty and stationed within Mississippi may be classified as residents, without regard to the residence requirement of 12 months, for the purpose of attendance at the University. Resident status of such military personnel who are not legal residents of Mississippi (as defined in Section 37-103-13 of House Bill 409, passed during the 1988 session of the Mississippi Legislature) shall terminate upon their reassignment for duty in the continental United States outside the state of Mississippi.

CHILDREN OF MILITARY PERSONNEL—Resident status of children of members of the armed forces on extended active duty shall be that of the military parent for the purpose of attending the University during the time that their military parents are stationed within Mississippi and shall be continued through the time that military parents are stationed in an overseas area with last duty assignment within the state. Resident status of minor children shall terminate upon reassignment under permanent change of station orders of their military parents for duty in the continental United States outside the state of Mississippi, excepting temporary training assignments en route from Mississippi.

CERTIFICATION OF RESIDENCE OF MILITARY PERSONNEL—A military person on active duty stationed in Mississippi who wishes to avail himself or his dependents of the provisions of the paragraph titled "Military Personnel Assigned on Active Duty Station in Mississippi" must submit a certificate from the military organization showing the name of the military member, the name of the dependent, if for a dependent, the name of the organization of assignment and its address (may be in the letterhead), that the military member will be on active duty stationed in Mississippi on the date of registration at the University; that the military member is not on transfer orders; and the signature of the commanding officer, the adjutant, or the personnel officer of unit of assignment with signer's rank and title. A military certificate must be presented to the registrar of the University each semester at (or within 10 days prior to) registration for the provisions of the paragraph "Military Personnel Assigned Active Duty Station in Mississippi," named above, to be effective.

FAMILIES OF STUDENTS—The spouse and children of a nonresident student who pays or receives a waiver of the nonresident fee may enroll in the University upon payment of the appropriate fees charged to a resident. Nonresident fees for spouses and children of part-time nonresident students will be prorated.

Responsibility of Students • Residency classification of an applicant for admission is determined by the Office of Admissions and is stated on the Admission Certificate issued. Students should notify the registrar immediately by letter of any change in legal residence.

Financial Aid

In order to be considered for aid, students may be required to submit one or more applications to the Office of Financial Aid and the federal government. Incoming freshmen who wish to be considered for internal scholarships based on academics, leadership, and/or merit must complete the online scholarship application (http://www.olemiss.edu/depts/financial_aid/) when applying for admission, but no later than the final deadline of April 1 in the year of enrollment. Exceptions to this include departmentally awarded scholarships, child of faculty and staff benefits, and non-resident alumni awards, all of which have specific requirements outlined in the General Scholarship Description section. Students wishing to apply for all need-based scholarships and federal aid must complete the Free Application for Federal Student Aid (FAFSA) at www.fafsa.ed.gov. Students and parents who wish to participate in the Stafford and Parent Loan Programs must also complete the FAFSA. When the FAFSA is submitted to the federal government's central processor, the student must designate The University of Mississippi (University, MS; federal school code 002440) as one of the college recipients. Although students may submit a FAFSA at any time prior to and during the school year, priority consideration for some grants and scholarships is given to those who are fully admitted to the University and have a valid Student Aid Report (SAR, the processed FAFSA) on file with the University by March 15. For this reason, it is recommended that the FAFSA be submitted by February 15 to the central processor in order to meet these timelines.

Scholarship awarding typically begins in mid-February and continues through April depending upon available funding. Federal and state grants and loans will be awarded starting in April and then throughout the academic year.

Federal Work-Study Program • This program provides jobs for undergraduate and graduate students as a part of their aid package. Work-Study is awarded based on financial need.

Grants • Grants are provided from federal and state sources for qualifying students.

FEDERAL PELL GRANT is awarded on the basis of need as calculated by the FAFSA. It is an entitlement to those students who have an Expected Family Contribution (EFC) on the SAR that falls within a specific range. The value of the award varies based on the EFC of each student. The maximum Pell Grant for 2004/2005 was \$4,050 per year. Only undergraduates or those students who do not have a prior undergraduate degree qualify. Awards are available to full-time and less than full-time students.

MISSISSIPPI TUITION ASSISTANCE GRANT (MTAG) is available to current legal residents of Mississippi who are enrolled as full-time undergraduates. In most cases, the student must have a high school grade-point average of 2.5 on a 4.0 scale and a minimum ACT of 15. MTAG is prorated for those students who receive the Pell Grant; therefore, students who receive the maximum Pell award will not be eligible for MTAG. To apply, students must complete the online state grant application available at www.ihl.state.ms.us/financialaid. All requirements must be completed by the MTAG/MESG deadline as established each year by the State of Mississippi.

MISSISSIPPI EMINENT SCHOLARS GRANT (MESG) is available to current legal residents of Mississippi who are enrolled as full-time, "first-time-in-college" undergraduates. In most cases, the student must have a high school grade-point average of 3.5 on a 4.0 scale and a minimum ACT of 29. National Merit/National Achievement semifinalists with a 3.5 grade-point average qualify without the test score. To apply, students must complete the online state grant application available at www.ihl.state.ms.us/financialaid. All requirements must be completed by the MTAG/MESG deadline as established each year by the State of Mississippi.

GENERAL SCHOLARSHIPS

The scholarships listed in this section of the 2005-06 Undergraduate Catalog are offered primarily to incoming freshmen and community college transfer students attending The University of Mississippi. Many of these scholarships have been made available through the generous donations of alumni and friends of the University. Incoming freshmen wishing to be considered for a scholarship must file a University of Mississippi application for admission and a general scholarship application, both of which are available on the Admissions Web site. Official copies of ACT and SAT scores, along with high school transcripts, should be received by the Admissions Office no later than February 1 in order for the student to be admitted timely and considered for scholarships in the first round of awarding. The final deadline for the scholarship application is April 1. Students can continue to submit new ACT or SAT scores through the April test of the ACT or the March test date of the SAT.

Fee-Specific Scholarships • The value of a fee-based scholarship is based upon the amount of its associated fee (such as tuition, housing, nonresident charges) as itemized on the bursar bill, but is capped at the amount listed in the package. The University will not process fee-specific scholarships when such awards exceed the amount of the charge. Therefore, if there is no associated fee, the scholarship does not pay. Although it is possible to have more than one fee-specific scholarship targeting the same fee, the combination of credits from these scholarships cannot exceed the amount of that fee. For example, two scholarships that cover nonresident tuition will only pay up to the amount of the nonresident charge. The student cannot receive the difference in a refund.

Academic Excellence Scholarships Available to Qualified Entering Freshmen

National Merit: The Academic Excellence National Merit Award is available to Merit and Achievement Semifinalists with priority consideration given to those freshmen who are fully admitted and have completed a scholarship application by April 1. This scholarship cannot be stacked with other Academic Excellence scholarships listed in this section. The National Merit Award includes a housing scholarship (valued at the cost of one double-occupancy room in a standard residence hall) and a stipend. The stipend is granted for four years (maximum eight regular semesters) based on full-time, continuous enrollment and a 3.0 GPA maintenance. The housing scholarship is granted for four years (maximum of eight semesters). It applies toward on-campus housing only for the first two years. If the student fulfills the obligation of on-campus housing for the first two years, the final two years of the scholarship can be awarded as an off-campus housing stipend. Semifinalist non-residents will receive an additional \$2,000 per year towards the nonresident fee. **FINALISTS:** National Merit/Achievement Finalists who list The University of Mississippi as their first choice college will receive an additional \$2,000 (\$500 per year) to be granted in conjunction with the Academic Excellence National Merit Award. Non-resident finalists will also receive the full non-resident scholarship to cover the full non-resident fee. Finalist awards must be confirmed by the student and the National Merit Scholarship Corporation. Students must fax a copy of their finalist letter to The University of Mississippi Office of Financial Aid by May 31 in order to be considered for these additional scholarships.

ACADEMIC EXCELLENCE SCHOLARSHIPS: Entering freshmen with a minimum cumulative high school GPA of 3.0 or higher and a minimum test score of 26 ACT or 1170 SAT are eligible for Academic Excellence Scholarships. Awarding begins in February and will be on a competitive, funds-available basis. Award amounts range from \$3,000-\$10,000 (\$750-\$2,500 per year). Non-residents

who have a minimum test score of 28 ACT or 1240 SAT will be eligible to receive an additional non-resident award for \$2,000 towards the non-resident fee. In order to be considered for any Academic Excellence Awards, a student must be fully admitted to the University and have a completed scholarship application on file with The University of Mississippi Office of Financial Aid. Priority date for submission of these applications is February 1 with a final deadline of April 1.

Sally McDonnell Barksdale Honors College

Each year, the Sally McDonnell Barksdale Honors College awards approximately 16 scholarships to incoming freshmen. These scholarships are very competitive and are based on the application for admission to the Honors College. Students must also apply to and be accepted by the University Office of Admissions. The scholarships are funded by three endowments:

MCDONNELL-BARKSDALE SCHOLARSHIP. Scholarships of \$6,000 per year are awarded based on academic merit to freshmen Mississippi residents enrolled in the Honors College.

PICHITINO SCHOLARSHIP. Scholarship awards of \$6,000 per year are made based on academic merit to freshmen enrolled in the Honors College.

HAROLD PARKER MEMORIAL SCHOLARSHIP. Scholarship awards of \$6,000 per year are made based on academic merit to freshmen enrolled in the Honors College.

Additional information and applications can be obtained from the Sally McDonnell Barksdale Honors College.

Croft Institute for International Studies

CROFT SCHOLARSHIP. Students planning to major in international studies must apply for admission directly to the Croft Institute for International Studies, in addition to filing an application for admission with the Office of Undergraduate Admissions, to be considered for Croft Scholarships. Each year 10 new students are selected for four-year scholarships worth \$8,000 annually. Priority consideration is given to those students who are fully admitted to the University and whose Croft Institute applications are received by February 1. Additional information and applications can be obtained from the Croft Institute for International Studies.

Community College Transfer Student Scholarships

THE COMMUNITY COLLEGE EXCELLENCE AWARD is awarded to the most outstanding community college student in Mississippi. The amount of the award is \$13,000 (\$6,500 per year, or \$3,250 per semester for two years). Candidates must be nominated by the community college they attend. Contact the Community College representative in the Office of Admissions.

LEADERSHIP SCHOLARSHIPS are awarded to as many as 15 transferring community college leaders. To be eligible, a student must have a minimum grade-point average of 3.0, at least 60 transferable hours from the community college, and must have an outstanding record of leadership and service on the community college campus. Contact the Community College representative in the Office of Admissions.

THE PHI THETA KAPPA ACADEMIC EXCELLENCE SCHOLARSHIPS are awarded to community college transfer students who are members of Phi Theta Kappa, who have a minimum grade-point average of 3.5, and who transfer a minimum of 60 hours of academic community college credit. The amount of the award is \$2,800 (\$700 per semester for two years). Contact the Office of Financial Aid or the Community College representative in the Office of Admissions.

Additional Scholarships

THE ROBERT M. CARRIER SCHOLARSHIPS. The Robert M. and Lenore W. Carrier Foundation Endowment provides scholarships for graduates of Mississippi high schools at the University. A committee appointed by the foundation selects outstanding young people to whom these awards are offered. The Carrier Scholarship is highly competitive and requires a separate application process. High school counselors or principals wishing to nominate a student can obtain an application by contacting the Office of Admissions.

THE W.R. NEWMAN SCHOLARSHIP was established in 1983 by the family of the late Mr. Newman. The award is made for eight semesters to students who demonstrate exceptional academic ability. The Newman Scholarship is highly competitive and requires a separate application process. High school counselors or principals wishing to nominate a student can obtain an application by contacting the Office of Admissions.

THE LUCKYDAY MERIT SCHOLARSHIP and **THE LUCKYDAY COMPUTER SCHOLARSHIP** are available to all National Merit/Achievement Finalists who are residents of Mississippi. The Luckyday Merit Scholarship is competitive with minimum annual awards of \$2,500; the Luckyday Computer Scholarship is a one-year award worth up to \$3,000 to defray the cost of a computer. Students who qualify for the Computer Scholarship must complete a Computer Purchase Increase request with the Office of Financial Aid. This form and the instructions are available online.

THE CHANCELLOR'S LEADERSHIP CLASS SCHOLARSHIPS total \$1,000 (\$500 per semester for one year). Members of the Chancellor's Leadership Class must exhibit outstanding leadership, a strong classroom performance, be nominated by their high school principals, and selected by the Chancellor's Leadership Class Committee. This scholarship is for one year only. If the recipient has been awarded an Academic Excellence Scholarship, the total of the two awards may not exceed \$1,000. Nomination forms are sent to all Mississippi principals and to selected out-of-state schools around March 1. Nominations should be returned by April 1.

THE HIGH SCHOOL VALEDICTORIAN SCHOLARSHIP is offered to students who are ranked No. 1 in their graduating class at a Mississippi high school. Priority consideration is given to those students who are fully admitted to the University by February 1. The award is \$1,000 for the first year only (\$500 per semester). This scholarship is for one year only. If the recipient has been awarded an Academic Excellence Scholarship, the total of the two awards may not exceed \$1,000.

THE MR. AND MRS. E.H. SUMNERS FOUNDATION GRANTS, established in 1977 by Mrs. Sumners of Eupora, Mississippi, to provide grant assistance for students from Attala, Carroll, Choctaw, Montgomery, and Webster counties who are enrolled at the University. There is a separate Sumner's Grant Application available online at http://www.olemiss.edu/depts/financial_aid/. Awarded amounts can vary from year to year and final eligibility is determined by the Sumner Foundation.

THE LUCKYDAY OPPORTUNITY AWARD is available to entering Mississippi freshmen who attain a 20 or higher on the ACT and a 3.2 or higher high school cumulative GPA. In order to be considered for this award, a student must complete the university scholarship application by February 15 and must have filed the FAFSA by February 15. The Student Aid Report must be complete by the time awarding begins in order to be considered. Awards are granted on a funds-available basis.

THE NONRESIDENT ALUMNI AWARD is available to entering undergraduate, graduate, or law students who are nonresidents of Mississippi, provided either parent is a former University student who was enrolled as a full-time student for six regular semesters of attendance during an academic year or received a degree from the University. Independent students and students who are classified as Mississippi residents are not eligible for this award. This award, if combined with other non-resident scholarships, cannot exceed the amount of the non-resident fee. This award covers \$750 per semester of nonresident tuition. It is renewable provided the student maintains a 2.5 grade-point average.

THE CHILDREN OF FACULTY/STAFF SCHOLARSHIP was established for dependent undergraduate children of permanent full-time faculty and staff members. If the parent was employed prior to July 1, 1977, the scholarship will cover 100 percent of tuition. If the parent was employed on or after July 1, 1977, the scholarship is 50 percent of the tuition charge.

FOREIGN STUDENT SCHOLARSHIPS. The University offers a limited number of scholarships to foreign students. Application should be made to the Office of International Programs.

Endowed Scholarships

The following parties have made contributions to The University of Mississippi that are specifically designated for scholarships. Each year, based on the availability of funds, these scholarships are awarded by a University committee to qualifying freshmen or transfer students, with preference given to freshmen. In order to be automatically considered for awarding, students should be fully admitted to the University with a completed University scholarship application filed by February 1, but no later than April 1. For a full description of these scholarships please visit http://www.olemiss.edu/depts/financial_aid/.

THE JULIE JABOUR ABRAHAM MEMORIAL SCHOLARSHIP was established in 1993 by Mr. and Mrs. Frederick Abraham of Vicksburg, Mississippi, in memory of their daughter.

THE ALUMNI ASSOCIATION ENDOWED SCHOLARSHIP was established in 1988 by The University of Mississippi Alumni Association.

THE AMITE COUNTY FARM BUREAU SCHOLARSHIP was established in 2004 by Amite County Farm Bureau.

THE JAMES BUFORD ANDERSON MEMORIAL SCHOLARSHIPS were established in 1954 by the late Mrs. Anderson of Sumner.

THE ASBURY FOUNDATION SCHOLARSHIP was established in 2002 by the Asbury Foundation, represented by William K. Ray.

THE NEAL ATKINS/ALCORN COUNTY ALUMNI CLUB SCHOLARSHIP was established in 2001 by the Alcorn County Alumni Club in honor of Neal Atkins.

THE ATTALA COUNTY/OLE MISS CLUB ENDOWMENT FUND was established in 2000 by the Attala County Ole Miss Club.

THE FRANK BAINBRIDGE MEMORIAL SCHOLARSHIP was established in 1997 by Ms. Philippa Straus of Birmingham, Alabama.

THE BETTY MAGEE BAIRD SCHOLARSHIP ENDOWMENT was established in 2004 by the estate of Mrs. Betty M. Baird, as represented by David P. Baird.

THE CATHERINE ABEL BAKER MEMORIAL SCHOLARSHIP was established in 2000 by G. Michael Baker of Hopkinsville, Kentucky, in memory of his wife.

THE CHARLES M. BAKER MEMORIAL SCHOLARSHIP was established in 1980 by the Sigma Alpha Epsilon Fraternity in memory of Charles Baker of Greenville, Mississippi, and has been sustained by his father, Mr. Edgar V. Baker of Greenville.

THE ROBERT G. BARNETT FOUNDATION SCHOLARSHIP was established in 2000 to assist deserving students from Sunflower County, Mississippi.

THE CHARLES BARRETT MEMORIAL SCHOLARSHIP was established in 2002 by Elizabeth and Richard Dean of Cary, North Carolina, to honor Charles Sebastian Barrett.

THE BATON ROUGE CHAPTER OF THE OLE MISS ALUMNI ASSOCIATION SCHOLARSHIP was established in 1972 for the benefit of students attending the University from the Baton Rouge, Louisiana, area.

THE JOSEPH E. BERMAN MEMORIAL SCHOLARSHIP was established in 1984 by the family of the late Mr. Berman to assist deserving students pursuing an education at the University.

THE FARRELL BERRYHILL SCHOLARSHIP was established in 1993 by the First National Bank of Pontotoc, Mississippi, in memory of Mr. Berryhill.

THE IONE KENT BISHOP LEADERSHIP SCHOLARSHIP ENDOWMENT was established in 1984 by Dr. Frank Watt Bishop to honor in perpetuity his grandmother, Ione Kent Bishop.

THE BERT BLACK MEMORIAL SCHOLARSHIP was established in 1996 by Robert and Jane Black of Tupelo, Mississippi, in memory of their son.

THE JOSEPH WILEY BLACKSTON MEMORIAL SCHOLARSHIP was established in 1987 by friends of colleagues of the late Joseph Wiley Blackston.

THE BERNARD BROWN BLACKWELL, SR., MEMORIAL SCHOLARSHIP was established in 1994 by Mary C. Blackwell of Clinton, Mississippi, in memory of her husband.

The DARYL BLAIR MEMORIAL SCHOLARSHIP was established in 1998 through a bequest.

THE MR. AND MRS. JAMES DICKSON BOMBOY SCHOLARSHIP was established in 1985 by Dr. David Bomboy of Hattiesburg, Mississippi, to honor the parents of the donor.

THE BOYD, CARLSON, ELEAZER, ESTES, FLETCHER (BCEEF) MEMORIAL SCHOLARSHIP FOR STUDENT LEADERS was established in honor of these fine University students.

THE CALHOUN COUNTY SCHOLARSHIP was established by Calhoun County alumni.

THE MIKE CARMICHAEL MEMORIAL SCHOLARSHIP was established in 1990 by the parents of the late Mr. Carmichael of Jackson, Mississippi.

THE DAVID CARR MEMORIAL SCHOLARSHIP was established in 1979 by members of Phi Delta Theta Fraternity and friends in memory of Mr. Carr.

THE CENTRAL MISSISSIPPI ALUMNI CHAPTER SCHOLARSHIP was established in 1992 by the Central Mississippi Alumni Chapter.

THE LANE T. AND DOLORES CHANDLER MEMORIAL SCHOLARSHIP was established in 1989 by Mrs. Lane T. Chandler of Indianola, Mississippi.

THE CHI OMEGA MEMORIAL SERVICE AWARD ENDOWMENT was established in 1988 by the Tau Chapter of Chi Omega Sorority of The University of Mississippi.

THE CHICKASAW COUNTY STUDENT SCHOLARSHIP was established anonymously in 1993 to reward students from Chickasaw County.

THE JOHN S. CLARK MEMORIAL SCHOLARSHIP was established in 1984 to reward academic excellence and honor in perpetuity Mr. Clark of Taylorsville, Mississippi.

The HUGH N. CLAYTON/DISTRICT 1 OLE MISS ALUMNI CLUB SCHOLARSHIP was established in 1999 by the District 1 Ole Miss Alumni Club.

THE SKIP CLINE MEMORIAL SCHOLARSHIP was established in 1988 by the Alpha Upsilon Chapter of Kappa Alpha Order at The University of Mississippi, to honor the late Skip Cline.

THE CLOWER-WALTERS SCHOLARSHIP was established in 1974 by humorist Jerry Clower to honor Carl Walters, a veteran Mississippi sportswriter.

THE OTIS N. & LILY C. COOPER EDUCATION FUND was established in 2004 by Max D. Cooper, M.D., and Rosalie L. Cooper of Birmingham, Alabama.

THE JOHN HARPER COSSAR, JR., MEMORIAL SCHOLARSHIP was established in 1983 by Lee T. Cossar, the brother of John Cossar as a lasting memorial.

The L.O. CROSBY, JR., SCHOLARSHIP was established in 1972 by Mr. Crosby of Picayune, Mississippi, for entering freshmen or transfer students who are Mississippi residents.

THE L.O. AND VERNA CROSBY SCHOLARSHIP was established in 1989 to provide scholarships to deserving students from Marion, Lamar, Forrest, Perry, Greene, Pearl River, Stone, or George counties in Mississippi.

THE IMOGENE MAY AND LEO ALEXANDER CUTCLIFF MEMORIAL SCHOLARSHIP was established in 1960 by the Cutcliff family of Amory, Mississippi. Eligibility is based on scholarship, leadership, and need.

THE WILLIAM H. CUTCLIFF AND IMOGENE MAY CUTCLIFF SCHOLARSHIP was established by the Cutcliff family.

THE DALLAS-FORT WORTH OLE MISS CLUB SCHOLARSHIP ENDOWMENT was established in 2004 by the Dallas-Ft. Worth Ole Miss Club.

THE DAVIDSON M CLUB AND M CLUB ALUMNI ASSOCIATION ALL-AMERICAN SCHOLARSHIP was established in 1964 by the M Club Alumni Association and the M Club of The University of Mississippi.

THE JOSÉ LUIS DE LA VEGA MEMORIAL SCHOLARSHIP was established in 1998 by Terry and Margaret Stent of Stone Mountain, Georgia, in memory of their nephew.

THE PETE DEMANGE MEMORIAL SCHOLARSHIP was created in 1964 by Mr. and Mrs. A.P. deMange of Charleston, Mississippi, in memory of their son, Pete deMange.

THE DISTRICT 6 ALUMNI CLUB SCHOLARSHIP was established in 2000 by the District 6 Alumni Club.

THE DISTRICT 14 OLE MISS ALUMNI CLUB ENDOWED SCHOLARSHIP was established in 1994 by the District 14 Ole Miss Alumni Club.

THE CARTER DOBBS FAMILY/CALHOUN COUNTY SCHOLARSHIP was established by the Carter Dobbs family.

THE ED ELEAZER III MEMORIAL SCHOLARSHIP was established in 1996 by Katie and Ed Eleazer in memory of their son.

THE JESSE M. ELKIN MEMORIAL SCHOLARSHIP was established in 1985 by family and friends of the late Mr. Elkin of Columbus, Mississippi.

THE JOEY EMBRY MEMORIAL SCHOLARSHIP was established by family and friends in memory of Joey Embry, who as a student and member of the Ole Miss football team died in 1998.

THE EMERALD COAST ALUMNI CLUB was established for students from Florida.

THE HAILEY ESTES/MINDY CARLSON MEMORIAL DELTA GAMMA SCHOLARSHIP was established in 1996 by the Natchez Miss-Lou Delta Gamma Alumnae Association and the Delta Gamma Alpha Psi Chapter.

THE FRANK FAIR SCHOLARSHIP was established in 1986 by the family of Frank Love Fair of Louisville, Mississippi.

THE FARMERS GRAIN TERMINAL, INC., SCHOLARSHIP was established in 2004 by the Farmers Grain Terminal, Inc., represented by Humphreys McGee.

THE FARRELL SCHOLARSHIP FOR DESERVING STUDENTS was established through the bequest of James Parmer Farrell in 1996.

THE ELMER AND GLADYS FERGUSON SCHOLARSHIP was established in 1989 by Nancy F. and Nill Rasco, Rebecca F. and Michael Ehrlicher, Carolyn F. and Shap Pryor, Becca R. and Mike Cope, Kent R. and David Magee, Nancy Chris Ehrlicher, Hallic Melissa Ehrlicher, Rush and Lesley Mosby, Kip and Lyn Crawford and Pard Pryor, to honor the parents and grandparents of the donors, Elmer and Gladys Ferguson, of Dewitt, Arkansas.

THE ROBERT HOLMES FISHER/PHI DELTA THETA MEMORIAL SCHOLARSHIP was established in 1997 by Mr. and Mrs. J.C. Fisher of Fresno, California, in memory of their son, Robert Holmes Fisher, who was a student at the University in 1962 at the time of his death.

THE ROBERT E. AND BETH G. FONVILLE SCHOLARSHIP was established by Mr. Robert Fonville in 1996.

THE CHARLES NOLAN FORTENBERRY ENDOWMENT was established in 1999 by Ms. Mae E. Fortenberry of Auburn, Alabama.

THE ANNE S. AND CECIL C. FOX SCHOLARSHIP was established in 1998 by Anne and Cecil Fox of Canton, Mississippi.

THE MAUD DICKSON FRANKLIN MEMORIAL SCHOLARSHIP was established by the daughter of the late Mrs. Franklin as a lasting memorial to her mother.

THE WILLIAM L. AND MARY HALEY FULTON MEMORIAL SCHOLARSHIP was established in 1987 by the family of the late Mr. and Mrs. Fulton.

THE LANELLE GUYTON GAFFORD SCHOLARSHIP was established in 2000 by Lanelle Guyton Gafford of Jackson, Mississippi.

THE FRANK W. GAMBLIN MEMORIAL SCHOLARSHIP/LOAN FUND was established in 1980 by Mrs. Gamblin in memory of her husband.

THE THERESE L. GARNER SCHOLARSHIPS were established by the late Mrs. Garner in 1957.

THE JOHN AND DEAN S. GORDON SCHOLARSHIP was established in 1984 as an academic scholarship.

LEWIS AND FRANCES GRAEBER SCHOLARSHIP was established in 1997 by Lewis and Frances Graeber of Marks, Mississippi, to reward currently enrolled students.

THE GRESHAM-DUNCAN SCHOLARSHIP was established in 1962 to honor the memory of Mr. and Mrs. W.W. Gresham of Indianola, Mississippi, and Mrs. Gresham's mother, Mrs. Mary Lee Duncan.

THE WILLIAM AND MARY BETH GRIFFIN SCHOLARSHIP was established in 1994 through a bequest.

THE GROVE SOCIETY ACADEMIC SCHOLARSHIP was established in 2001 by the Department of Alumni Affairs at The University of Mississippi.

THE R. MALCOLM GUESS, GEORGE B. BANKS, AND JOHN DONOVAN READY SCHOLARSHIP was established in 1991 by William E. Ready and Julia B. Ready of Meridian, Mississippi.

THE JOSEPH WHELAN HAYS MEMORIAL SCHOLARSHIP was established by the family and friends of the late Mr. Hays of Moss Point, Mississippi.

THE ESTELLA G. HEFLEY AWARD was established in 1986 by members of Alpha Lambda Delta.

THE SUSAN B. HERRON MEMORIAL SCHOLARSHIP was established by Charles R. Herron III of Meridian, Mississippi.

THE GRAHAM H. HICKS MEMORIAL SCHOLARSHIP was established in 1990 by the family of the late Graham Hicks.

THE HUGH S. HOPKINS SCHOLARSHIP was established in 1993 by Dorothy Hopkins of Jackson, Mississippi.

THE LUCY SOMERVILLE HOWORTH AWARD was established in 1985 by the Sarah Isom Center for Women's Studies.

THE MR. AND MRS. DANIEL CLYDE HUGHES SCHOLARSHIP was established in 1983 by Mr. Dan C. Hughes, Jr., in honor of his parents.

THE PAULINE IRBY SCHOLARSHIP was established in 2000 by Pratt Irby of Fort Scott, Kansas, to honor in perpetuity his wife.

THE JACKSON TENNESSEE OLE MISS CLUB was established for students in the Jackson, Tennessee, area.

THE JOHN E. JOHNSON MEMORIAL ENDOWMENT FUND was created in 1968 by the bequest of the late Mr. Johnson.

THE LYDA B. & DR. PERCY JOHNSTON SCHOLARSHIP ENDOWMENT was established in 2001 by Percy W. Johnston, Jr., and Stephen G. Johnston, of Mobile, Alabama, to honor Dr. and Mrs. Johnston.

THE MONTFORT B. AND ALLIE BROWN JONES SCHOLARSHIPS were provided through the Montfort B. and Allie Brown Jones Foundation of Bristow, Oklahoma. The foundation was created in 1959 by the will of the late Mrs. Jones, a native of Sallis, Mississippi.

THE DENISE S. JOSEPH MEMORIAL SCHOLARSHIP was established in 1986 by Mr. and Mrs. Joseph Ellis, in memory of their daughter.

THE KAPPA DELTA-CHI OMEGA GREEK LIFE SCHOLARSHIP was established in 1988 by Alpha Mu-Mississippi Chapter Kappa Delta Sorority; the purpose of the scholarship fund is to honor the five Chi Omega sorority sisters who lost their lives during a charity project.

THE MR. AND MRS. JAMES E. KING LECTURESHIP was established in 1986 by Mr. and Mrs. Julius W. King of Laurel, Mississippi.

THE FELIX LaBAUVE SCHOLARSHIP was established by Col. Felix LaBauve to provide scholarship assistance to male orphans or a son of a widow from DeSoto County.

THE STACIE DIANNE LAMB MEMORIAL SCHOLARSHIP was established in 1982 by the Alpha Delta Chapter of Phi Mu Fraternity and family of the late Ms. Lamb.

THE A.C. "BUTCH" LAMBERT, SR., MEMORIAL SCHOLARSHIP was established in 1985 by family and friends of the late Mr. Lambert.

THE BERNARD LAPIDES SCHOLARSHIP was established by Wurzburg, Incorporated and the family of Mr. Lapides in 1999 to honor Mr. Lapides of Memphis, Tennessee.

THE JOHN AND NELLE LaRUE SCHOLARSHIP FUND was established through the generosity of Mr. R.B. LaRue, a 1917 graduate of the University, in memory of his late father and mother.

THE JOHN C. LATHAM SCHOLARSHIP was established through the estate of the late Mr. Latham.

THE LEE COUNTY OLE MISS SCHOLARSHIP was established for students of Lee County, Mississippi.

THE PATRICIA THOMPSON LOTT SCHOLARSHIP ENDOWMENT was established in 2004 by William Gottshall, Jr., Donna B. Gottshall, Gary L. Sisco, Mary Sue Sisco, Guy Hovis, and Sis Hovis.

THE CHALMERS L. LOUGHRIDGE AND ZEPHYR LOUGHRIDGE SPANN WIEGMAN SCHOLARSHIP was established in 1995 by Dr. Chalmers A. and Ruth E. Loughridge of Alexandria, Virginia.

THE ROBERT Y. LOVE SCHOLARSHIP was established by Mrs. Tressa Love in 1994 as a memorial to her husband.

THE MR. AND MRS. MORRIS F. LYNCH SCHOLARSHIP was established in 1985 by Mr. and Mrs. Lynch to assist deserving students in need of financial assistance.

THE RAYMOND E. MABUS, SR., MEMORIAL ENDOWMENT was established in 1986 by Raymond E. Mabus, Jr., of Jackson, Mississippi.

THE MADDOX FOUNDATION DESOTO CENTER 2+2 SCHOLARSHIP was established in 2001 by Robin Grindstaff, managing trustee of the Maddox Foundation, to honor Dr. Robert and Shirley Seymour.

The JACK MASON/4COUNTY EPA MEMORIAL SCHOLARSHIP was established in 1998 by Mrs. Jessie Mason.

THE ESTHER MATISON MEMORIAL SCHOLARSHIP was established in 1962 by the Jones County Chapter of the Ole Miss Alumni Association, through the generous donation of Mr. and Mrs. Harold Matison, made in memory of Mr. Matison's mother.

THE LOUISE THORNTON (LISA) McCAMIC MEMORIAL SCHOLARSHIP was established by the family of Louise McCamic in 1995.

THE IOLA T. McCLURKIN SCHOLARSHIP was established by the friends and family of Dr. McClurkin to honor her career as an educator.

THE ROBERT HILL McCORMICK SCHOLARSHIP was established in 1999 by David and Susan McCormick of Pascagoula, Mississippi, to honor Mr. McCormick's father, Robert Hill McCormick.

THE LYNN MEADOWS MEMORIAL SCHOLARSHIP was established in 1985 by Mr. and Mrs. Joseph R. Meadows of Gulfport, Mississippi, and son Joseph R. Meadows, Jr., of Dallas, Texas.

THE ED MEEK AWARD FOR ACHIEVEMENT/CHARLESTON HIGH SCHOOL ENDOWMENT was established in 2000 by colleagues and family to honor Dr. Ed Meek for his 37 years of dedicated service to The University of Mississippi.

THE ELMA MEEK SCHOLARSHIP was created originally in 1960 through an initiative led by Mississippi relatives George McLean of Tupelo and Margaret McLean McLaurin of Laurel.

THE MEMPHIS OLE MISS REBEL CLUB was established by the Memphis Rebel Club to assist selected students from the Memphis area attending the University.

THE MIDDLE TENNESSEE/CHRIS BONDS OLE MISS ALUMNI CHAPTER SCHOLARSHIP was established in 1987 by the Middle Tennessee Chapter of the Ole Miss Alumni Association.

THE MARTIN AND ALLEIN MILLER SCHOLARSHIP was established by the late Mr. Miller of Meridian to assist worthy residents of Mississippi.

THE MATT MILLER MEMORIAL SCHOLARSHIP was established in 1978 by the Central Division M Club Alumni Chapter to honor the memory of Mr. Miller of Jackson, Mississippi, a 1977 graduate of Murrah High School who was signed to a football scholarship by the University, but died in the summer of 1977 following a water skiing accident.

THE "MISS RUBY" SCHOLARSHIP was established in 1991 by Aldert S. Nall, Jr., of Houston, Texas, to honor in perpetuity his grandmother, Miss Ruby Hooks Eaves of Winston County, Mississippi.

THE LANCE L. MITCHELL, JR., MEMORIAL SCHOLARSHIP ENDOWMENT FUND was established by friends of the late Mr. Mitchell.

THE FRANKLIN E. MOAK DELTA PSI SCHOLARSHIP was established in 1994 by family and friends of Dr. Franklin E. Moak of Oxford, Mississippi.

THE BRICK MULLER MEMORIAL SCHOLARSHIP was established in 1987 by the family of the late Louis Frederick "Brick" Muller of Memphis.

THE ROY LEE "CHUCKY" MULLINS SCHOLARSHIP was established in 1992 to honor the memory of Chucky Mullins who was injured in a 1989 football game.

THE JOHN H. NAPIER, JR., AND LENA MAE TATE NAPIER MEMORIAL SCHOLARSHIP was established in 1989 by John Napier III and Francis Tate Napier.

THE NEWTON COUNTY ALUMNI CLUB was established in 2001 by the Newton County Alumni Club.

THE HERMAN AND HAZEL OWEN SCHOLARSHIP was established in 1986 by the Herman and Hazel Owen Foundation.

THE OXFORD BUSINESS WOMEN'S INITIATIVE ENDOWMENT FUND was established by business women of Oxford, Mississippi.

THE HAROLD PARKER, JR., MEMORIAL SCHOLARSHIP was established in 1997 by the estate of Katharine L. Parker.

THE PASS-IT-ALONG SCHOLARSHIP FUND was established in 1960 by a husband and wife of Meridian, Mississippi, both of whom are outstanding alumni.

THE CLYDE PEEPLES, KATHLEEN PEEPLES, AND MILDRED PEEPLES SMITH MEMORIAL SCHOLARSHIP was established in 1989.

THE OTHO E. PETTIT, JR., AND GAIL THARP PETTIT ENDOWMENT was established in 1994 by Otho E. Pettit of Kosciusko, Mississippi.

THE PHI KAPPA PHI SCHOLARSHIP was established in 1984 by The University of Mississippi Chapter of the Phi Kappa Phi honor society.

THE EMILY J. POINTER TRUST SCHOLARSHIP was established by Emily Jones Pointer of Panola County, Mississippi.

THE BILLY H. QUIN-WARREN COUNTY OLE MISS ALUMNI ASSOCIATION SCHOLARSHIP FOUNDATION was established in 1972 by the Warren County Ole Miss Alumni Association in honor of Mr. Quin, an alumnus of Ole Miss.

THE C.T. AND EARLINE RAMZY MEMORIAL SCHOLARSHIP was established in 1995 through a testamentary gift from the estate of Mrs. Earline Ramzy.

THE REPUBLICAN LEADERSHIP SCHOLARSHIP was established in 1985 by the Honorable C. Trent Lott, U.S. senator from Mississippi.

THE RESIDENTIAL SCHOLARS SCHOLARSHIP ENDOWMENT was established in 2000 by the Office of Student Housing and Residence Life and the Residence Hall Association.

THE THOMAS ARNY RHODEN SCHOLARSHIP ENDOWMENT was established in 2001 by Thomas H. Rhoden, of Jackson, Mississippi, to honor Thomas Rhoden, class of 1935.

THE FANNIE CRITZ RICHARDSON MEMORIAL SCHOLARSHIP was established in March, 1944, by the Dixie Chapter of the United Daughters of the Confederacy in Pasadena, California, to honor Mrs. Richardson, the chapter's founder and first president.

THE J. GORDON ROACH SCHOLARSHIP was established in 1999 by Mrs. Kathrine C. Roach of McComb, Mississippi, to honor J. Gordon Roach.

THE CHARLES ROBERTS MEMORIAL SCHOLARSHIP FUND was originally established in 1961 by Col. Charles R. Pettis in honor of his grandfather and was permanently endowed in 1969 by Mrs. Charles R. Pettis as a memorial both to her husband and his grandfather.

THE STEPHEN COOK ROBERTS MEMORIAL SCHOLARSHIP was established in 1981 by his parents, Mr. and Mrs. Kenneth L. Roberts of Nashville.

THE BILLY CHARLES SAM SCHOLARSHIP was established in 1966 by the Sam family in memory of their son, who was killed in action in World War II.

THE SCHWERNER, CHANEY, GOODMAN MEMORIAL SCHOLARSHIP was established in memory of Michael Schwerner, James Chaney, and Andrew Goodman, three slain civil rights workers.

THE RICHARD F. SCRUGGS SCHOLARSHIP was established in 1986 by Mr. Scruggs of Pascagoula, Mississippi.

THE SCRUGGS-NUTT QUASI SCHOLARSHIP ENDOWMENT was established in 1999 by Richard Scruggs and David Nutt.

THE SECOND CHANCE SCHOLARSHIP ENDOWMENT was established in 2002 by Jeannie and Thomas W. Avent, Jr., of Atlanta, Georgia.

THE CATHERINE ANN SEELY MEMORIAL SCHOLARSHIP was established in 1981 by the Warren B. Seely, Jr., family of Moss Point, Mississippi.

THE SEIBELS FAMILY ENDOWMENT was established in 1998 by Robert E. and Cynthia M. Seibels of Montgomery, Alabama. Selection of recipient shall be made by The University of Mississippi Scholarship Selection Committee.

THE SENIOR YEAR SCHOLARSHIPS FOR WOMEN. Ninety scholarships are made available each year by the U.S. Army for young women who have completed their junior year or are first semester seniors. Each scholarship pays the recipient about \$435 per month during her senior year. Interested applicants should write Headquarters, U.S. Army Fourth Recruiting District, P.O. Box 8277, Wainwright Station, San Antonio, TX 78208.

THE GLYNNE & ANN SIMPSON SCHOLARSHIP was established in 2003 by the Bedford Foundation.

THE CHARLES B. SISLER SCHOLARSHIP was established in 1953 by Estelle Gaines Sisler, to be awarded to students from Calhoun County.

THE SKELTON-CHAPMAN SCHOLARSHIP AWARD was established in 2004 by employees of Homer Skelton Ford and Homer Skelton Pontiac-GMC.

THE DR. OLIVER SLATON SCHOLARSHIP was established in 1945 by Dr. and Mrs. Paul Saunders in memory of Dr. Slaton of Tate County, Mississippi.

THE LONNIE SMITH MEMORIAL SCHOLARSHIP was established in 2004 by Smith and Waldrop Foundation.

THE J. LUCIAN SMITH, JR., ATLANTA ENDOWMENT was established in 1992 by Mrs. Smith.

THE VELMA WALDROP SMITH MEMORIAL SCHOLARSHIP was established in 2004 by Smith and Waldrop Foundation.

THE ROBERT CLARK STOVALL, SR., SCHOLARSHIP was established by Mr. Richard M. Stovall, of Okolona, Mississippi, as a perpetual memorial to his father.

THE JAMES COLLINS TABB SCHOLARSHIP FUND was established in 1975 by Mr. and Mrs. J.H. Tabb of Houston, Mississippi, in honor of their son.

THE MACON AND CATHERINE TANKARD MEMORIAL SCHOLARSHIP was established in 1988 by Bill Tankard of Nashville in memory of his father.

THE MARCUS ELVIS TAYLOR MEDAL AWARD. Dr. William T. Taylor, of Booneville, Mississippi, in June 1904, founded the Marcus Elvis Taylor Memorial at The University of Mississippi, out of affection and regard for the memory of his son, the late Dr. Marcus Elvis Taylor, an honored alumnus of the University of the class of 1871.

THE CLAUDE P. THOMPSON MEMORIAL SCHOLARSHIP was established in 2002 by Nimrod Gordon Thompson in memory of Claude P. Thompson.

THE ANNIE S. TILLMAN SCHOLARSHIP was established in 1954 with a bequest from the late Ms. Tillman of Birmingham and Oxford.

THE TIPPAH COUNTY OLE MISS SCHOLARSHIP was established in 1993 by the Tippah County Ole Miss Alumni Club.

THE GEORGE TOWNSEND SCHOLARSHIP FUND was established by the widow and friends of Dr. Townsend of Forest, Mississippi.

THE HOMER AND EVIE TRAMMELL MEMORIAL SCHOLARSHIP was established in 1984 by the family of the late Mr. and Mrs. Trammell of Laurel, Mississippi.

THE JAMES BRYAN TURNER MEMORIAL SCHOLARSHIP FUND was created in 1966 by Mr. and Mrs. Thomas N. Turner.

THE WILLIAM B. TURNER SCHOLARSHIP is awarded to worthy and promising young men and women of high scholastic standing.

THE UMF SCHOLARSHIP ENDOWMENT/OXFORD CAMPUS was established in 2003 by the Education Services Foundation to provide income for scholarship assistance to deserving students at The University of Mississippi.

THE UNION COUNTY OLE MISS SCHOLARSHIP was established in 1999 by the Union County Ole Miss Club.

THE UNIVERSITY DAMES SCHOLARSHIP was established in 1977 to assist members of the University Dames who are pursuing a degree.

THE UNIVERSITY HIGH SCHOOL ALUMNI ASSOCIATION SCHOLARSHIP was established in 1999 by the University High School Alumni Association.

THE VICKSBURG CHAPTER U.D.C. SCHOLARSHIP was established in 1934 to be awarded to a lineal descendant of a Confederate veteran.

THE JAYSON VAUGHN VINSON MEMORIAL SCHOLARSHIP was established in 1996 by Jessie W. and Linda Vaughn Vinson of Meridian, Mississippi.

THE LUTHER W. AND CLAIRE B. WADE SCHOLARSHIP FUND was established in 1974 by Mr. Wade of Greenwood, Mississippi.

THE GORDON WAKEFIELD MEMORIAL SCHOLARSHIP was established in 1998 by Ms. Pattie P. DePriest of Memphis, Tennessee.

THE DR. AND MRS. CHARLES WALKER MEMORIAL SCHOLARSHIP was established in 1990 by Robert Walker of San Francisco, California, in memory of his parents.

THE DR. JAMES P. WARD SCHOLARSHIP was established in 1982 by Dr. Ward of Pass Christian, Mississippi.

THE JOE WEINBERG SCHOLARSHIP was established in 1956 by Mr. Weinberg of Greenville, Mississippi.

THE VERA POUNDERS WHITTEN MEMORIAL SCHOLARSHIP was established in 2000 by the DeSoto County Rebel Club.

THE MR. AND MRS. R.F. WICKER SCHOLARSHIP was established in 1984 by Dr. Ralph Wicker of Hattiesburg, Mississippi, in honor of his parents.

THE ROBERT "BEN" WILLIAMS MINORITY SCHOLARSHIP was established by The University of Mississippi Alumni Association's Black Alumni Advisory Council in 1989 to help defray the cost of education for designated Ole Miss students.

THE KILEY DALE WILT MEMORIAL SCHOLARSHIP was established in 2003 by Charles Thomas Cannada, Tara Warner Cannada, Charles Warner Cannada, and Adrian Adair Cannada to honor Kiley Dale Wilt, a native of Nashville, Tennessee, who attended The University of Mississippi and was an active member of Kappa Delta Sorority.

THE SALLY KATE WINTERS MEMORIAL SCHOLARSHIP FUND was established in 1965 by Mr. and Mrs. C.P. Winters of West Point, Mississippi, in memory of their daughter.

THE MOLLIE McAMIS WORSHAM SCHOLARSHIP was established in 1985 by J.T. Davis, Jr., of Memphis, Tennessee, to assist deserving young men and women who are pursuing an education at The University of Mississippi.

Service Scholarships for Participating Students

Stipends vary from \$50 to \$1,500 per academic year and, in instances where nonresident students are awarded service awards, the scholarship stipend may include an allowance to be applied toward the nonresident tuition charge.

BAND SCHOLARSHIPS: Applications should be directed to the director of the University Band. Please call (662) 915-7390 for assistance.

CHORAL SCHOLARSHIPS: Applications should be directed to the director of the University Chorus. Please contact (662) 915-5115.

ORCHESTRA SCHOLARSHIPS: The University awards scholarships to members of the University Orchestra. Applications should be directed to the director of the University Orchestra. Please contact (662) 915-1514.

ROTC SCHOLARSHIPS: The Air Force, Army, and Naval (Navy/Marine) Reserve Officer Training Corps (ROTC) make four-year, three-year, and two-year full-tuition scholarships (includes books, fees, and subsistence allowance) available each year on a competitive basis. Once enrolled in ROTC on a nonscholarship basis, a student will find several additional full-tuition scholarships that are available on a "best qualified" basis. It is not necessary to complete the FAFSA to apply for ROTC scholarships. ROTC scholarships and subsistence allowances are considered to be financial aid resources available to cover a portion of the annual costs of education. Since these resources are part of the financial aid package, they may conflict with eligibility for other types of financial aid such as loans and work-study. Students who receive notice of an ROTC scholarship after an original financial aid package has been awarded may be required to renegotiate the financial aid packages with possible resulting loss of need-based and budget-based awards.

COLLEGE OF LIBERAL ARTS

Scholarships are made available by donations from alumni and friends of the College. For a listing of these scholarships and contact information for application, please visit the College of Liberal Arts Web site at www.olemiss.edu/libarts/

PATTERSON SCHOOL OF ACCOUNTANCY

Scholarships

THE ACCOUNTANCY ALUMNI SCHOLARSHIP was established in 1984 to benefit students in the School of Accountancy. The recipient must be at least a junior and maintain a 3.0 grade-point average.

THE BETA ALPHA PSI SCHOLARSHIP was established by the Alpha Theta Chapter and is awarded to applicants who are members of the senior class or graduate students majoring in accountancy. The awards are based primarily on financial need and scholastic achievement. Applications must be made to the president of the Alpha Theta Chapter of Beta Alpha Psi, at The University of Mississippi.

THE BUSINESS ADMINISTRATION/ACCOUNTANCY SCHOLARSHIP was established in 1984 to benefit students in the schools of Business Administration and Accountancy. The recipient must be at least a junior and maintain a 3.0 grade-point average.

THE CHARLES C. AND GINGER CLARK ACCOUNTANCY SCHOLARSHIP ENDOWMENT established in 2002 by Charles C. and Virginia Guice Clark of Birmingham, Alabama. First preference shall be given to a full-time, non-resident freshman, as selected by the Scholarship Selection Committee in the School of Accountancy.

THE JAMES W. DAVIS SCHOLARSHIP ENDOWMENT IN ACCOUNTANCY was established in 2002 by the James W. Davis Initiative by Larry Hardy of Memphis, Tennessee, and Charles Cannada of Jackson, Mississippi. Recipients shall be full-time students admitted to the professional accountancy program as selected by the School of Accountancy Scholarship Committee.

THE RUTHANN RAY AND REX DELOACH ACCOUNTANCY SCHOLARSHIP was established by Rex M. DeLoach and Ruthann Ray of Oxford, Mississippi, in 1996. The recipient shall be in his/her junior year and have transferred from a Mississippi community college.

THE EDWARD A. DEMILLER, JR., SCHOLARSHIP was established in 1994 by Mildred C. DeMiller and Edward A. DeMiller, Jr.; recipient shall be a full-time student pursuing a degree in accountancy.

THE TONYA & DALE FLESHER SCHOLARSHIP ENDOWMENT IN ACCOUNTANCY was established in 2002 by Tonya and Dale Flesher of Oxford, Mississippi. Awarded to full-time students who are pursuing undergraduate or graduate degrees in accountancy.

THE ROGER AND SUSIE FRIOU SCHOLARSHIP FUND was established in 1998 by Roger Friou of Jackson, Mississippi. Recipients shall be full-time students admitted to the professional accountancy program as selected by the School of Accountancy Scholarship Committee.

THE LARRY J. HARDY SCHOLARSHIP was established in 2002 by Larry J. Hardy. Recipients shall be full-time students in the School of Accountancy and may be pursuing an undergraduate or graduate degree. Entering freshmen will be required to have graduated in the top 10 percent of their high school class. Selection will be made by the School of Accountancy Scholarship Selection Committee.

THE CHRISTINE HICKONBOTTOM COUNCIL SCHOLARSHIP IN ACCOUNTANCY was established by Edith Kelly-Green in memory of her grandmother in 1999. The scholarship will assist deserving students in the field of accountancy.

THE E.R. HINES SCHOLARSHIP ENDOWMENT IN ACCOUNTANCY was established in 2003 by E.R. Hines of Ridgeland, Mississippi. Recipients shall be full-time students admitted to the professional accountancy program as selected by the School of Accountancy Scholarship Committee.

THE JOHN REED HOLLEY SCHOLARSHIP was established by friends and family of the late Mr. Holley. Recipients shall be in the School of Business Administration or the School of Accountancy and are selected by a committee composed of the president of the Business Administration Alumni Chapter, the director of Student Financial Aid, dean of students, and secretary of the Business Administration Alumni Chapter. Financial need and academic excellence are taken into consideration.

THE FRANK HUGHES ACCOUNTANCY SCHOLARSHIP ENDOWMENT was established in 1994 by family of Frank Hughes. Recipients shall be full-time students admitted to the professional accountancy program as selected by the School of Accountancy Scholarship Committee. First preference shall be given to students from Holmes, Yalobusha, or Tallahatchie counties.

THE McCARTY FAMILY SCHOLARSHIP IN ACCOUNTANCY was established in 2002 by The H. H. McCarty, Jr., Family Foundation of Jackson, Mississippi. Awarded to full-time students who are pursuing undergraduate or graduate degrees in accountancy.

THE LUCIAN S. MINOR ENDOWMENT FUND was established in 2002 by Lucian S. Minor of Memphis, Tennessee. Recipients shall be full-time students admitted to the professional accountancy program as selected by the School of Accountancy Scholarship Committee.

THE MISSISSIPPI SOCIETY OF CERTIFIED PUBLIC ACCOUNTANTS SCHOLARSHIP is awarded to a student who has completed the junior year in accountancy. The recipient is selected by the faculty from student applications.

THE NORTHROP GRUMMAN FOUNDATION SCHOLARSHIPS were established in 1988 to assist deserving students in the schools of Accountancy and Business Administration. The award carries a \$2,000 annual stipend. Accountancy recipients are nominated by accountancy faculty.

THE H.E. PEERY ENDOWMENT FUND IN ACCOUNTANCY was established in 1979 by Mr. and Mrs. W.B. Ridgway to honor the distinguished professor of accountancy. Selection will be made by the School of Accountancy Scholarship Selection Committee.

THE E. NOLAN WALLER SCHOLARSHIP was established in 1999 by the CPA firm of Lefoldt & Co., P.A. to honor a long-time staff member of the University. The award is made at the end of the senior year to a Mississippi student starting his or her fifth year of study.

THE WENDELL WEAKLEY SCHOLARSHIP IN ACCOUNTANCY was established in 1999 by Wendell W. Weakley of Dallas, Texas. Recipients shall be full-time students admitted to the professional accountancy program as selected by the School of Accountancy Scholarship Committee.

THE NETTIE YOUNG SCHOLARSHIP was established in 1993 by Arnold L. and Willis E. Young. Recipients shall be full-time students admitted to the professional accountancy program as selected by the School of Accountancy Scholarship Committee.

SCHOOL OF APPLIED SCIENCES

Scholarships

THE LOUISE BURNETTE SCHOLARSHIP ENDOWMENT was established in 1979 by the Department of Home Economics (now the Department of Family and Consumer Sciences) of The University of Mississippi. Recipient shall be a family and consumer sciences major who exemplifies the ideals of Louise Burnette through academic achievement, outstanding qualities of leadership, and a dedication to the field of family and consumer sciences as a vocation.

THE GLORIA DODWELL KELLUM COUNCIL SCHOLARSHIP ENDOWMENT was established in 2004 by friends and family of Dr. Gloria D. Kellum. Selection of recipient shall be made by the Ole Miss Women's Council Scholarship Selection Committee. Recipients shall be full-time students who are chosen on the basis of demonstrated academic ability and leadership potential.

THE PARK & RECREATION MANAGEMENT ENDOWMENT was established in 2000 by the Division of Park & Recreation Management in the Department of Health, Exercise Science & Recreation Management. Recipient shall be a full-time student as selected by the faculty of Park & Recreation Management.

THE PATRICIA ANN RIDGWAY MEMORIAL SCHOLARSHIP PROGRAM IN COMMUNICATIVE DISORDERS was established in 1981 by Mr. and Mrs. W. Bryant Ridgway; awarded annually to students who demonstrate exceptional achievement and professional development in communicative disorders.

THE MARIANNE B. TILLMAN SCHOLARSHIP IN SPEECH & LANGUAGE PATHOLOGY was established in 2000 by Larry J. Tillman of Signal Mountain, Tennessee. Recipients shall be full-time students who are pursuing a major within the Department of Communicative Disorders; and who demonstrate exceptional achievement and professional development in the area of speech and language pathology.

SCHOOL OF BUSINESS ADMINISTRATION

Scholarships

THE BANCORPSOUTH SCHOLARSHIP is awarded each year to a junior or senior student. Preference is given to students majoring in banking who are Mississippi residents.

THE L.L. BETHAY SCHOLARSHIP IN BANKING AND FINANCE is made possible by a donation of Mr. Bethay, an industrialist from Booneville, Mississippi. This scholarship is awarded each spring semester to a Mississippi resident who is an undergraduate or graduate student in banking and finance. Selection of the recipient is made by the banking chair holder and is based on scholarship, leadership, character, and financial need.

THE P.M. BRADY "FOCUS" SCHOLARSHIP was established in 1998 by Michael Brady to assist deserving men and women who are pursuing a major within the School of Business Administration. Recipients must be full-time students who are in their junior or senior year or graduate students, with preference given to those who have financial need and a grade-point average of 2.5 and greater.

THE KITTY HENDERSON BREWER SCHOLARSHIP was established in 1984 to honor in perpetuity the late Ms. Brewer. Recipients must be full-time students with preference given to those who have indicated an interest in the field of insurance.

THE CHARLES E. BRYANT MEMORIAL SCHOLARSHIP was established in 1982 to assist deserving young men and women to obtain an education in the School of Business Administration. Recipients shall be at least a sophomore and have demonstrated academic achievement as determined by the faculty.

THE BUSINESS ADMINISTRATION/ACCOUNTANCY SCHOLARSHIP was established in 1984 to benefit deserving students in the schools of Business Administration and Accountancy. The recipient must be at least a junior and maintain a 3.0 grade-point average.

THE PERRIN CALDWELL INSURANCE SCHOLARSHIP was established in 1996 by Perrin L. Caldwell, Jr., and Thurman V. Caldwell to assist deserving students who are pursuing a business degree with a major in the field of insurance.

THE CELLULAR SOUTH SCHOLARSHIPS were established in 2003 by Cellular South (Telepak, Inc.) to provide scholarship assistance for students pursuing a degree in the School of Business Administration. Recipients will be selected on the basis of community service, grade-point average, other standardized test scores, and extracurricular activities. Application may be made to the School of Business Scholarship Selection Committee.

THE AL DANTZLER SCHOLARSHIP IN THE SCHOOL OF BUSINESS ADMINISTRATION was established in 1999 by A.F. Dantzler, Jr. Recipients must be full-time students in the School of Business Administration with preference given to those who are residents of the Mississippi Gulf Coast.

THE SUSAN COLBERT DAVIS MEMORIAL SCHOLARSHIP was established in 1983 by the family of the late Susan Colbert Davis. Recipients must be U.S. citizens and residents of Mississippi, preferably from either Alcorn or Chickasaw counties, in at least the junior year of study in business administration or liberal arts, and have demonstrated financial need and academic achievement.

THE CHRISTINE AND CLARENCE DAY SCHOLARSHIP was established in memory of Christine Rogers Day and Clarence Cearns Day. Mrs. Day, a native of Aberdeen, Mississippi, was involved in the community and interested in education. Mr. Day, originally from New Albany, Indiana, was a long-time resident of Aberdeen. He was active in business and was interested in both civic and educational endeavors. Both were committed to the value of higher education and the future of Mississippi. This scholarship will provide an educational opportunity to the foremost Mississippi high school graduate who is interested in pursuing a career in business. The student awarded the Day Scholarship must be a School of Business Administration major and must maintain a 3.5 grade-point average.

THE JOE T. DEHMER SCHOLARSHIP was established in honor of Joe T. Dehmer to assist deserving men and women who are pursuing a business degree at The University of Mississippi. Recipients must be full-time students who are entering their junior or senior years in the School of Business Administration who demonstrate financial need, leadership potential, and scholastic ability, with special attention given to the students with part-time work experience.

THE MR. AND MRS. C.C. EASON SCHOLARSHIP IN BANKING was established in 1988 by the family of Mr. and Mrs. Eason to assist deserving undergraduate students who are pursuing a course of study in banking. Recipients must be Mississippi residents and are selected by a business administration faculty committee.

THE FIRST NATIONAL BANK OF OXFORD SCHOLARSHIP, established in 1970, is awarded each year to a banking student and resident of Lafayette County. The award is based on need and scholastic ability.

THE ANNE S. AND CECIL FOX SCHOLARSHIP, established in 1999, is awarded to a student from Madison County, Mississippi, who is majoring in a field of study in the School of Business Administration. Recipients will be chosen on the basis of scholastic ability, leadership potential, and financial need.

THE GATLIN FAMILY-OLE MISS FIRST SCHOLARSHIP ENDOWMENT was established in 2002 by Eddie H. Gatlin of Memphis, Tennessee, and James R. Gatlin of Tupelo, Mississippi. The recipient must be a full-time student who is an entering freshman, with first preference given to a student from North Mississippi or the Memphis area. The student awarded the Gatlin Scholarship must be a School of Business Administration major and must maintain a 3.0 grade-point average.

THE DR. EDWARD L. GILLENWATER, II MEMORIAL SCHOLARSHIP was established in 1997 by friends and family of Edward L. Gillenwater, II. Recipient shall be a Ph.D. student in business administration, majoring in management. Preference will be given to students who are majoring in production and operations management, who are members of minority groups, and who are female.

THE JOHN REED HOLLEY SCHOLARSHIP was established by friends and family of the late Mr. Holley. Recipients shall be in the School of Business Administration or the School of Accountancy and are selected by a committee composed of the president of the Business Administration Alumni Chapter, the director of Student Financial Aid, dean of students, and secretary of the Business Administration Alumni Chapter. Financial need and academic excellence are taken into consideration.

THE LEWIS GROCER SCHOLARSHIP was established in 1968 with an endowment by Mr. Morris Lewis, Jr., of Indianola, Mississippi. Recipients must be children of employees of Lewis Grocer Company, Sunflower Food Stores, or subsidiaries of Lewis Grocer Company. The award will be restricted to students in the School of Business Administration.

THE W.P. McMULLAN SCHOLARSHIP was named in honor of W.P. McMullan, Sr., who celebrated his 50th anniversary as a Mississippi banker in 1971. The scholarship was made possible by donations from the Deposit Guaranty National Bank, Jackson; the Newton County Bank; the Bay Springs Bank; Citizens National Bank; the Monticello Bank; and memorial gifts from his friends. The award is made to students who are residents of Mississippi ranking in the upper 50 percent of their graduating classes who need financial assistance and major in banking.

THE MERCHANTS AND FARMERS BANK SCHOLARSHIP IN BUSINESS AND EDUCATION was established in 1989 to recognize outstanding students in the schools of Business Administration and Education. The awards are made annually by the faculty in each school. Recipients must be Mississippi residents who reside within the service area of a Merchants and Farmers Bank.

THE KRISTOFER GEORGE MIHALYKA MEMORIAL SCHOLARSHIP IN BUSINESS ADMINISTRATION was established in 1998 by the family of the late Kristofer George Mihalyka. Recipients will be U.S. citizens who are full-time students entering their junior or senior year in the School of Business Administration who are majoring in marketing. Preference will be given to students with scholastic ability and leadership potential.

THE FORREST C. MOBLEY SCHOLARSHIP IN BUSINESS ADMINISTRATION was established in 1979 by Mr. Mobley, a 1930 graduate of the University. The scholarships are available for sophomore, junior, and senior undergraduate students and graduate students who have demonstrated outstanding achievement in business administration.

THE DUDLEY ROOK "LITTLE DUDLEY" MOORE IV SCHOLARSHIP was established in 2001 by Mr. and Mrs. Dudley Rook Moore, Jr., of Byhalia, Mississippi. The recipient must be a full-time student who is an entering freshman or transfer student, with first preference given to a student from North Mississippi who is pursuing a major in banking and finance.

THE NORTHROP GRUMMAN FOUNDATION SCHOLARSHIPS were established in 1988 to assist deserving students in the schools of Accountancy and Business Administration. The award carries a \$2,000 annual stipend. Accountancy recipients are nominated by accountancy faculty.

THE JOHN N. PALMER MBA ASSISTANTSHIPS AND FELLOWSHIPS were established by John N. Palmer to provide funds for the John N. Palmer MBA Assistantship and Fellowship Program at The University of Mississippi and to aid in the recruitment and retention of outstanding MBA students at The University of Mississippi.

THE JAMES D. PEARSON, SR., MEMORIAL SCHOLARSHIP was established in 1993 as an academic scholarship to honor the memory of Mr. Pearson and to recognize deserving men and women pursuing an education at the University. Recipients must be full-time business administration students and a Mississippi resident.

THE PROFESSIONAL INSURANCE AGENTS OF MISSISSIPPI SCHOLARSHIP was established to promote insurance education among college students; the PIA of Mississippi has established a perpetual scholarship fund to provide an annual scholarship. Monies will be disbursed on authorization of a board of administrators of the association. Funds are accumulated by means of an annual contribution from PIA plus other special contributions from the PIA and other parties. Students must apply directly to the PIA.

THE ELIZABETH W. QUIRK SCHOLARSHIP was established in 2003 by Neal J. and Elizabeth W. Quirk. Recipients will be full-time students majoring in the School of Business Administration and will be selected based on financial need.

THE BEN M. RAWLS SCHOLARSHIP IN BANKING was established in 1987 by the Citizens National Bank of Columbia, Mississippi, in memory of its late chairman. Recipients must be pursuing a degree in banking and be residents of Marion, Jefferson Davis, Lamar, Walthall, or Pearl River counties in Mississippi.

THE JAMES STERLING RECKLING SCHOLARSHIP was established as an academic scholarship by Mr. and Mrs. T.R. Reckling III of Houston, Texas, to honor their son, a 1988 graduate of the School of Business Administration. Recipients must be full-time students who are enrolled in business administration.

THE GEORGE JAMES ROBERTSON SCHOLARSHIP was established by Ms. Paula M. Robertson to provide income for a scholarship in memory of her brother, who was an alumnus of the University. The award is made to a sophomore student whose major course work is finance and who is a member of the Delta Tau Delta Fraternity if that organization is active on the campus at the time the award is made.

THE ANNE SULLIVANT SAMPSON SCHOLARSHIP IN INSURANCE was established in 1979 by the Equitable Life Assurance Society of the United States to honor one of its employees, Mr. John N. Sullivant Jr. It is named for his deceased daughter, a 1966 graduate of Ole Miss. The scholarship is available to students of exceptional academic and professional ability majoring in insurance and requiring financial assistance.

THE CLANT M. SEAY MEMORIAL SCHOLARSHIP was established in 1966 by the Independent Insurance Agents of Mississippi and is awarded each year to a student in the School of Business Administration. Preference in selection is given to students majoring in general insurance. Scholarship, leadership, and financial need also are considered in the awarding of this scholarship.

THE W. CLIF SHIRLEY, SR., SCHOLARSHIP IN LIFE INSURANCE was established in 1982 by friends of Mr. Shirley on the occasion of his retirement. Consideration for this award will be given to students majoring in insurance who are in need of financial assistance and who have demonstrated exceptional academic ability and professional competence.

THE SNEED BUSINESS SCHOLARSHIP was established in 1995 by Harry A. and Vicki L. Sneed of Oxford, Mississippi, to assist students who are business majors and who reside in Oxford, Mississippi.

THE ORRIN SWAYZE SCHOLASTIC AWARD is presented each year by the Young Bankers Section of the Mississippi Bankers Association to a senior banking student at The University of Mississippi, Mississippi State University, the University of Southern Mississippi, Delta State University, or Jackson State University. This award was established in honor of Mr. Swayze, a Mississippi banker for many years. Selection of the recipient is based upon scholarship, leadership, character, and financial need.

THE LEONARD DAVIS WESSON MEMORIAL SCHOLARSHIP ENDOWMENT FUND was established in 2001 by Adelaide H. Wesson of Newark, Ohio. Recipient shall be full-time undergraduate students who meet the criteria of financial need, scholastic ability, and leadership potential, with first preference given to Mississippi residents.

THE YOUNG BANKER SCHOLAR AWARDS are presented each year by the Young Bankers Section of the Mississippi Bankers Association to senior banking students at The University of Mississippi, Mississippi State University, the University of Southern Mississippi, Delta State University, or Jackson State University. Selection of the recipients of these four awards is based upon scholarship, leadership, character, and financial need.

SCHOOL OF EDUCATION

Scholarships

THE KATHRYN WEBSTER BARNETT SCHOLARSHIP IN EDUCATION was established in 1995 by the family of Ms. Webster as a memorial scholarship. Recipients shall be full-time students in the education program as selected by the Scholarship Committee.

THE PEGGY EMERSON SCHOLARSHIP ENDOWMENT FUND was established by Jean Shaw to provide scholarship assistance to the School of Education.

THE FLETCHER, VEAZEY SCHOOL OF EDUCATION AWARD was established by Francis D. Veazey to provide scholarship assistance to secondary education majors. Application should be made to the School of Education.

THE HATHORN FAMILY SCHOLARSHIP was established in 2002 by Dr. Samuel R. Bright of Winston-Salem, North Carolina. Recipient will be a full-time junior or senior student majoring in education with financial need.

THE BURL HUNT AND CLARA SMITH HUNT TEACHER EDUCATION SCHOLARSHIP was established in 1992 by friends of the Hunts. The scholarship is awarded annually to a nontraditional junior or senior female student entering teacher education. Recipients are selected on the basis of maturity, potential, and financial need.

THE WAYNE JOHNSON COMMUNITY AWARD IN EARLY CHILDHOOD EDUCATION was established in 1980 by friends and family of the late Rev. Wayne Johnson. The award is open to students and/or faculty from any discipline.

THE THOMAS RICHARDSON LAMAR AND ALICE RAGLAND LAMAR SCHOLARSHIP was established in 1988 by a gift from the estate of Lavergne L. Lamar. Recipients of the scholarship shall be full-time students enrolled in the School of Education. Awards will be made annually by an education faculty committee.

THE LUCKY DAY SCHOLARSHIP was established in 1998 for secondary teacher education majors who are community college transfer students and are classified as rising juniors. Recipients must agree to teach in a Mississippi secondary school for a minimum of three years.

THE MERCHANTS AND FARMERS BANK SCHOLARSHIP IN EDUCATION AND BUSINESS was established in 1989 to recognize outstanding students in the schools of Education and Business Administration. The awards are made annually by the faculty in each school.

THE IKE & ELAINE MULLINS EDUCATION ENDOWMENT established in 1999 by Andrew P. Mullins of Oxford, Mississippi. Awarded annually to the most outstanding graduate of the Administrator Training Program and the most outstanding undergraduate in the secondary mathematics education major program.

THE RAYMOND MUROV SECONDARY EDUCATION AWARD was established in 2002 by Mr. Raymond Murov to provide income for an award to a student who is majoring in secondary education and who has outstanding performance in the classroom.

THE NAN AND CECIL OLIPHANT ENDOWMENT FUND was established to provide scholarship assistance to the School of Education.

THE R.H. PRICE MEMORIAL SCHOLARSHIP was established in 1965 through the efforts of The University of Mississippi Chapter of Phi Delta Kappa and the Zeta Eta Chapter of Kappa Delta Pi, professional education fraternities, in memory of Dr. Price, an esteemed member of the education faculty. Recipients are selected on the basis of scholarship, leadership, and financial need.

THE LYNDA RAMEY SCHOLARSHIP was established in 1980 by Miss Lynda Ramey of Oxford to provide financial assistance to undergraduate students from Mississippi who are preparing for careers in medicine or teaching and who have records of academic achievement. Applicants studying other curricula, however, also are eligible for consideration.

THE SCHOOL OF EDUCATION SCHOLARSHIP was established by Kenneth R. and Lucy L. Bender of Oxford, Mississippi, to reward deserving junior or senior students in the Teacher Education program or the Department of Family and Consumer Sciences.

THE JEAN M. SHAW EDUCATION ENDOWMENT was established by Jean Shaw to provide income for scholarships for the School of Education.

THE JEAN SHAW MATHEMATICS EDUCATION AWARD was established in 2000 for a student teacher and is awarded each spring semester. The recipient must be a full-time student and have completed a minimum of 15 semester hours in mathematics courses and teach mathematics as partial fulfillment of the student teaching requirements.

THE JOAN GILBERT SMITH SCHOLARSHIP FOR SPECIAL EDUCATION was established in 2002 by Kim Smith Singhas. First preference will be given to students majoring in special education and demonstrating financial need and academic excellence from one of the 23 counties in North Mississippi served by the North Mississippi Regional Center in Oxford.

THE SOCIAL STUDIES STUDENT TEACHING AWARD was established in 1999 by Mr. Raymond Murov. Recipient shall be a student who has completed the student teaching requirements and who is judged worthy to receive special recognition for outstanding performance in the classroom.

SCHOOL OF ENGINEERING

Scholarships

THE JOHN G. ADLER SCHOLARSHIPS IN ENGINEERING were established in 1994 through a generous endowment provided by Mr. Adler of Fremont, California. The Adler Scholarships in engineering provide fellow and scholar stipends for up to four years of full-time undergraduate study for students enrolled in the University's School of Engineering. Selection is based on an excellent academic record with an equally strong interest in mathematics and science, and a definite desire to pursue a career in engineering or computer science. For further information, contact the Office of the Dean, School of Engineering.

THE DAVID W. ARNOLD ENGINEERING AWARD ENDOWMENT was established in 2002 by the Mississippi Chemical Corporation; awarded to a graduating senior.

THE RUSSELL E. AVEN CHEMICAL ENGINEERING SCHOLARSHIP was established in 1996 to honor the retirement of Dr. Russell Aven for his many years of teaching and service to the School of Engineering. The recipient shall be a student who is majoring in chemical engineering.

THE BERTOLET GEOLOGY ENRICHMENT ENDOWMENT was established in 1983 by Mr. and Mrs. Robert C. Bertolet to enrich the educational opportunities of undergraduate geology students.

THE JOHN ROBERT BOSWELL MEMORIAL SCHOLARSHIP IN CHEMICAL ENGINEERING was established in January 2000 by Mr. and Mrs. Ernest Boswell in memory of their son, a 1984 graduate. The scholarship is awarded annually to a senior in chemical engineering demonstrating outstanding academic ability and financial need.

THE ELIZABETH SCOTT AND KARL BRENKERT SCHOLARSHIP ENDOWMENT FUND IN MECHANICAL ENGINEERING was established in 1990 by friends and colleagues of Karl Brenkert. Recipients shall be full-time undergraduate students who are U.S. citizens and who are majoring in mechanical engineering.

THE BREVARD FAMILY SCHOLARSHIPS IN ENGINEERING were established in 1991 by Mr. Henry C. Brevard Jr., of Tupelo, Mississippi. The Brevard Scholarship Committee, composed of Mr. Brevard, his son, David E. Brevard, or another direct descendant of Henry C. Brevard, and others, select the recipients, who are full-time students enrolled in the School of Engineering.

THE J. BARRY AND ETNA DAVIS BROWN MEMORIAL SCHOLARSHIP IN CIVIL ENGINEERING was established in 1982 by family and friends of the late Mr. and Mrs. Brown. Recipients are U.S. and Mississippi residents in at least their junior year of study.

THE ARNOLD W. CAROTHERS SCHOLARSHIP was established by Arnold W. Carothers to benefit students in the School of Engineering. Recipient will be selected on the basis of scholastic ability and need.

THE CHI EPSILON ENDOWMENT. Chi Epsilon, honorary civil engineering society, awards scholarships to the Chi Epsilon senior with the highest grade-point average, to the Chi Epsilon member with the greatest need, and to an incoming civil engineering freshman.

THE CLARENCE M. AND KATHRYNE W. CONWAY SCHOLARSHIP ENDOWMENT FUND IN ENGINEERING was established in 1995 by Clarence M. Conway of Tupelo, Mississippi. Recipients shall be full-time students who are enrolled in the School of Engineering and who are selected to receive the award by the engineering awards committee.

THE W. BLAKE DAVIS SCHOLARSHIP IN CHEMICAL ENGINEERING was established by the friends and colleagues of the late Mr. Davis. The award is made annually to an outstanding chemical engineering community college transfer student as chosen by the chemical engineering faculty.

THE JOHN G. AND VIOLET DOUGLAS GEOLOGY ENDOWMENT FUND was established in 1995 by Violet Douglas, the purpose being to provide adequate funds for the support of geology at The University of Mississippi. Funds may be used for students' projects, guest speakers, scholarships, and expenses incurred during planned field trips.

THE JEFF FREDERKING MEMORIAL SCHOLARSHIP IN ENGINEERING was established in May 1980 by Dr. and Mrs. Ray L. Frederking in memory of their son. The scholarship is awarded annually to freshmen engineering students in need of financial assistance and who demonstrate exceptional academic ability.

THE WILLIAM E. GENETTI ENDOWMENT FUND was established to provide income for scholarships for students majoring in chemical engineering at The University of Mississippi.

THE DEAN LEE H. JOHNSON SCHOLARSHIP IN ENGINEERING ENDOWMENT was established in 1999 by former students, colleagues, and engineering alumni to honor Dean Lee Johnson who served the School of Engineering from 1937 to 1950. Recipients shall be full-time students who are enrolled in the School of Engineering and shall be selected based on scholastic ability.

THE GEORGE COOKE LEWIS, JR., MEMORIAL SCHOLARSHIP IN ENGINEERING was established in 1990 by Jennifer Fog-Toops and Gary C. Toops of Walnut, California, in memory of the late Dr. Lewis. Recipients are undergraduate students who are U.S. citizens enrolled in School of Engineering.

THE NEEL-SCHAFFER MINORITY SCHOLARSHIP IN ENGINEERING was established in 1991 by Neel-Schaffer, Inc., of Jackson, Mississippi. Recipients are full-time economically disadvantaged minority students who are U.S. citizens, Mississippi residents, enrolled in the School of Engineering, and who make satisfactory academic progress for receiving the scholarship, with preference given to students majoring in civil engineering.

THE TALBOT B. NEWMAN, JR., SCHOLARSHIP was established in 1993 by Mrs. Helen Newman of Vicksburg, Mississippi, as a memorial to her husband. Recipients shall be full-time students who are pursuing a major in civil engineering.

THE OLE MISS ENGINEERING ALUMNI SCHOLARSHIP FUND. The Engineering Alumni Chapter awards two \$500 scholarships annually to engineering students. Recipients of the scholarships are selected by the dean of the School of Engineering on the bases of scholastic ability, leadership, and financial need.

THE EFTON L. PARK, JR., MEMORIAL SCHOLARSHIP IN CHEMICAL ENGINEERING was established by friends and relatives of the late Dr. Park. The scholarship is awarded to junior chemical engineering students who demonstrate academic achievement in the field of chemical engineering.

THE LEONARD TSAI MEMORIAL SCHOLARSHIP IN ELECTRICAL ENGINEERING, established in 1979, provides scholarships to undergraduate electrical engineering majors who exemplify the ideals of the late Dr. Tsai. Recipients are recommended by the chair of the Department of Electrical Engineering in consultation with faculty members.

THE GEORGE BENNETT WALKER SCHOLARSHIP IN ENGINEERING was established by Mr. Walker in 1978 for engineering students who demonstrate exceptional achievement in the areas of leadership, academics, and professional competence who are committed to seeking careers in the field of engineering, with consideration to junior- and senior-level students.

THE JOHN & LILLIE MAE WALKER SCHOLARSHIP was established by Henry Walker to provide income for scholarships for the School of Engineering.

THE R. BAXTER WILSON FELLOWSHIP FUND, established by the Mississippi Power and Light Co. in honor of its chairman, provides fellowships to Mississippi residents based on scholarship, leadership, and financial need. Primary consideration is given to students who plan to pursue courses related to the electrical utility field with special consideration given to students who plan to pursue a degree in law.

THE CLIFFORD G. WORSHAM SCHOLARSHIP IN CIVIL ENGINEERING is awarded annually to the junior or senior in civil engineering who best exemplifies the qualities of scholarship, professional dedication, social concern, and a strong work ethic.

THE FRANK "HANK" WORSHAM III SCHOLARSHIP IN ENGINEERING was established by Mr. Clifford Worsham and Mr. Robert Worsham to provide scholarship assistance to students pursuing a major in the School of Engineering. Recipients will be full-time students who are natives of the state of Mississippi and who are majoring in civil engineering. Selection of recipient will be made by the School of Engineering Scholarship Committee or an appointee.

Loans

THE MR. AND MRS. J. RUSSELL JOHNSON LOAN FUND. This fund was established in 1958 through a bequest of the late Mr. Johnson. Students enrolled in civil engineering may receive loans from this fund in amounts not to exceed \$300. Loans are payable in one year and bear a 4 percent interest rate.

SCHOOL OF LAW

Scholarships

THE LAMAR ORDER/GUTHRIE T. ABBOTT SCHOLARSHIP IN LAW

THE JEFFRY CRAWFORD ADAMS MEMORIAL SCHOLARSHIP

THE JUDGE FRANK W. ALEXANDER MEMORIAL SCHOLARSHIP ENDOWMENT

THE ANDERSON CRAWLEY & BURKE, PLLC FIRM SCHOLARSHIP

THE JAMES ARDEN BARNETT MEMORIAL SCHOLARSHIP IN LAW ENDOWMENT

THE JEAN AND JOHN M. BEE SCHOLARSHIP IN LAW

THE BELL SOUTH TELECOMMUNICATIONS, INC. LEGAL DEPARTMENT SCHOLARSHIP IN LAW

THE EDWARD J. BOGEN MEMORIAL SCHOLARSHIP IN LAW

THE LAMAR ORDER/FRANCIS S. BOWLING SCHOLARSHIP IN LAW ENDOWMENT

THE RAYMOND L. BROWN SCHOLARSHIP ENDOWMENT

THE EDMUND L. BRUNINI, SR., SCHOLARSHIP IN LAW

THE LAMAR ORDER/BRYANT, CLARK, DUKES, BLAKESLEE, RAMSAY, AND HAMMOND SCHOLARSHIP IN LAW

THE DEAN J.W. BUNKLEY, JR., MEMORIAL SCHOLARSHIP
THE BUTLER, SNOW, O'MARA, STEVENS & CANNADA, PLLC, SCHOLARSHIP IN LAW
THE K. HAYES CALLICUTT SCHOLARSHIP IN LAW
THE CAMPBELL DELONG LLP SCHOLARSHIP IN LAW
THE HARRY L. CASE, JR., MEMORIAL SCHOLARSHIP
THE CENTER SCHOLARSHIP
THE WILLIAM M. CHAMPION SCHOLARSHIP IN LAW
THE CHRISTOPHER P. CHARLTON MEMORIAL SCHOLARSHIP IN LAW ENDOWMENT
THE JUDGE ARTHUR B. CLARK, JR., AND ARTHUR B. CLARK, SR., MEMORIAL SCHOLARSHIP IN
LAW
THE CLAUDE F. CLAYTON MEMORIAL SCHOLARSHIP
THE HUGH C. "BUZZY" CLAYTON MEMORIAL SCHOLARSHIP
THE J.P. COLEMAN SCHOLARSHIP IN LAW ENDOWMENT
THE CHARLES E. CULPEPER FOUNDATION, INC. SCHOLARSHIP IN LAW
THE OVERTON AND LAVONA CURRIE ENDOWMENT
THE DANIEL, COKER, HORTON, AND BELL FIRM SCHOLARSHIP
THE EARL W. DeHART MEMORIAL SCHOLARSHIP
THE FRANK MING DERAMUS MEMORIAL SCHOLARSHIP IN LAW ENDOWMENT
THE JAMES OLIVER EASTLAND SCHOLARSHIP IN LAW
THE EATON AND COTTRELL SCHOLARSHIP IN LAW
THE LAMAR ORDER/JUDGE JOHN E. ELLIS MEMORIAL SCHOLARSHIP IN LAW
THE JUDGE W.N. ETHRIDGE, JR., MEMORIAL LAW SCHOLARSHIP
THE DEAN ROBERT J. FARLEY AWARD
THE FELLOWS OF THE YOUNG LAWYERS OF THE MISSISSIPPI BAR SCHOLARSHIP
THE LAMAR ORDER/WILLIAM O. FITCH SCHOLARSHIP IN LAW
THE LENOX LAMAR FORMAN SCHOLARSHIP IN LAW
THE JOHN H. FOX, JR., MEMORIAL LAW SCHOLARSHIP
THE LIX J. FRUGÉ SCHOLARSHIP IN LAW
THE GHOLSON HICKS & NICHOLS SCHOLARSHIP IN LAW
THE GIROD LAW SCHOLARSHIP
THE HSS SCHOLARSHIP
THE LAMAR HARDY MEMORIAL LAW SCHOLARSHIP
THE NOBLE AND DOROTHY HARRELSON SCHOLARSHIP ENDOWMENT
THE ROWLAND W. HEIDELBERG, JR., LAW SCHOLARSHIP
THE AUGUSTUS LONGSTREET HEISKELL SCHOLARSHIP FUND
THE LAMAR ORDER/HARVEY HENDERSON SCHOLARSHIP IN LAW

THE PAT HOLCOMB SCHOLARSHIP IN LAW
THE ALBERT N. HOPKINS SCHOLARSHIP ENDOWMENT FUND
THE LAMAR ORDER/CARSON HUGHES, JR., AND MORELLA KUYKENDALL HUGHES MEMORIAL SCHOLARSHIP IN LAW
THE INTEREST ON LAWYER TRUSTS ACCOUNTS SCHOLARSHIP
THE JONES COUNTY BAR ASSOCIATION SCHOLARSHIP
THE LAMAR ORDER MINORITY SCHOLARSHIP ENDOWMENT
THE LAMAR ORDER SCHOLARSHIP
THE STEPHEN EDWARD LAUNIUS MEMORIAL SCHOLARSHIP IN LAW
THE LAMAR ORDER/LAW CLASS OF 1960 SCHOLARSHIP
THE LAW SCHOOL ACADEMIC SCHOLARSHIP FUND
THE LAW SCHOOL GENERAL ENDOWMENT
THE LAW WIVES SCHOLARSHIP
THE MICHAEL T. LEWIS AND PAULINE SHULER LEWIS SCHOLARSHIP IN LAW
THE BRENDA MATTHEWS MEMORIAL SCHOLARSHIP IN LAW
THE LAMAR ORDER/MAYO MALLETT PLLC SCHOLARSHIP IN LAW
THE JAMES McCLURE, SR., AND HELENE POWELL McCLURE MEMORIAL SCHOLARSHIP IN LAW
THE McCRANEY & MONTAGNET PLLC SCHOLARSHIP IN LAW
THE LEONARD B. MELVIN, JR., LECTURESHIP IN LAW
THE RAY S. MIKELL LAW SCHOLARSHIP
THE MISSISSIPPI ASSOCIATION OF COUNTY BOARD ATTORNEYS SCHOLARSHIP
THE MISSISSIPPI BANKRUPTCY CONFERENCE INC. SCHOLARSHIP
THE MISSISSIPPI BAR FOUNDATION SCHOLARSHIP
THE MISSISSIPPI TRIAL LAWYERS ASSOCIATION'S FRANCIS S. BOWLING SCHOLARSHIP
THE MISSISSIPPI VALLEY TITLE INSURANCE COMPANY/GEORGE PAYNE COSSAR, SR., SCHOLARSHIP IN LAW
THE WILLIAM P. AND MARY ANNIS CLAYTON MITCHELL SCHOLARSHIP IN LAW
THE LAMAR ORDER/MOOT COURT BOARD ENDOWMENT
THE HARVEY LEE MORRISON MEMORIAL SCHOLARSHIP IN LAW
THE MORTHLAND FAMILY MEMORIAL LAW SCHOLARSHIP
THE JULIUS OWEN MOSS MEMORIAL SCHOLARSHIP IN LAW
THE E. S. "NED" NELSON MEMORIAL SCHOLARSHIP IN LAW
THE LAMAR ORDER/ED D. NOBLE, SR., AND DORA F. NOBLE SCHOLARSHIP IN LAW
THE WILLIAM M. PACE MEMORIAL SCHOLARSHIP
THE LAMAR N. "SCOTTY" PALMER MEMORIAL SCHOLARSHIP ENDOWMENT
THE JAMES L. PETTIS SCHOLARSHIP IN LAW ENDOWMENT

THE LEVI PETTIS MEMORIAL SCHOLARSHIP
THE PHELPS DUNBAR SCHOLARSHIP
THE LAMAR ORDER/PROLEGIA SCHOLARSHIP ENDOWMENT IN LAW
THE PROVOST'S LAW SCHOOL SCHOLARSHIP
THE WINSTON BROWNLEE PRUDE SCHOLARSHIP
THE JEFFERY P. REYNOLDS, P.A., ENVIRONMENTAL LAW SCHOLARSHIP
THE JEFFERY P. REYNOLDS AND WORTH THOMAS P.A. DIVERSITY ESSAY COMPETITION SCHOLARSHIP
THE M.M. ROBERTS SCHOLARSHIP FUND
THE LAMAR ORDER/ROCK RIVER LAW SCHOLARSHIP ENDOWMENT
THE BENJAMIN H. SANDERS MEMORIAL SCHOLARSHIP IN LAW
THE LAMAR ORDER/TOM B. SCOTT, JR., SCHOLARSHIP IN LAW
THE WILLIAM BURNS SHAW MEMORIAL SCHOLARSHIP
THE DAN H. SHELL II MEMORIAL SCHOLARSHIP IN LAW
THE LAMAR ORDER/JIMMY D. SHELTON SCHOLARSHIP IN LAW ENDOWMENT
THE CAROLYN ELLIS STATON SCHOLARSHIP IN LAW
THE RAY M. AND LOUISE OLIVER STEWART LAW ENDOWMENT FUND
THE SWEAT FAMILY SCHOLARSHIP ENDOWMENT
THE LAMAR ORDER/JOHN S. THROOP, JR., LAW SCHOLARSHIP
THE JUDGE JOHN A. "JACK" TRAVIS, JR., AND JANE McCARTY TRAVIS MEMORIAL SCHOLARSHIP
THE EDITH WAITS TURLEY MEMORIAL SCHOLARSHIP
THE UMCLE SCHOLARSHIP IN LAW
THE UNIVERSITY OF MISSISSIPPI SCHOOL OF LAW SCHOLARSHIP
THE UNIVERSITY OF MISSISSIPPI TAX LAWYER'S SCHOLARSHIP
THE WATKINS LUDLAM WINTER AND STENNIS ENDOWMENT
THE MARY ANN WELSH AND JEANNE D. DEWEESE MEMORIAL SCHOLARSHIP IN LAW
THE LOUIS WESTERFIELD MEMORIAL SCHOLARSHIP ENDOWMENT
THE BUD B. WHETSTONE SCHOLARSHIP IN LAW
THE MR. AND MRS. FRANK G. WHITAKER MEMORIAL SCHOLARSHIP IN LAW
THE WILL M. WHITTINGTON MEMORIAL LAW SCHOLARSHIP
THE DEAN PARHAM WILLIAMS SCHOLARSHIP IN LAW ENDOWMENT
THE LAMAR ORDER/EARL R. WILSON MEMORIAL SCHOLARSHIP IN LAW
THE BEN FRANK WORSHAM SCHOLARSHIP
THE WILLIAM T. WYNN MEMORIAL ENDOWMENT
THE YOUNG*WILLIAMS P.A. SCHOLARSHIP ENDOWMENT IN LAW

SCHOOL OF PHARMACY

Scholarships

THE DAWN ALLEN MEMORIAL SCHOLARSHIP is awarded to a member of the P5 and P6 class based on scholarship, leadership, and active participation in student-related activities. Preference will be given to graduates of Holmes Community College.

THE SIDNEY K. ARMSTRONG SCHOLARSHIP IN PHARMACY, established in 1983, is awarded annually by the School of Pharmacy Scholarship Committee.

THE WILLIAM H. BERRY SCHOLARSHIP was established in 1994 through the estate of Mr. Berry. Recipients shall be Mississippi residents already admitted to the professional pharmacy program.

THE CHILTON MEMORIAL SCHOLARSHIPS. Through the bequest of the late Mr. T.D. Chilton, who for many years operated a pharmacy in Vicksburg, Mississippi, the School of Pharmacy is able to offer annually several scholarships to students in the school. The criteria for selection are scholarship, leadership, and need.

THE ROBERT W. CLEARY PHARMACY SCHOLARSHIP was established in 2001 by Joan Cleary, in memory of Dr. Robert Cleary, former chair of pharmaceuticals. It is awarded to full-time students admitted to the professional pharmacy program.

THE HARRIET NAOMI EASLEY COX MEMORIAL SCHOLARSHIP IN PHARMACY was established by Mr. A. Conley Cox of West Point, Mississippi, in memory of his wife. The scholarship is available to students who meet established criteria for the award. Recipients must be Mississippi residents, preferably residing in Clay County.

THE GRACE S. AND N.V. "CY" DOTY SCHOLARSHIP IN PHARMACY. Mr. Arthur W. Doty established this scholarship in 1979 in honor of his parents to benefit students in the School of Pharmacy. Recipients must be native Mississippians with demonstrated financial need and achievement in the areas of leadership, academics, and professional competence in the field of pharmacy.

THE JACK R. DUNN MEMORIAL SCHOLARSHIP. Established by his family in memory of Mr. Dunn, who for many years operated a pharmacy in Lexington, Mississippi, this scholarship is awarded to professional pharmacy students.

THE WILLIAM E. FARLOW FELLOWSHIP ENDOWMENT was established in 1995 by friends and family of William E. Farlow to provide financial assistance to graduate students in the School of Pharmacy.

THE HENRY MINOR FASER SCHOLARSHIP was established in 1986. Recipients shall be full-time students of at least junior standing, who have been admitted to the professional pharmacy program.

THE GALEN ORDER/MEDICINAL CHEMISTRY—SAM NOBLES AWARD was established to provide income for use by the School of Pharmacy at The University of Mississippi.

THE ALTA RAY GAULT MEMORIAL SCHOLARSHIP was established in 1968 for students in the School of Pharmacy.

THE HARTMAN-JOHNSON MEMORIAL SCHOLARSHIP was established in honor of Dr. Charles W. Hartman, the late dean of the School of Pharmacy, and Dr. W.W. Johnson, the late pharmacy professor. It is awarded annually to a pharmacy student enrolled in the professional program.

THE JAMES O. HOGUE SCHOLARSHIP was established by friends and colleagues of the late Mr. Hogue to honor his memory, while providing scholarship assistance to a senior pharmacy student dedicated to retail pharmacy and indicates a strong ability in pharmacy management.

THE LEADERSHIP SCHOLARSHIPS. The School of Pharmacy will award \$500 scholarships to class president and student body officers (4) the year following their election, based on the demonstration of appropriate leadership skills during the year in office. This determination will be made by the associate dean for academic and student affairs in consultation with the coordinator of student professional development.

THE CLYDE STANTON MAXCY MEMORIAL SCHOLARSHIP was established by his family in his memory. Maxcy was a 1981 graduate of the School of Pharmacy. The scholarship is awarded to professional pharmacy students.

THE FRANCES G. McDONALD SCHOLARSHIP was established in 1980. Recipients shall be full-time students who are pursuing a pharmacy degree.

THE C. MILTON O'KEEFE SCHOLARSHIP IN PHARMACY, established in 1985 by friends and relatives of the late Jackson, Mississippi, pharmacist. Students must be in the professional pharmacy program and plan to enter private practice to qualify for this award.

THE BRUCE R. PARKS, JR., MEMORIAL PHARMACY SCHOLARSHIP, established in 2003 to honor Dr. Parks' many contributions to the school and its students, during his years of service as a devoted member of the faculty. Recipients will be students in the final two years of the professional program, who in addition to their academic achievement, demonstrate a commitment to community service.

THE PHARMACOLOGY AWARD ENDOWMENT was established in 2002 by Dennis and Grace Feller of Oxford, Mississippi. Recipient shall be a full-time student who is enrolled in the School of Pharmacy Doctoral Program and who is selected on the basis of financial need, academic performance, and research performance.

THE PLOUGH PHARMACY SCHOLARSHIPS are named in honor of Mr. Abe Plough, founder of Plough, Inc., and the Plough Foundation, who established the fund. These scholarships are available to professional pharmacy students.

THE EDITH PRITCHARD PHARMACOLOGY AWARD was established in 1989 by the Department of Pharmacology at The University of Mississippi. Awarded to a full-time student enrolled in the doctoral program who demonstrates financial need, academic performance, and research performance.

THE AMY McELROY RUTHERFORD MEMORIAL SCHOLARSHIP was established in 1994 by Joe B. Rutherford. Recipients shall be full-time students who have been admitted to the professional pharmacy program. First preference is given to students from DeSoto County, Mississippi, and Shelby County, Tennessee.

THE VICKSBURG HOSPITAL MEDICAL FOUNDATION SCHOLARSHIP was established to assist professional pharmacy students, with preference given to those from the Vicksburg area.

THE BARBARA AND RICHARD WELLS SCHOLARSHIP, established in 2001, is awarded to members of the P5 and P6 class based on active participation in student professional activities.

In addition, the school annually receives scholarship contributions from various pharmacy companies to award deserving students. Students in the B.S. in Pharmaceutical Sciences marketing and management track also are eligible for scholarships provided by Pfizer Pharmaceuticals, Healthcare Marketing and Communications Council, and the Perrigo Corporation.

THE OLE MISS WOMEN'S COUNCIL FOR PHILANTHROPY SCHOLARSHIPS

THE BAPTIST MEMORIAL HEALTH CARE CORPORATION COUNCIL SCHOLARSHIP was established in 2003 by the Baptist Memorial Health Care Foundation to assist deserving young men and women who are pursuing an education in the health care field at The University of Mississippi. The scholarship recipient will be a full-time student who is majoring in the health care field. Recipient will be selected on the basis of demonstrated academic ability and leadership potential. The scholarship will continue, based on annual review by the Council, until a degree is received.

THE BARDWELL, BRUMFIELD, AND DIAL COUNCIL SCHOLARSHIP was established in 2004 by Susan Margaret Bardwell to honor Patricia Rosalie Brumfield, Betty Jane Dial, and Susan Margaret Bardwell and to assist deserving men and women who are pursuing an education at The University of Mississippi. First preference will be given to a full-time student majoring in the School of Engineering, with second and third preferences given to a student majoring in the Department of Journalism and any academic program respectively at The University of Mississippi. The recipient shall be a full-time student who is chosen on the basis of need, demonstrated academic ability, and leadership potential. The scholarship will continue, based on annual review by the Council and maintaining a 3.0 GPA, until a degree is received.

THE SALLY McDONNELL BARKSDALE COUNCIL SCHOLARSHIP was established in 2004 by the family of Sally McDonnell Barksdale, represented by Susan Barksdale Howorth, to honor Sally McDonnell Barksdale and to assist deserving young men and women who are pursuing an education at The University of Mississippi. The recipients shall be full-time students who are chosen on the basis of demonstrated academic ability and leadership potential. The scholarship will continue, based on annual review by the Council, until a degree is received.

THE ELIZABETH BREVARD COUNCIL SCHOLARSHIP was established in 2001 by friends and family of Elizabeth B. Brevard of Tupelo, Mississippi. The scholarship recipient shall be an undergraduate or graduate student who is pursuing a degree in Southern studies. The scholarship recipient shall be a full-time student who is chosen on the basis of demonstrated academic ability, service leadership potential, and other criteria set forth by the scholarship governing committee.

THE KATHRYN H. AND DAVID J. BREWER COUNCIL SCHOLARSHIP was established in 2000 by Kathryn Brewer Black of Oxford, Mississippi. The scholarship recipient will be an undergraduate student who will pursue a major within the College of Liberal Arts.

THE DOROTHY GRAHAM BROWN COUNCIL SCHOLARSHIP was established in 2000 by Susan Anthony Keith of Long Beach, Mississippi. The recipients shall be full-time students who are chosen on the basis of demonstrated academic ability and leadership potential.

THE MILDRED H. CENTER COUNCIL SCHOLARSHIP was established in 1995 by the Raymond H. and Mildred H. Center Foundation of Florida. The recipients shall be full-time students who are chosen on the basis of high moral character, financial need, academic ability, and leadership potential. The recipient shall be from one of the following counties: Lee, Prentiss, Tishomingo, Itawamba, Alcorn, Tippah, Benton, Union, Marshall, Lafayette, and Pontotoc. Recipients must be able to prove they are free of any involvement with illegal drugs and must maintain GPA of at least 3.0 each semester. He/she will be expected to participate in a leadership development program and mentoring program in addition to academic pursuits.

THE JENNIE MOSBY COCHRAN COUNCIL SCHOLARSHIP was established in 2002 by Dr. Lanelle G. Gafford of Jackson, Mississippi, as an endowed fund through The Ole Miss Women's Council for Philanthropy at The University of Mississippi. The purpose of the fund is to honor Jennie Mosby Cochran, also known as "Aunt Jennie," and to assist deserving young men and women pursuing an education at The University of Mississippi. The scholarship recipient will be a full-time student who is selected on the basis of demonstrated academic ability and leadership potential. The scholarship will continue, based on annual review by the Council, until a degree is received.

THE GLORIA CLARK COX COUNCIL SCHOLARSHIP was designated in 2001 by Pamela Cox Tims and Arthur A. Cox to honor in perpetuity their mother and to provide scholarship assistance to full-time students with first preference to deserving students from Amite County, Mississippi.

THE SHIRLEY WAGNER CRAWFORD COUNCIL SCHOLARSHIP was established in 2001 by Larry and Susan Martindale of Atlanta, Georgia, to honor the spirit and character of Shirley Crawford. The scholarship will assist deserving students who have a demonstrated record of achievement and service leadership. Selection of recipient based on school involvement, extracurricular activities, and community involvement. Recipient will be an entering freshman, who will be nominated by his/her high school guidance counselor who will submit recommendations from a member of the high school administration or faculty. A currently enrolled student may be a candidate for this scholarship upon the recommendation of a member of the administration or faculty.

THE CELIA AND JOHN O. EMMERICH, JR., COUNCIL SCHOLARSHIP was established in 2001 by Celia B. Emmerich of Greenwood, Mississippi. The scholarship recipient will be an undergraduate student who will pursue a major in journalism. The scholarship will continue, based on annual review by the Council, until a degree is received.

THE FEDEX COUNCIL SCHOLARSHIP was established in 2003 by the FedEx Corporation of Memphis, Tennessee. The recipients shall be full-time students who are chosen on the basis of demonstrated academic ability and leadership potential. The scholarship will continue, based on annual review by the Council, until a degree is received.

THE EXIE GUYTON GAFFORD COUNCIL SCHOLARSHIP was established in 2000 by Lanelle Guyton Gafford of Jackson, Mississippi. The recipients shall be full-time students with first preference given to students from Union County or other Northeast Mississippi counties.

THE LANNIE E. GAFFORD COUNCIL SCHOLARSHIP was established in 2002 by Dr. Lanelle G. Gafford of Jackson, Mississippi. The purpose of the fund is to honor Lannie E. Gafford, and to assist deserving young men and women who are pursuing an education at The University of Mississippi. The scholarship recipient will be a full-time student who is a resident of Northeast Mississippi with first preference being given to Union residents. Recipient will be selected on the basis of demonstrated academic ability and leadership potential. The scholarship will continue, based on annual review by the Council, until a degree is received.

THE EMMA STROUD GRIFFIN COUNCIL SCHOLARSHIP was established in 2000 by Jan Griffin Farrington of Jackson, Mississippi. The scholarship recipient will be an undergraduate student who will pursue a major in education. First preference will be given to a nontraditional student who may have other responsibilities as a parent or wage earner. Other qualified students, male or female, may be selected based on scholastic ability and leadership potential.

THE KATHRYN HEALY HESTER COUNCIL SCHOLARSHIP was established in 2003 by Kathryn Healy Hester of Jackson, Mississippi. A recipient will be chosen on the basis of demonstrated academic ability and leadership potential. The scholarship will continue, based on annual review by the Council, until a degree is received.

THE ROSA HEALY HESTER AND WILLIAM E. HESTER, JR., COUNCIL SCHOLARSHIP was established in 2003 by Kathryn Healy Hester to honor her parents, Rosa Healy Hester and William Hester, Jr. The scholarship recipient will be a full-time undergraduate student who will pursue a major within the College of Liberal Arts. A recipient will be chosen on the basis of demonstrated academic ability and leadership potential. The scholarship will continue, based on annual review by the Council, until a degree is received.

THE CHRISTINE HICKONBOTTOM COUNCIL SCHOLARSHIP IN ACCOUNTANCY was established by Edith Kelly-Green in memory of her grandmother in 1999. Recipients will be full-time students admitted to the professional accountancy program with first preference given to minority female students who are residents of Mississippi; second preference, to any minority female; third preference, to any deserving minority student from Mississippi. Recipients may be pursuing undergraduate or graduate degrees within the School of Accountancy and must maintain at least a 3.0 GPA.

THE SUE HODGE COUNCIL SCHOLARSHIP was established in 2001 by Scott J. Walker of Ocean Springs, Mississippi. The recipients shall be full-time students who are chosen on the basis of demonstrated academic ability and leadership potential.

THE LENA BYRD JONES AND TED THAMES PENDLEY COUNCIL SCHOLARSHIP was established in 2002 by Gail Pittman of Ridgeland, Mississippi. The scholarship recipients shall be full-time students who are chosen on the basis of demonstrated academic ability, leadership potential, and other criteria set forth by the scholarship committee of the OMWC.

THE GLORIA DODWELL KELLUM COUNCIL SCHOLARSHIP was established in 2004 by friends and family of Dr. Gloria D. Kellum to assist students who are majoring in communicative disorders in the School of Applied Sciences. Selection of recipient shall be made by the Ole Miss Women's Council Scholarship Selection Committee. Recipients shall be full-time students who are chosen on the basis of demonstrated academic ability and leadership potential. The scholarship will continue, based on annual review by the Council, until a degree is received.

THE LINDSAY McCAULEY KIRKLEY COUNCIL SCHOLARSHIP was established in 2004 by Martha Dunn Kirkley of Columbus, Mississippi, to honor Dr. Joseph Urgo, chair of the Department of English and to assist deserving young men and women who are pursuing a major in the College of Liberal Arts at The University of Mississippi. Recipients shall be full-time students who are majoring in the College of Liberal Arts and shall be selected on the basis of demonstrated academic ability and leadership ability. The scholarship will continue, based on annual review by the Council and maintaining at least a 2.5 GPA, until a degree is received.

THE LENA MITCHELL MARQUETTE COUNCIL SCHOLARSHIP was established in 1993 by Dr. Clare L. Marquette of Louisville, Mississippi, to honor his wife. Recipients will be full-time students with first preference given to outstanding graduates of Louisville High School. Recipients must maintain a GPA of 2.8 for each of the first two semesters at the University and a GPA of 3.0 each successive semester thereafter.

THE RACHEL McPHERSON COUNCIL SCHOLARSHIP was established in 2000 by Rachel S. McPherson, of New York City. The purpose of the fund is to assist deserving young men and women who are pursuing an education in visual arts and choral music at The University of Mississippi. Provides two scholarships: one to a student in the visual arts and one to a student in the choral music program. The recipients for each scholarship may be an entering freshman or a transfer student. The selection criteria for each scholarship will be demonstrated talent and creativity.

THE SARAH MEISENHEIMER COUNCIL SCHOLARSHIP was established in memory of Sarah in 1999 by her family. The scholarship will assist outstanding students who have a demonstrated record of achievement and service leadership. Recipient will be chosen on the basis of scholastic ability, leadership potential, and financial need. He/she will be expected to participate in a leadership development program and mentoring program in addition to academic pursuits.

THE CELIA CARTER MUTHS COUNCIL SCHOLARSHIP was established in 2000 by Celia Carter Muths to assist deserving students who are pursuing a major in music. The recipient for the scholarship may be an entering freshman, a currently enrolled student, or a transfer student. Selection of the recipient will be based on demonstrated talent, creativity, and scholastic ability. He/she will be expected to participate in a leadership development program and mentoring program in addition to academic pursuits.

THE OXFORD BUSINESS WOMEN'S COUNCIL SCHOLARSHIP was established by business women of Oxford, Mississippi. The scholarship recipient shall be a full-time student who is chosen on the basis of demonstrated academic ability, service leadership potential, and other criteria set forth by the scholarship governing committee.

THE DONNA RUTH ELSE ROBERTS COUNCIL SCHOLARSHIP was established in 2001 by Donna Ruth Else Roberts of Oxford, Mississippi, to assist deserving students who are pursuing a major within the School of Business Administration. The recipients shall be full-time students enrolled in the School of Business Administration. Selection criteria shall be demonstrated academic ability and outstanding leadership potential.

THE LYNDA MEAD SHEA COUNCIL SCHOLARSHIP was established in 2000 by Lynda and John Shea of Memphis, Tennessee, to provide a scholarship for the Sally McDonnell Barksdale Honors College and to provide funds for study abroad. Recipients shall be selected by the faculty of the Honors College with the approval of the dean. He/she will be expected to participate in a leadership development program and mentoring program in addition to academic pursuits.

THE PRESCOTT ALDEN SHERMAN COUNCIL SCHOLARSHIP was established in 2004 by Elizabeth Sherman Shelton of McComb, Mississippi, as an endowed fund through The Ole Miss Women's Council for Philanthropy at The University of Mississippi. The purpose of the fund is to honor her father, Mr. Prescott Alden Sherman, and memorialize her mother, Elizabeth West Sherman, and to assist deserving young men and women pursuing an education at The University of Mississippi. First preference will be given to high school students or community college transfer students from Pike County. The recipient shall be a full-time student who is chosen on the basis of leadership potential, moral values, and financial need. The scholarship will continue, based on annual review by the Council and maintaining at least a 2.5 GPA, until a degree is received.

THE NANCY STUMBERG COUNCIL SCHOLARSHIP was established in 2003 by Nancy H. Stumberg of San Antonio, Texas. The recipients shall be full-time students who are chosen on the basis of demonstrated academic ability and leadership potential.

THE GERTRUDE HUDSON TURNER COUNCIL SCHOLARSHIP was established in 1986 by Dr. Wilson Hudson Turner of Dothan, Alabama, in memory of his mother. The scholarship shall be awarded on the basis of financial need, scholastic ability, and leadership potential. The award shall be for a minimum of \$5,000 per year, divided equally over two semesters. Recipients shall be full-time female undergraduate students from Yalobusha County, Mississippi, who have been residents for at least three years prior to graduation from high school. One award will be made to a student who attended a high school in the city limits of Water Valley. Another award will be made to a student who attended any other high school in Yalobusha County, outside the city limits of Water Valley. Scholarship awards will be for a maximum of 10 semesters or until the baccalaureate degree is received.

THE BECKY JONES WEST COUNCIL SCHOLARSHIP was established in 2001 by Becky Jones West of Memphis, Tennessee. The scholarship recipients shall be full-time students who are chosen on the basis of demonstrated academic ability, leadership potential, and other criteria set forth by the scholarship committee of the OMWC. Preference shall be given to female students.

THE MARY JANE AND EDWARD R. WILSON COUNCIL SCHOLARSHIP was established in 2000 by Meredith Creekmore in memory of her parents. First preference for the scholarship recipient shall be a graduate student who as an undergraduate student was a resident of Panola County. If there is no qualifying student, a deserving undergraduate student who is a resident of Panola County may be selected. The scholarship recipient shall be a full-time student who is chosen on the basis of demonstrated academic ability, leadership potential, and other criteria set forth by the scholarship committee of the OMWC. He/she will be expected to participate in a leadership development program and mentoring program in addition to academic pursuits.

THE OLE MISS FIRST SCHOLAR AWARDS

THE RICHARD M. FOUNTAIN OLE MISS FIRST SCHOLAR AWARD was established by Richard Fountain of Jackson, Mississippi. Recipients will be a full-time student whose parent/parents is and/or has been involved in an asbestos law suit.

THE HAP HEDERMAN AND DOUG HEDERMAN OLE MISS FIRST SCHOLAR AWARD was established in 2004 by Hap Hederman and Doug Hederman of Jackson, Mississippi, to assist deserving men and women who are enrolled in the School of Business Administration at The University of Mississippi. Recipients will be full-time freshman enrolled in the School of Business Administration. Selection of recipient will be made on merit and/or need. Contingent upon maintaining a 3.0 cumulative GPA, the award may be received for a maximum of eight semesters.

THE ROBERT C. KHAYAT OLE MISS FIRST SCHOLAR AWARD was established in 2004 by Dr. Robert C. Khayat of Oxford, Mississippi, to assist deserving men and women who are pursuing an education at The University of Mississippi. Recipient will be a full-time freshman from Moss Point High School. Selection of recipient will be made on merit and/or need. Contingent upon maintaining a 3.0 cumulative GPA, the award may be received for a maximum of eight semesters.

THE LEILA AND SAM LANE OLE MISS FIRST SCHOLAR AWARD was established in 2004 by Leila and Sam Lane of Jackson, Mississippi, to assist deserving men and women who are pursuing an education at The University of Mississippi. Recipient will be a full-time freshman from inner-city Jackson, Mississippi. Selection of recipient will be made on merit and/or need. Contingent upon maintaining a 3.0 cumulative GPA, the award may be received for a maximum of eight semesters.

THE GUY W. MITCHELL, SR., AND GUY W. MITCHELL, JR., OLE MISS FIRST SCHOLAR AWARD was established in 2004 by Guy W. Mitchell III of Tupelo, Mississippi, to assist deserving young men and women who are pursuing an education at The University of Mississippi. Recipients will be full-time freshman from Tupelo High School who has a predisposition for law. Selection of recipient will be made on merit and/or need. Contingent upon maintaining a 3.0 cumulative GPA, the award may be received for a maximum of eight semesters.

THE DR. DORIS DUNN PHILLIPS OLE MISS FIRST SCHOLAR AWARD was established by Richard T. Phillips of Batesville, Mississippi. Recipients will be full-time students, with preference being given to those who transfer from Northwest Mississippi Community College.

THE MARK M. PORTER OLE MISS FIRST SCHOLAR AWARD was established in 2004 by Charles F. Porter of Ridgeland, Mississippi, to assist deserving men and women who are full-time students majoring in insurance in the School of Business Administration at The University of Mississippi. Selection of recipient will be made on merit and/or need. Contingent upon maintaining a 3.0 cumulative GPA, the award may be received for a maximum of eight semesters.

THE PATRICIA H. SNEED OLE MISS FIRST SCHOLAR AWARD was established in 2004 by John B. Sneed II of Gulfport, Mississippi, to assist deserving men and women who are pursuing an education at The University of Mississippi. Recipients will be full-time freshman from Gulfport High School who is pursuing a major in the School of Education. Selection of recipient will be made on merit and/or need. Contingent upon maintaining a 3.0 cumulative GPA, the award may be received for a maximum of eight semesters.

THE GLADYS/MILTON STARNES OLE MISS FIRST SCHOLAR AWARD was established in 2002 by Michael Starnes to provide income to the Ole Miss First Scholars Program. Recipients will be full-time freshman enrolled at The University of Mississippi. Selection of recipients will be made based on merit and/or need. Contingent upon maintaining a 3.0 cumulative GPA, the award may be received for a maximum of eight semesters.

LOAN PROGRAMS

FEDERAL PERKINS LOAN PROGRAM. The Perkins Loan Program is a low interest, federally funded loan program for both undergraduate and graduate students. The loan is administered by the University and is based on need. As long as the student is enrolled in school, the federal government subsidizes the interest. Repayment begins nine months after the student graduates or leaves school. The repayment term is up to 10 years with a minimum monthly payment of \$40.

FEDERAL SUBSIDIZED STAFFORD LOANS. The Federal Subsidized Stafford Loan is a low-interest loan made to students who demonstrate financial need. Undergraduates may borrow \$2,625 for the freshman year, \$3,500 for the sophomore year, and \$5,500 for the junior and senior years. Graduate/professional students may borrow up to \$8,500 per year. Undergraduate students may borrow an aggregate limit of \$23,000. Graduate and professional students may borrow up to a total of \$138,500 (this includes undergraduate Subsidized and Unsubsidized Stafford Loans). The interest rate is variable and capped at 8.25 percent. While enrolled in school at least half-time, the interest is paid by the federal government. Repayment begins after a six-month grace period once the student graduates, withdraws, or drops below half-time status. Repayment may take as long as 10 years.

FEDERAL UNSUBSIDIZED STAFFORD LOANS. Amounts and interest rate for this loan are the same as for the Subsidized Stafford Loan; however, the student is responsible for paying the interest while enrolled in school and during any grace period or deferment. This loan is not based on financial need. A student may opt to have the interest deferred and accrued or choose to pay the interest charges while enrolled. Students may borrow a combination of Subsidized and Unsubsidized loans, but may not exceed the annual or aggregate loan limits stated previously. Repayment terms are the same as for the Federal Subsidized Stafford Loan. Independent undergraduates, and dependent undergraduates whose parents cannot borrow under the federal PLUS program, may be eligible for an additional \$4,000 for the first or second year and up to \$5,000 for each remaining undergraduate year. Graduate and professional students may borrow up to \$10,000 per year. These amounts are in addition to the amounts borrowed under the Subsidized Stafford Loan Program.

FEDERAL PLUS PROGRAM (PARENT LOAN FOR UNDERGRADUATE STUDENTS). The Federal PLUS Program is for parents of dependent students and is based on credit worthiness. Under this program, parents may borrow up to the cost of education at a particular institution minus any financial aid a student receives. The interest rate is variable with a cap of 9 percent. Repayment of a PLUS begins within 60 days of full disbursement and has a repayment term of up to 10 years.

THE GEORGE C. AND LAURA MCKINSTRY SCHOLARSHIP/LOAN FUND was established in 1973 by Dr. McKinstry in memory of his mother and father to provide low-interest loans to young men and women of character who have successfully completed one semester of college work. Preference is given to residents of Jones and Jasper counties in Mississippi.

FEDERAL HEALTH PROFESSION STUDENT LOAN PROGRAM. The Federal Health Profession Student Loan Program is a low-interest, federally funded loan program available to undergraduate and graduate students enrolled in pharmacy. The loan is administered by the University and is based on a need analysis that includes parental (regardless of the student's age) and student financial, demographic, and household information. While the student is enrolled in school and until repayment begins 12 months after leaving school, interest does not accrue.

ALTERNATIVE (OR "PRIVATE") STUDENT LOANS may be an important funding source for students who are ineligible for federal student loans, or who need more loan funds than the federal and University programs can supply. Alternative loans are not federally guaranteed and can take several weeks to process. All alternative loan programs require a credit check and/or an income-to-debt ratio check on either the borrower or co-signer or both.

THE J.R. SCRIBNER, JR., SCHOLARSHIP/LOAN FUND was established in 1997 by J.R. Scribner, Jr., to assist deserving young men and women of Mississippi who are pursuing an education at The University of Mississippi and Mississippi State University. Recipients shall be full-time students who are Mississippi residents with preference given to those residing north of Highway 82. Loan details are available from the Department of Financial Aid.

Academic Regulations

The regulations published in the Undergraduate Catalog are a digest of the rules of the institution. Changes may be made in the regulations at any time to promote the best interests of the University and its students. **Students are responsible** for knowing the published regulations, policies, and standards of the University and of their college or school.

CLASSIFICATION

A student's class standing is determined by the number of semester hours of course work completed, as follows:

	Semester Hours
FRESHMAN	0-29
SOPHOMORE	30-59
JUNIOR	60-89
SENIOR	90 or more

The student's academic dean determines which of the hours of completed course work may be applied towards a degree. To be classified as **full-time**, a student must be taking at least 12 semester hours. Students enrolled for fewer than 12 hours are classified as **part-time**.

CLASS SCHEDULES AND REGISTRATION

Advising and Student Responsibility • The University provides an academic advising system that requires each student to consult with an academic adviser prior to each registration period. The adviser's role is to assist the student in making course selections and to approve the student's schedule. The student, however, bears the ultimate responsibility for making appropriate choices when scheduling classes, including schedule changes made during the drop-add period. Although colleges, schools, and departments may monitor the final class schedule of students in their respective programs, the student also bears the ultimate responsibility for meeting all degree requirements. Where there is doubt concerning requirements, authoritative information may be obtained from the office of the student's academic dean.

Prerequisites • Some courses have prerequisites, which are listed in the Courses of Instruction chapter of this catalog. A student may not take a course unless these prerequisites have been met. Exceptions can only be made in special cases with the prior consent of the instructor, the department chair, and the dean.

In a continuous course sequence (such as ENGL 101, 102 or MATH 261, 262, 263, 264), the prior courses are prerequisite to the subsequent courses unless otherwise stated. Thus, a student who has failed one semester of a continuous course sequence may not take a subsequent course in that sequence until the failed course has been passed. In the case of foreign language sequences (such as SPAN 101, 102, 201, 202), a student may begin at any level but then must take any subsequent courses in order.

Registration Eligibility • To be eligible to register for classes, a student must be: (1) a new student who applies for admission and receives a CERTIFICATE OF ADMISSION, (2) a continuing student from the preceding regular semester or summer term, or (3) a former student, not enrolled in the preceding regular semester or summer term, who applies for re-admission and receives a CERTIFICATE OF RE-ADMISSION.

New Student Registration • Each new undergraduate student attends an orientation session prior to, or at the beginning of, the student's first semester. During this session, new students are given special assistance in setting up their first class schedule and are able to register for their classes. (See beginning of Student Life chapter.)

Responsibility for Fees • Students accept the responsibility for maintaining acceptable grades and for the payment of fees at the time they preregister. Fee payments are handled by mail. If a student has not made arrangements to pay fees or withdraw from the University by the end of the regular registration period, the student will be assessed the late registration fee.

Priority Registration • Continuing students may register for the next semester's classes by using the University's World Wide Web page on the Internet (www.olemiss.edu). Schedule booklets are distributed about six weeks before the end of a semester. An academic adviser must approve each student's schedule. The time when a student may begin registration varies for different categories of students; priorities for various groups are listed in the schedule booklet. Students accept the responsibility for maintaining acceptable grades and for the payment of fees at the time they preregister. Fee payments are handled by mail. If a student has not made arrangements to pay fees or withdraw from the University by the end of the regular registration period, the student will be assessed the late registration fee.

Registration • Students also may register for a semester during the several days prior to the beginning of classes. After consultation with an academic adviser, the student selects a schedule using the Web page system, and fees are paid on campus.

Late Registration • Students who do not register before classes begin have until the last day to register, which is the 10th day of classes of a regular semester, to complete the process. During this period, a late registration fee will be assessed. No student will be permitted to register for classes after the last day to register without a serious and compelling reason approved by the dean of the student's school or college. In no case may a student register after the last regular class day in any semester.

Late Payment of Fees • Completed enrollment includes the payment of tuition and fees. Students who anticipate late payment for good reason may appeal to the Late Registration Committee by submitting a petition letter to the bursar prior to the last day to register. Students whose petitions are approved are assessed, in addition to the late fee, a reinstatement fee plus a fee for each class day from the last day to register until payment is received. Students completing registration after the last day to register will not be permitted to use the deferred payment plan. Fee payment is not permitted after the last regular class day in any semester.

Drop-Add Procedures • Students may add courses, using the online Web page, through the fifth day in which classes meet during a regular semester. After the fifth day, students must have the approval of the instructor in the course. After the 10th day of classes (the last day to register), courses may be added only under extraordinary circumstances approved by the dean of the school or college in which the student is enrolled, and a small fee will be assessed per added course. In no case may a student add a class after the last regular class day in any semester.

A student may drop any course, using the registrar's Web page, until the course withdrawal deadline, which is 4:45 p.m. on the 25th day in which classes meet during a regular semester. However, after the 10th day of classes a small fee will be assessed per dropped course. No indication of enrollment in a course properly dropped will be shown on any University record.

Late Withdrawal from a Course • After the course withdrawal deadline, a student may drop a course only in cases of extreme and unavoidable emergency as determined by the student's academic dean. Unacceptable reasons for late withdrawal include dissatisfaction over an expected grade or a change in a student's degree program or major. In no case may a class be dropped after the last regular class day in any semester, session, or term.

Courses dropped after the course withdrawal deadline will still appear on the student's official transcript. The W mark will be recorded if the student is passing the course at the time of withdrawal; the F grade will be recorded if the student is failing.

Withdrawal from the University • A student who wishes to withdraw from the University during the course of a semester or summer term must notify the Office of the Registrar via fax, mail, or in person. Appropriate University offices (Student Housing, Financial Aid, Bursar, ID Center, Library, and Academic Dean) will be notified of the withdrawal by e-mail. Withdrawal from all courses cannot be done using the online Web page. Full refunds of tuition and fees (minus a processing fee) are given for withdrawals during the first 10 days of classes of a regular semester, and no refunds are given after the 10th day of classes. Students who withdraw must apply for readmission if not enrolling for the subsequent term.

A student required to withdraw from the University for involuntary military service may be given full credit for course work in progress provided at least four-fifths of the course requirements have been completed. The student's academic dean will decide if the four-fifths requirement is met, and the student's instructors will decide whether or not final examinations will be required.

Summer Term Deadlines • During a summer term, the last day for full refunds on complete withdrawals is the third day of classes, which is the last day to register or add courses, and the course withdrawal deadline is the 10th day of classes.

EXAMINATIONS

Regulations Governing All Examinations • A student's failure to appear for an examination without an acceptable excuse, absence from the room during the course of an examination without the consent of the examiner, or attempting any portion of an examination without submitting his or her answers shall result in failure of the examination. Tardiness beyond 15 minutes forfeits a student's right to an examination.

Final Examinations • Final examinations are scheduled at the end of each semester. The complete schedule of examinations for the next regular semester is distributed in the schedule booklet during the priority registration period. A student who has three or four final examinations in one day may arrange with the course instructor to take the noon or 7:30 p.m. examination at another time. In order to give a final examination at any time other than the time shown in the published examination schedule, an instructor must have prior approval of the department chair and dean.

CREDITS AND GRADES

The Semester Hour • A semester hour is the unit of credit earned over one semester for the work associated with one class hour per week of lecture or recitation, or two to four hours per week of laboratory.

Class Attendance • It is the responsibility of the instructor to notify classes at the outset of each course of the class attendance requirements. It is the responsibility of the student to comply with the class attendance policy.

A student who is absent from the entire first week of a class may be dropped from that class by the dean of the school or college with responsibility for the course. A student who incurs excessive absences in a given course may receive a grade of F for the course, and, in addition, may be dismissed from the class upon recommendation of the instructor and approval by the student's academic dean. When it appears to an instructor that a student has discontinued a class without officially dropping the course, the instructor will report this fact to the student's academic dean. The University reserves the right to dismiss from the University any student who has been excessively absent from multiple courses.

Class absences may occur when a student represents the University in official competitions or performances (athletic teams, cheerleading, band, chorus, orchestra, debate, theatre, ROTC, etc.). In these cases, academic departments and faculty should exercise fair and consistent standards for resolving questions of missed assignments and tests. Faculty and staff who supervise student teams and organizations are expected to schedule competitions and performances to minimize the number of classes that students will be forced to miss. Names of participating students and the dates of class conflicts should be provided to the students' instructors prior to participation. Students and instructors should resolve potential conflicts regarding class attendance before the semester course withdrawal deadline.

Pass-Fail Grading for Exercise and Leisure Activity Courses • The pass-fail basis is the only grading available for all one-hour (EL) exercise and leisure activity courses.

Grade Symbols • A final grade is the instructor's evaluation of a student's achievement throughout a semester's work in a course. Factors upon which the final grade may be based include attendance, recitation, written and oral quizzes and tests, reports, papers, the final examination, and other class activities. The evaluation is expressed according to the following letter system:

PASSING GRADES	FAILING GRADE	OTHER MARKS
A Excellent	F Failure	I Incomplete
B Good		IP In Progress
C Satisfactory		W Withdrawn
D Lowest passing grade		X Audit
P Pass		
Z Credit granted		

Grade Points and GPA • The grade-point average (GPA) is computed by dividing the number of ABCDF-graded hours attempted at The University of Mississippi into the total number of grade points earned at the University. Grade points per credit hour are assigned as follows: A = 4; B = 3; C = 2; D = 1; F = 0. The lowest C average is defined as a GPA of 2.00. Correspondence courses are not included in the GPA calculation.

F Grade • The grade of F is recorded if the student has failed on the combined evaluation of work through the semester, or if the student officially withdraws from the course after the course withdrawal deadline and was failing the course at the time of withdrawal.

P Grade • The grade of P is recorded for a student who earns a passing grade after enrolling in an exercise and leisure activity course on a pass-fail basis. P grades are not used in computing the student's GPA. F grades recorded for pass-fail course work are, however, computed in the GPA as F grades. The P grade is not used in determining whether a student qualifies to graduate with academic honors.

Z Grade • The Z grade is given to a student who earns a passing grade in certain courses for which the traditional grades of A, B, C, and D are deemed inappropriate. Courses for which the Z grade is authorized are denoted in the catalog listings; ABCD grades are not awarded in these courses. The Z grade is also given for advanced placement credit, for credit by examination as in the College Level Examination Program, for credit earned in some Study Abroad courses, for credit based on Armed Forces experiences, and for credit earned in a course for which a student has appropriately exercised the "Z grade option" described below.

Z grades are not used in computing a student's GPA; F grades recorded for Z-graded course work are, however, computed in the GPA as F grades. The Z grade is not used in determining whether a student qualifies to graduate with academic honors.

I Mark • The temporary mark of I (incomplete) is given to a student when, for unusual reasons acceptable to the instructor, course requirements cannot be completed before the end of the semester. The instructor must submit an I Mark Assignment Form to the registrar detailing the work to be completed and the deadline for completion. The registrar will convey a copy to the student. COURSE FAILURE OR UNEXPLAINED CLASS ABSENCES MAY NOT BE USED AS REASONS TO ASSIGN AN I MARK. I marks are not computed in determining a student's GPA. If an I mark for an undergraduate student has not been changed to a regular grade before the course withdrawal deadline (the 25th day of classes) of the next regular semester (excluding summer terms), the I automatically changes to an F and is computed in the GPA. AN I MARK MAY NOT BE REMOVED BY FORMALLY ENROLLING IN THE SAME COURSE IN A SUBSEQUENT SEMESTER AT THIS UNIVERSITY OR ANY OTHER INSTITUTION.

IP Mark • The mark of IP (in progress) may be assigned to the first course in specifically designated course sequences whose nature is such that a regular grade would not be appropriate until the conclusion of the second course. Although a student's course load reflects registration for the first course, both credit hours and grade points for the work done in both courses are assigned only upon completion of the second course. The IP mark is permanent, but is not used in computing the student's GPA. Course sequences for which the IP mark is authorized are denoted in the catalog listings.

W Mark • The W mark is recorded if the student obtains authorization to withdraw from a course after the course withdrawal deadline and was not failing the course at the time of withdrawal. The W mark is not computed in determining the GPA.

The Z Grade Option • A current undergraduate student who is classified as a junior or senior may elect to take one course for credit toward the student's undergraduate degree that would ordinarily be graded on an A, B, C, D, or F basis but for which the student will receive either a Z or an F grade. Upon making this election, the student will receive a Z grade for the course if the student earns the equivalent of a C or higher in the course; otherwise, the student will receive an F grade. To make this Z grade election as to a particular course, the student must obtain the approval of the student's dean. The election

may not be made as to the following courses: (1) a course that a student will use to satisfy University core curriculum requirements; (2) a course that a student will use to satisfy the required curriculum component of any major or minor course of study or any degree (that is, the courses specifically identified as required or the minimum semester hours in particular subjects or in a department indicated as required); and (3) a course that a student will use to satisfy any requirement of a major or minor course of study or degree that a minimum number of hours be taken in courses of a particular level or higher (e.g., 300 level or higher). If a student elects to take a course on a Z grade basis but then subsequently changes degree plans such that the course becomes one to which one of the foregoing exclusions apply, then the student must retake and receive credit for the course on an A, B, C, D, or F basis. A student who elects to take a course for a Z grade under this policy may rescind this election up through the last day for registering or adding classes, but not thereafter. Conversely, a student who registers to take a class offered on an A, B, C, D, or F basis but would be entitled to elect to take the class on a Z grade basis according to this policy may make this election up through the last day for registering or adding classes, but not thereafter.

X Mark • The mark of X is recorded for the student who enrolls as an auditor in a course and who fulfills all requirements established by the instructor for auditing students. If the student does not meet the requirements, no recording of the course is made to the student's permanent record. The deadline for changing one's status in a course to or from "audit" is the course withdrawal deadline.

Change of Grade • A course instructor may change a reported grade only if the original grade was incorrectly assigned due to clerical or computational error, or if a student meets the requirements for the removal of an I mark.

Repeating a Course • No course may be repeated for credit if the prior grade received was an A, B, or C unless the course is specifically authorized for repeat credit, or unless a higher grade is required as a prerequisite for a specific course. A course where the first grade received was A, B, or C may be taken again for audit credit with the consent of the instructor.

A student may repeat a course if the first grade received was D, F, Z, or P. Credit may be applied toward a degree only once, unless the course is specifically authorized for repeat credit. All grades will remain on the student's permanent record and will be computed in the student's overall GPA, except when the forgiveness policy is invoked.

The Forgiveness Policy • A current undergraduate student may improve his or her overall GPA by repeating a maximum of two courses in which the student received a grade of D or F, and requesting that the repeat grade be the only one counted in the GPA calculation. The repeat must be in the same course, taken at The University of Mississippi in fall 1992 or later. The student must file a Petition to Invoke Grade Forgiveness Policy with the registrar, stating which one or two courses are to be forgiven. Once the student has declared a course, a different course cannot be substituted for it at a later date. The forgiveness policy cannot be used to remove grades given for reasons of academic discipline. Forgiveness of a course grade will not change notations concerning academic standing or honors in the student's official record for the semester containing the forgiven course.

Although both courses will remain on the student's permanent record, the last grade received will be the one used to determine credit towards a degree and GPA. The first attempt will be recorded with both the grade earned and the symbol R to denote that it has been repeated. The recalculated GPA will be used for determining graduation honors.

Grade Reporting • Reports of final grades are available through the registrar's online Web page.

CREDIT BY EXAMINATION

A student must earn 12 hours at The University of Mississippi before any of the following credit-by-examination hours may be recorded on the student's transcript. The total number of hours one may earn through credit-by-examination programs is 63. The grade of Z is granted for these credits.

Advanced Placement (AP) • Students who participate in the College Entrance Examination Board Advanced Placement Program offered through their high school, and who earn appropriate scores on the AP examination, will receive the following academic credit:

Examination	Minimum Score	UM Course	Credit hours
Art, History	3-5	ARHI 281	3
Art, Studio	3-5	ART 101	3
Biology	3-5	BISC 102	3
Chemistry	4-5	CHEM 105	3 (no lab credit)
Comparative Government and Politics	4-5	POL 221	3
Computer Science A	3	CSCI 103	3
	4-5	CSCI 111	3
Computer Science A-B	4-5	CSCI 112	3
Economics-Macro	4-5	ECON 203	3
Economics-Micro	4-5	ECON 202	3
English Lit/Comp or Lang/Comp	3-4	ENGL 101	3
	5	ENGL 101, 102	6
Combination of English Lit/Comp and Lang/Comp	5 on one & 3-4-5 on other	ENGL 101, 102, 200	9
European History	4-5	HIS 101	3
French, Language	4-5	FR 101, 102	6
French, Literature	4	FR 309	3
	5	FR 310	3
German	4-5	GERM 101, 102	6
Latin, Virgil	3	LAT 306	3
	4-5	LAT 305, 306	6
Latin, Catullus	3-5	LAT 305	3
Mathematics, Calculus AB	4-5	MATH 261	3
Mathematics, Calculus BC	4-5	MATH 261, 262	6
Music Theory	3-5	MUS 102	3
Music Listening & Literature	3-5	MUS 103	3
Physics B	3-5	PHYS 107, 108	6
Physics C Mechanics	3-5	PHYS 107	3
Physics C Electricity and Magnetism	3-5	PHYS 107	3
Psychology	4-5	PSY 201	3
Spanish, Language	4-5	SPAN 101, 102	6
Spanish, Literature	4-5	SPAN 306	3
U.S. Government and Politics	3-5	POL 101	3
U.S. History	4-5	HIS 105	3

College Level Examination Program (CLEP) • Receiving CLEP credit in a specific degree program requires the approval of the dean and department chair concerned prior to taking the examination.

CLEP SUBJECT EXAMINATIONS. Credit is granted in accounting, American government, American history, biology, business law, chemistry, composition, economics, French, German, mathematics, psychology, sociology, Spanish, and western civilization to students who earn scores consistent with the American Council on Education recommendations concerning credit. Credit is granted in chemistry only if the student also submits a passing score on the American Chemical Society Test administered by the University's Department of Chemistry and Biochemistry. No credit is granted for chemistry lab courses.

Advanced Standing Examination • An advanced standing examination is one taken by a student who has had the equivalent of the course under competent instruction but cannot secure credit by transcript. An Application for Special Examination Form, provided by the registrar, must be approved by the instructor giving the examination and the student's academic dean. A fee is assessed for an advanced standing examination.

No more than 6 semester hours may be credited through advanced standing examinations. Credit by examination will not be given on work completed in high school (except for the Advanced Placement Program), or on work in excess of 65 semester hours transferred from a junior college. If a student enters a more advanced course in the subject, the advanced standing examination should precede registration for the course, and in no case may the examination be given for credit later than three weeks after entering the more advanced course.

Credit for Educational Experiences in the Armed Forces • Credit toward a degree may be granted to those students who submit to the Office of Admissions a certified copy of either D.D. Form 295 or D.D. Form 214, which indicates an honorable discharge and a period of continuous active duty for at least 90 days. Four semester hours in one of the University ROTC programs, or as physical education or elective credit, will be granted for basic training or its equivalent. Upon successful completion of 18 months with the Army National Guard/Active Army Reserve, an additional 6 hours will be awarded in the Army ROTC program. An additional 12 semester hours of credit in one of the ROTC programs may be granted to students who earned a commission while in service. Additional credit for training in formal service schools will be granted on the basis of recommendations published in A GUIDE TO THE EVALUATION OF EDUCATIONAL EXPERIENCES IN THE ARMED SERVICES or the recommendations of the Commission on Accreditation of Service Experiences to the extent that the recommended credit can be evaluated as equivalent to a specific University course. The maximum credit allowed from these sources is 40 semester hours.

Credit also may be granted for correspondence courses completed through a United States Armed Forces Institute program up to the maximum of 33 semester hours for credit from all correspondence courses. Credit is not granted for correspondence courses administered by the armed services.

TRANSFER CREDIT

Evaluation of Transfer Credits • When a transfer student enrolls at the University, all transfer course work is evaluated and accepted work is recorded, without changes in grades, as part of the student's permanent academic record.

The dean of the college or school to which the applicant is admitted determines which transfer credits will apply to the degree program. Students ordinarily receive no

transfer credit for courses designed specifically for technical and vocational career programs. The status of a student's transfer credits will be re-evaluated whenever the student changes his or her degree program.

A minimum GPA of 2.00 must be earned on all course work applied toward a bachelor's degree, including a student's accepted transfer and resident credits. To graduate, students also must have a minimum 2.00 GPA on all college course work attempted, as well as on all course work taken in residence at The University of Mississippi.

The limit on the acceptance of credit from a junior or community college is one-half the total requirements for graduation in a given curriculum.

Transfer of Nontraditional Credits • Transfer of credits earned in a nontraditional manner, such as credit by examination or for military experience, is determined on the same basis and by the same criteria as if the student had sought such credit originally at The University of Mississippi and without regard to the amount of credit awarded by the institution from which the student is transferring. In any case, The University of Mississippi does not transfer or award credit on the basis of ACT scores or the Achievement Tests of the College Board.

Courses Taken by a University of Mississippi Student at Another Institution • Once admitted to the University, a student must obtain written approval of his or her academic dean before taking courses at another institution with the intention of transferring credits toward a University of Mississippi degree.

A student will not receive credit for courses taken at another college or university while simultaneously attending The University of Mississippi unless prior approval is obtained from the student's academic dean.

INDEPENDENT STUDY AND OLE MISS ONLINE COURSES

Office of Independent Study and Ole Miss Online • Anne M. Klingen, director • Suite M, Third Floor, Martindale • (662) 915-7313 • indstudy@olemiss.edu • online@olemiss.edu

Independent study courses are those that are administered by the Department of Independent Study, that are asynchronous with the normal academic calendar, and that involve communication between the student and instructor by the mail (traditional correspondence course) or an electronic (Internet-based) mode. Students admitted to the University who wish to take a correspondence or an electronic independent study course must take it through the Department of Independent Study, if the desired course is available. Also, prior approval by the student's academic dean is required before he or she can take an independent study course.

Courses not available through the Department of Independent Study may be taken by correspondence or the Internet from another institution, but these courses will then be considered to be transfer courses. Additionally, prior written approval of the student's academic dean is required before a student can take an independent study (correspondence or Internet-based) course from another institution.

Independent study courses taken from The University of Mississippi are considered resident credit, for purposes of loan eligibility and for meeting other requirements involving academic residency. Ordinarily, independent study courses are not to be used to meet the requirement that a student must take 15 of his or her last 21 hours in residence. Exceptions to this require written approval by the student's academic department and dean prior to enrollment in the independent study course.

A maximum of 33 hours of independent study courses may be applied to a baccalaureate degree. Independent study (correspondence or Internet-based) courses may not be used to satisfy the University core course in mathematics.

When a University of Mississippi student enrolls in a course through the Department of Independent Study, a mid-course assignment will be indicated for the course. Once the mid-course assignment (or one-half of the assignments) for the course has been submitted, graded, and returned to the student, he or she will not be allowed to withdraw from the course and a grade (A, B, C, D, or F) must be assigned. That is, a student may not withdraw or simply drop the course after the mid-course point without receiving a grade. Generally a student has one calendar year to complete an independent study course and may purchase up to two three-month extensions of the deadline. Students who select to use independent study courses to qualify for federal aid must adhere to very specific enrollment and completion deadlines. They will have a much shorter time to complete their correspondence courses and may only purchase one two-month extension after the completion date. Contact the Office of Independent Study for more information concerning this option.

When the completion of the course is noted on the student's transcript, the grade will be included in his or her cumulative GPA, but the grade will not be calculated into the GPA of an individual academic semester. Grades earned through independent study will count as resident credit toward graduation honors designations. Each school or college may set other standards regarding whether independent study (correspondence or Internet-based) courses count toward degree requirements. These policies apply only to University of Mississippi enrolled students.

Ole Miss Online courses are those where 51 percent or more of the course (which includes lectures, discussions, and course work) is in an online or Web-based environment and are taught synchronously with the academic calendar. Students have the same responsibilities and rights in online courses as they do in traditional courses.

UNDERGRADUATE CREDIT FOR GRADUATE COURSES

Undergraduate students of junior or senior standing may enroll in 500-level courses for undergraduate credit. Students receiving undergraduate credit for a course will have lower requirements than students receiving graduate credit for the course.

GRADUATE CREDIT FOR SENIOR UNDERGRADUATES

Seniors within 15 semester hours of completing the requirements for the bachelor's degree may enroll for a maximum of 3 semester hours of graduate courses at the 500 level and seniors within 12 semester hours of the bachelor's degree may enroll for a maximum of 6 semester hours of graduate courses at the 500 level, on which graduate credit may be given towards a degree program in the Graduate School. The student must have a GPA of at least 3.00 on the last 60 hours of undergraduate work and be otherwise qualified for admission to the Graduate School. These courses must not be counted toward satisfying the requirements for the bachelor's degree. The department chairman concerned and the dean of the Graduate School must approve the courses for graduate credit before the undergraduate enrolls in them. In no case may more than 6 semester hours be earned by an undergraduate for graduate credit. Courses taken by undergraduates for graduate credit will be designated on the transcript with the suffix G. Under no circumstances may undergraduates enroll in courses at the 600 level or above.

ACADEMIC STANDING

There are four different categories of academic standing based on a student's academic performance: good standing, academic probation, academic suspension, or academic dismissal. Probation, suspension, and dismissal become effective at the end of the semester in which the student fails to attain the GPA specified in the rules following. Although the student will usually receive official notification of such action, notification is not a prerequisite to the student's being placed on probation, suspended, or dismissed. **It is the student's responsibility to ascertain his or her academic status prior to the beginning of each semester.**

Academic Probation • A student will be placed on academic probation when his or her cumulative GPA falls below an acceptable level as listed below. "Hours attempted" includes all previously earned credit hours (including hours transferred from other institutions; P and Z graded hours; and hours earned by examination or advanced placement) plus all attempted but unearned hours (including I, IP, L, and F graded courses).

Hours Attempted	Minimum GPA
1-30	1.60
31-60	1.80
61 or more	2.00

A student who is on academic probation will continue on probation until his or her cumulative GPA reaches that required for good standing according to the number of hours attempted, or until the student's GPA for any semester falls below 2.00 while he or she is on probation.

Academic Suspension • A student on academic probation who fails to earn a GPA of at least 2.00 in any term that he or she is on probation will be suspended. For this calculation, an I mark will be computed as an F. Readmission to the University will be denied for at least one regular semester (not including the summer term). The student will be eligible to return at the end of that semester. Both the suspension and the readmission will be recorded on the student's permanent record. No student shall be academically suspended unless he or she has been placed on probation for at least one semester.

Academic Dismissal • If a student is on probation as a result of having returned from an academic suspension or dismissal, and fails to meet the 2.00 GPA retention standard for any semester, then he or she will be academically dismissed for one calendar year. For this calculation, an I mark will be computed as an F. The student may appeal for readmission at the end of this year; readmission will be determined by the Faculty Committee on Readmission Appeals, and is automatic for students who have been dismissed only one time. No student shall be academically dismissed from the University unless he or she has first been previously academically suspended or dismissed.

Students who have been suspended or dismissed for longer than 48 months may wish to consider the Academic Restart option described in the Admission to the University chapter.

Readmitted Students • A student who returns after an academic suspension or dismissal will automatically be on academic probation. No work earned elsewhere during the suspension or dismissal will be used either in the calculation of the candidate's academic status, nor transferred as credit toward a degree. However, students may remove deficiencies by taking deferral courses (removing high school deficiencies) or developmental courses (such as Mathematics 100) elsewhere.

Part-time Students • Part-time students (those carrying fewer than 12 hours, graded and ungraded combined, per semester) on academic probation will stay on probation until the term in which they have attempted 12 or more hours since the last determination of status. At the end of that term, their status will be recalculated as if all the new work had been done in a single term, and a new status will be determined.

Repeated Probation • A student who has been moved from probation to good standing will be subject to new academic action in accordance with the preceding rules exactly as if the student had never been previously placed on probation, suspended, or dismissed.

DEGREE REQUIREMENTS

The following requirements are established by the University for all undergraduate degrees. The student also must complete additional requirements for each specific degree; these are established by each college and school within the University and are described elsewhere in this catalog.

University Core Curriculum • All baccalaureate degree programs offered by The University of Mississippi require the satisfactory completion of 6 hours of English composition, 3 hours of college algebra or quantitative reasoning or a more advanced mathematics course, 6 hours of laboratory science, and 15 hours of humanities, social/behavioral sciences, and fine arts (to include at least 3 hours of course work from each area). The mathematics core course may not be taken by correspondence. The curricula for the various degree programs in the college and schools include these core requirements.

Minimum Credit Hours • All baccalaureate degree programs require at least 126 semester hours with passing grades. Students who take more than the required number of hours will designate on a Degree Application Form which courses are to be applied towards the degree.

Minimum Grade Point Average • For the award of a bachelor's degree from any school or college of The University of Mississippi, a student must earn a GPA of at least 2.00 on all course work submitted in fulfillment of the course requirements for the degree. In addition, the student must earn a minimum GPA of 2.00 on all course work attempted at The University of Mississippi. Finally, the student must have a minimum 2.00 GPA on all college work attempted at any institution of higher learning.

There may be additional grade requirements for the College of Liberal Arts or the professional schools. It is the **student's responsibility** to check on the requirements applicable to the specific degree for which he or she is a candidate.

Academic Residency Requirements • All courses taken at The University of Mississippi Oxford campus, at any of the University's resident centers in Tupelo, Jackson, Southaven, or other locations in Mississippi, through the University's Department of Independent Study by a University of Mississippi student, or through approved study abroad and exchange programs where the student is registered in University of Mississippi courses, are considered to be courses taken in residence.

At least *25 percent of the semester credit hours* required for an undergraduate degree (e.g., 32 hours for a 126 hour degree) must be taken in residence. At least *30 semester hours* of credit must be taken in residence while enrolled in the school or college recommending the degree.

Last 21 Hour Residency Requirement. Students must acquire at least *15 of their last 21 credit hours* in residence at the University. That is, no more than 6 of the last 21 hours may be transfer credit. A student may not apply courses taken from the University's Independent Study department or via the University's study abroad or exchange programs towards this 15 hour requirement unless the student has obtained written approval from the student's academic department and dean before enrolling in the course.

Degree Application • Each senior must file a degree application, listing courses and credit hours to be applied towards the degree, with his or her academic dean. Deadlines for submitting this application are set by the college and schools.

Diploma Application • A candidate for graduation must submit an application for a diploma to the registrar on or before the deadline for the application for diploma, as stated in the Academic Calendar. Application is made for graduation at a specified time; if a student fails to graduate at that time, he or she must submit another application to be considered for graduation at a later date.

Commencement • Attendance at commencement exercises is required for those students who graduate at the end of spring or summer semesters. In case of hardship, a student may petition his or her academic dean to be excused. With the recommendation of the dean and the approval of the chancellor, the degree can be awarded in absentia. Students who graduate at mid-year are invited to participate in the spring commencement, but are not required to attend.

Second Bachelor's Degree • The University of Mississippi may confer a second bachelor's degree upon either its graduates or those of another institution when a student has completed the specific course requirements for the second degree as defined by The University of Mississippi. In addition to the credits used for the first degree, the candidate for the second bachelor's degree must complete at least 30 semester hours in residence from the school or college recommending the degree, with a minimum 2.00 GPA for those courses.

Curriculum Changes • Whenever possible, the University allows a student to obtain a degree by completing the curriculum course requirements in the catalog in effect at the time of the first, or any subsequent, registration at The University of Mississippi or at an accredited junior, community, or senior college, provided the work is completed within six years of the publication date of the catalog used. In the case of minor changes to a specified curriculum, a school or college may require substitute courses or activities to meet the spirit of the requirements. However, in the case of substantial changes to the curriculum, the University reserves the right to require currently enrolled students to follow a new curriculum.

HONORS

Honor Roll Requirements • Undergraduate students who earn a semester GPA of 3.50-3.74 will be listed on the Dean's Honor Roll; those who earn a semester GPA of 3.75-4.00 will be listed on the Chancellor's Honor Roll. To be eligible for honor roll designation, a student must have completed at least 12 ABCDF-graded hours for the semester and may not be on academic probation during the semester.

Graduation with Honors • For excellent scholarship, The University of Mississippi awards bachelor's degrees CUM LAUDE, MAGNA CUM LAUDE, and SUMMA CUM LAUDE.

General Requirements • To graduate with honors, a student must have the recommendation of the faculty, and must never have undergone disciplinary suspension, dismissal, or expulsion. Graduation honors are based on a student's cumulative GPA on all college work attempted. However, courses numbered below 100, grades which have been removed under the forgiveness policy, and grades earned before Academic Restart are not included in calculating the GPA for honors. At least 63 semester hours of work must be completed at The University of Mississippi. The required GPA must be attained on all work attempted in residence at The University of Mississippi separately considered, as well as on all college work attempted both at the University and at other institutions, including independent study (correspondence or Internet-based) courses taken, regardless of whether such work has been accepted for transfer credit at the University.

Cum Laude • To be eligible for a degree CUM LAUDE, a student must have a grade-point average of 3.50 or above but below 3.75 on all college work attempted.

Magna Cum Laude • To be eligible for a degree MAGNA CUM LAUDE, a student must have a grade-point average of 3.75 or above but below 3.90 on all college work attempted.

Summa Cum Laude • To be eligible for a degree SUMMA CUM LAUDE, a student must have a grade-point average of 3.90 or above on all college work attempted.

Other Academic Honors • For descriptions of academic honor societies, and awards for specific academic achievements, see the Academic Honors section of the Academic Program chapter.

ACADEMIC CONDUCT

Standards of Honesty • The University is conducted on a basis of common honesty. Dishonesty, cheating, or plagiarism, or knowingly furnishing false information to the University are regarded as particularly serious offenses. Disruptive behavior in an academic situation or purposely harming academic facilities also are grounds for academic discipline.

Disciplinary Procedures • In the College of Liberal Arts and in the Schools of Accountancy, Business Administration, and Education, faculty members handle cases of academic dishonesty in their classes by recommending an appropriate sanction after discussion with the student. Possible sanctions include: failure on the work in question, retake of an examination, extra work, grade reduction or failure in the course, disciplinary probation, or suspension or expulsion from the University. An appeals process is available to the student. A more complete statement concerning definitions, offenses, penalties, and grievance procedures may be found in the M Book under University Standards.

The Schools of Law, Pharmacy, and Engineering deal with disciplinary infractions through their student bodies, which maintain Honor Code systems.

The College of Liberal Arts

Glenn W. Hopkins, dean

Janice Murray, associate dean

Ronald F. Vernon, associate dean

Holly Reynolds, assistant dean

Ventress Hall • (662) 915-7177

GENERAL INFORMATION

Scope of the Program • Founded in 1848 with only four professors, the College of Liberal Arts is the oldest and largest division of the University. It offers a broad and comprehensive course of study including most areas of knowledge in the humanities, the fine arts, and the biological, physical, and social sciences. Students seeking a general education may acquire intellectual and civic competence; lay the broad foundation needed for specialized training in law, medicine, theology, and other professional fields; and prepare themselves for advanced study, research, and teaching in the humanities, fine arts, and sciences.

Degrees Offered • The college offers the **Bachelor of Arts** degree with a major in any of approximately 30 fields. Other courses of study lead to the **Bachelor of Fine Arts**, **Bachelor of Music**, or **Bachelor of Science** degrees.

Admission to the College • Students may designate the College of Liberal Arts upon admission to the University.

The Two Divisions of the College • The curricula for liberal arts degrees contain a sharp distinction between the courses for the freshman and sophomore years, the LOWER DIVISION, and the work of the junior and senior years, the UPPER DIVISION.

The college prescribes a program of study in the fundamental courses of the LOWER DIVISION, requiring coursework in the areas of arts, English, humanities, languages, mathematics, social sciences, and natural sciences, while permitting some liberty in the selection of courses within these areas. In the LOWER DIVISION, the student is introduced to the fundamentals of scholarship in the main branches of knowledge; is provided with an orientation to help identify a field of knowledge that attracts the student's intellectual, practical, and professional interests; and acquires a foundation to support scholarship in his or her chosen field.

The college offers the opportunity in the UPPER DIVISION for access to advanced instruction and specialized equipment for efficiency in professional, civil, economic, and social service; and for attainment of the groundwork of a culture that may enrich intellectual and spiritual character and provide the student with resources for living a full and useful life.

Academic Adviser • Each student who is admitted to the College of Liberal Arts is assigned an academic adviser through the office of the dean. A student who has declared a major will be assigned an adviser from that department. A student who has not declared a major will be assigned to an academic adviser in the Academic Support

Center (see section on Academic Support Center in this catalog). Students who transfer into the college from one of the other schools in the University should notify the dean of their need to be assigned an adviser. The adviser's primary role is to assist a student during registration periods in selecting courses appropriate for his or her degree program. In addition, the academic adviser is available throughout the student's entire course of study to discuss future plans or possible academic difficulties. Students are reminded that the faculty member's role is only to give advice. The ultimate responsibility for meeting all degree requirements is the student's.

ACADEMIC POLICIES

Course Load • The typical course load is 15 or 16 semester hours per semester. The minimum course load for a full-time student is 12 hours (except on the recommendation of the University physician); the maximum course load is 21 hours (exclusive of exercise and leisure activity courses, but including basic aerospace studies, military science, and naval science). Students are advised not to take more than 18 hours without a compelling reason and a GPA four-tenths of a point above 2.00 for each extra hour desired.

Required Courses • Every curriculum offered by the college has courses that all students enrolled in the curriculum must take. In some cases, the time at which the courses must be taken also is prescribed. The college requires a number of courses in the lower division to ensure a liberal education. In addition, departments require certain courses for major or minor programs. These required courses vary according to degree program and department, and are specified later in this chapter.

Students in the Sally McDonnell Barksdale Honors College may be able to use University Honors 101 or 102 to fulfill particular requirements for liberal arts degrees. The director of the Honors College, after consultation with the appropriate departmental chairs, will make recommendations in this regard to the dean, based on the sections of Honors 101 and 102 taken by each student.

Typical Lower-division Program • Liberal arts freshmen and sophomores are urged to follow the outline below in registering for courses each semester until the lower-division requirements have been met.

Courses	Semester hours
English	3
Foreign language	3
Physical or biological science	3-4
Social science or history	3
Mathematics	3

Advisers for some students, such as those in pre-medical, pre-dental, Bachelor of Fine Arts, and Bachelor of Science programs, may suggest that certain required lower-division courses be postponed.

Declaring a Major • A student may declare a major upon admission to the college. This declaration is not binding, but allows the college to assign the student an academic adviser in the student's field of interest. An undecided student will be assigned an adviser in the Academic Support Center. Undecided students should inform the dean's office upon choosing a major.

Change of Major • Students who change their major during the course of their studies must notify the dean's office so that a new adviser can be assigned. The college does not discourage changing the major, but the student should bear in mind that changes may delay graduation. Changing one's major is not sufficient reason for allowing a student to withdraw from a course after the course withdrawal deadline.

ROTC Courses • While ROTC courses are not required, students may take ROTC courses as electives or may choose to take a minor in Aerospace Studies, Military Science, or Naval Science.

Exercise and Leisure Activity Courses • While exercise and leisure activity courses are not required, as many as 6 hours of these courses may be counted toward a liberal arts degree. Students may elect to take exercise and leisure activity courses either on a standard letter grade basis or a pass-fail basis.

Final Examinations • A final examination, to be given at the time shown in the published class schedule booklet, is required in each course in the College of Liberal Arts unless the appropriate chair and dean of the college have approved an exception.

Electives in the Professional Schools • A maximum of 30 hours of electives (or work applied toward a minor) may be taken in the Oxford-campus professional schools at The University of Mississippi and applied to a liberal arts degree. All of this work may be done in one school or may be divided among several of the schools.

DEGREE REQUIREMENTS

The requirements listed here are in addition to the University requirements for baccalaureate degrees, which are listed in the chapter on Academic Regulations.

Total Hours Required • At least 126 semester hours with passing grades must be completed for any liberal arts degree. Departmental requirements may exceed this number.

Advanced Work Requirement • At least one-third of the hours applied toward a degree must be at the 300, 400, or 500 level. For example, a student qualifying for a degree with 126 semester hours must show at least 42 hours of work at the 300 level or above.

Total Grade Points • A student must average at least 2.00 grade points for all ABCDF-graded credit hours submitted in fulfillment of degree requirements. Z- and P-graded credit hours are not included in this calculation. Thus, a student qualifying for a degree with 120 ABCDF-graded hours and 6 Z-graded hours would need 240 grade points to meet the requirement, whereas the same student would need 252 grade points if all 126 hours were ABCDF-graded.

Degree Application • Each senior must apply for a degree by returning a completed Degree Application Form to the dean's office **before the last day to add classes in the semester preceding the semester in which the student expects to graduate.** This deadline should allow the student time to make schedule changes in case one or more required courses have been inadvertently omitted from the student's course of study, and should guard against the disappointment of having graduation delayed. After obtaining the form from the dean's office, the student lists the courses he or she plans to submit for graduation, and then takes the form to his or her academic adviser and major department chair for certification that all degree requirements will have been met. (A double major requires the signatures of both department chairs.) The student then returns the form to the dean's office for final certification that the courses listed on the application qualify the student for graduation. (**The degree application should not be confused with the diploma application,** which is filed only after the degree application has been approved by the dean. The diploma application must be filed during the semester of anticipated graduation.)

English Proficiency Requirement • An acceptable standard of English must be maintained in all work in all classes during the junior and senior years. The Department of English will cooperate with the individual instructor in carrying out this requirement and will help students find tutors when necessary. **Exceptions:** The statement that a student is not a candidate for a degree does not exempt the student from the degree requirements specified above in the event the student becomes an applicant for a degree at a later time. In extraordinary cases, a student may petition for a waiver of a specific liberal arts degree requirement. Such petitions are acted upon by a petitions committee appointed by the dean, which acts in behalf of the faculty of the college.

Funded Faculty Positions

Kelly Gene Cook Chair (journalism)	Ottillie Schillig Chair (composition)
Margaret McLean Coulter Professorship (chemistry)	Southern Writer in Residence (English), (sponsored by John and Renee Grisham)
Hederman Lecturer (journalism)	William F. Winter Professorship (history)
Howry Chair in Faulkner Studies (English)	
Sally McDonnell Barksdale Chair of Ethnomusicology (music)	

BACCALAUREATE DEGREES IN LIBERAL ARTS

THE BACHELOR OF ARTS DEGREE (B.A.)

B.A. Required Curriculum • Listed in the table below are the lower-division courses that the college requires for all Bachelor of Arts degree programs. Details of the requirements are described following the table. The B.A. Required Curriculum includes all university core courses. CLEP and/or AP credit can be used toward fulfilling these requirements. Students are urged to follow the typical lower-division program (see the Academic Policies section of this chapter) until the B.A. Required Curriculum has been completed. Students should also note that some majors and minors require specific courses within the following categories.

B.A. Required Curriculum	Semester Hours
English	12
Foreign language	6 to 12
Science (from two different departments)	9 to 11
History	6
Mathematics	6
Social sciences	6
Additional humanities	3
Fine or performing arts	3

ENGLISH. The requirement consists of 6 hours of English composition and 6 hours from a menu of 200-level literary survey courses. The standard composition sequence consists of English 101 and either English 102 or LIBA 102.

MODERN LANGUAGES. The University offers courses in Mandarin Chinese, French, German, Italian, Japanese, Portuguese, Russian, and Spanish. Students must complete six hours at the 200 level or above in one foreign language to fulfill the foreign language requirement in Liberal Arts. Those who complete 100- and/or 200-level courses overseas may not take equivalent courses on campus.

Students may elect to continue the language begun in high school or may choose to begin another language. Those entering the University with fewer than two years of high school French or Spanish must enroll in French or Spanish 101. Students with two or more years of high school French or Spanish must enroll in French or Spanish 121. Students who wish to continue Latin or Greek from high school should consult with classics faculty for current placement information. The lower-division foreign language requirement may not be fulfilled with courses taken through Independent Study (except for Greek and Latin). Questions regarding placement in all other languages should be directed to the Department of Modern Languages.

Speakers of languages other than English who wish to enroll in classes in their native language must begin their language studies beyond the 300 level and must consult with the departmental adviser before enrolling in courses.

SCIENCE. Courses may be chosen from the departments of Physics and Astronomy, Biology, Chemistry and Biochemistry, or Geology and Geological Engineering. A full year of course work in one subject (6-8 hours) and 3 hours in a subject from another department are required. At least two of the courses taken must include laboratories. For some classes, the required laboratory will be an additional 1-hour course. For example, a student might take two 3-hour lecture courses in chemistry along with the two associated 1-hour laboratory courses, and one 3-hour course in biology without laboratory. As a second example, a student might take two 4-hour lecture/laboratory courses in geology, and one 3-hour course in astronomy. As a third example, a student might take two chemistry courses, one with lab and one without, and a geology course with lab. Note that a student taking the required 6 hours of one subject (astronomy, physics, or physical science) from the Department of Physics and Astronomy must take the remaining 3 hours from another department. Astronomy 101 and 102 do not include laboratory work; Astronomy 103 and 104 do include laboratory work and satisfy the requirements for lab-based science credits. A student may not receive credit for taking ASTR 101 or 102 with either ASTR 103 or 104.

HISTORY. The History Department strongly recommends that students satisfy the history requirement by taking History 101,102. These courses cover the entire development of Western civilization. Students who prefer to satisfy the requirement at the 300 level must wait until their sophomore year because freshmen are not allowed in those courses. The permission of the chair of the Department of History is required to use 400-level courses to meet the requirement.

MATHEMATICS. Courses that meet the mathematics requirement are Mathematics 115, 120, 121, 123, 125, 261, 262, and 267.

SOCIAL SCIENCES. Courses may be chosen from anthropology, economics, JOUR 101, political science, psychology, sociology, and Latin American studies.

ADDITIONAL HUMANITIES. The course may be chosen from African American Studies; classical civilization; Gender Studies 103, 201, 333, 311, 390; philosophy; religion; Southern Studies 101, 102.

FINE OR PERFORMING ARTS. The course may be chosen from art history, music, dance, and theatre arts. Studio and workshop courses cannot be used to satisfy this requirement. Acceptable freshman or sophomore-level courses are: Art History 281, 283, 284, 286; Music 102, 103, 104, 105; Dance 200; Theatre 201. Students who have completed 30 semester hours of undergraduate course work may fulfill the requirement with a 300- or 400-level art history course.

Major • Each student must complete a major course of study of at least 24 hours in one department. The requirements for each department are listed in the Departmental Major and Minor Requirements section of this chapter.

An overall grade point average of C (2.00) or higher is required in all work applied toward the major. Students must earn at least 12 hours of their major courses in residence, and must achieve a 2.00 GPA or higher in all major courses taken in residence. A student may not count a cross-listed course toward both major and minor requirements. Double majors may not count a cross-listed course toward both majors.

Minor • A student must complete a minor course of study (or complete a second major) in a department different from the one in which the student takes his or her major.² Unless otherwise specified, a minor consists of 18 hours. Requirements for each department are listed in the Departmental Major and Minor Requirements section of this chapter. The purpose of the minor requirement is to afford the student diversity in learning and intellectual development through concentration in an area that is different from that of the major. An overall GPA of 2.00 or higher is required in all work applied toward the minor. Students must earn at least 6 hours of their minor courses in residence, and must achieve a 2.00 average or higher in all minor courses taken in residence. A cross-listed course may not be counted toward both major and minor requirements.

A minor may be taken in any liberal arts department. Minors also may be chosen in certain disciplines in the professional schools; these disciplines and the requirements in each are listed below. Students do not declare a minor until they complete their degree application (see Degree Requirements section of this chapter).

² Exceptions are the Department of Sociology and Anthropology, where a student may take the major in one field and the minor or second major in the other, and the B.A. in Southern Studies and the B.A. in International Studies, which do not require a minor.

A MINOR IN ACCOUNTANCY consists of Accountancy 201, 202, 303, 304, and 6 additional hours of accountancy courses.

A MINOR IN BUSINESS ADMINISTRATION consists of Accountancy 201, 202; Economics 202, 203; and 6 additional hours of junior-level business administration courses approved by the dean of the School of Business Administration.

A MINOR IN ENGINEERING consists of 18 hours of coursework in one of the following areas of emphasis: general engineering, chemical engineering, civil engineering, electrical engineering, geological engineering, or mechanical engineering. The courses are to be chosen with the advice and approval of a faculty adviser assigned by the dean of engineering. Students interested in the engineering minor should acquaint themselves with the mathematics, chemistry, and physics courses which are prerequisite to the engineering courses listed.

A MINOR IN PARK AND RECREATION MANAGEMENT consists of Park and Recreation Management 194, 200, 302, and 391; 9 hours from PRM 301, 332, 362, 371, 380, 425, 471, and 472. Senior-level students can also choose 510, 539, 569, 571, and 573. This minor will provide a knowledge base suitable for employment in municipal, state, federal, or commercial park and recreation management positions. It does not meet teacher certification requirements.

A MINOR IN TELECOMMUNICATIONS consists of the core courses Telecommunications 201, Management Information Systems 241, and Computer Science 361. In addition, at least two courses must be chosen from Electrical Engineering 335/336, 447; Computer Science 561; Telecommunications 210, 330, 405, 409; Journalism 571, 573; and Management Information Systems 307, 309. If a student has taken one of the courses listed above as part of the major, an additional elective from the preceding list can be used to complete the required 18 hours.

THE BACHELOR OF FINE ARTS (B.F.A.) DEGREE

See the Department of Art section in this chapter for curriculum tables showing a choice of emphasis in studio arts or art education for the Bachelor of Fine Arts in art degree.

See the Department of Theatre Arts section in this chapter for curriculum tables showing a choice of emphasis in performance or production for the Bachelor of Fine Arts in theatre arts degree.

THE BACHELOR OF MUSIC DEGREE

See the Department of Music section in this chapter for curriculum tables showing a choice of emphasis in music performance, music theory, or music education for the Bachelor of Music degree.

THE BACHELOR OF SCIENCE (B.S.) DEGREE

B.S. Degrees in the Natural Sciences • Bachelor of Science students with majors in **biology, chemistry, geology, mathematics, or physics** must follow the curriculum below. Details of the requirements are described below the table.

Courses	Semester Hours
English	12
Foreign language	6 to 12
Social science, in one subject	6
Social science, in a second subject	6
Fine or performing arts	3
Major	at least 42
Related subjects	18
Nonrelated subjects	9
Electives, to bring total degree hours to 126	

ENGLISH. The requirement is the same as that for the B.A. Required Curriculum; see B.A. Required Curriculum section in this chapter.

FOREIGN LANGUAGE. The requirement is the same as that for the B.A. Required Curriculum; see B.A. Required Curriculum section in this chapter.

SOCIAL SCIENCE. The two subjects may be chosen from anthropology or sociology, African American studies, classical civilization, economics, history, Latin American studies, philosophy or religion, political science, and psychology.

FINE OR PERFORMING ARTS. The requirement is the same as that for the B.A. Required Curriculum.

MAJOR. The requirements for each department are listed in the Departmental Major and Minor Requirements section of this chapter. A GPA of 2.00 or higher is required in all work applied toward the major. Students must earn at least 18 hours of their major courses in residence, and must achieve a 2.00 or higher GPA in all courses taken in residence and applied towards the major.

RELATED SUBJECTS. Acceptable related subjects for each major are given in the following table.

Major	Related Subjects
Biology	Anthropology, chemistry, geology, mathematics, physics, psychology (allowing psychology as either related or nonrelated)
Chemistry	Mathematics, physics
Forensic Chemistry	Biology, mathematics, physics (allowing biology as either related or nonrelated)
Geology	Biology, chemistry, computer science, mathematics, physics
Mathematics	Astronomy, biology, chemistry, computer science, economics, geology, physics
Physics	Mathematics

An overall GPA of 2.00 or higher is required in the 18 hours of related subjects. Transfer students must take at least 6 of these hours in residence.

Students should note that the university core curriculum requires **two laboratory science courses**. Students who do not fulfill this requirement with their Major and Related Subject courses will have to earn additional science credit.

NONRELATED SUBJECTS. These may be any courses other than the major or its related subjects. Students must earn at least 6 of the nonrelated subject hours in residence.

B.S. Degree in Biomedical Sciences • This degree may be awarded by The University of Mississippi as a student's initial baccalaureate degree following completion of three years of undergraduate studies in the College of Liberal Arts and one year of medical or dental school. During the undergraduate studies, the prescribed core curriculum for the Bachelor of Science degree must be fulfilled while incorporating prerequisites determined by the professional school.

B.S. Degree in Medical Technology • The Bachelor of Science degree with a major in Medical Technology is awarded following three years of undergraduate studies in the College of Liberal Arts and satisfactory completion of one clinical year in an affiliated hospital. See the Medical Technology curriculum in the Health Professions section of this chapter.

B.S. Degree in Forensic Chemistry • See the Forensic Chemistry section in this chapter for a curriculum table.

DEPARTMENTAL MAJOR AND MINOR REQUIREMENTS

AFRICAN AMERICAN STUDIES

Associate Professor Charles Ross, chair • 306 BARR HALL • (662) 915-5977

The African American Studies Program develops and coordinates an interdisciplinary program which focuses on the African American experience in the United States, especially in Mississippi and the South. Its objectives are to encourage students and faculty to examine the black experience, to facilitate a cultural and intellectual atmosphere on campus that will be favorable to such studies, and to undertake a program of research and service.

B.A. in African American Studies

The mission of African American Studies is to research and teach about the history and culture of African Americans as members of American society. Students who pursue the major in African American Studies will get a broad-based understanding of research in a variety of academic disciplines, with a particular focus on African and African American topics. Students will be provided with historical and contemporary data that will enable them to develop a comprehensive understanding of the life experiences of African Americans.

THE AFRICAN AMERICAN STUDIES INTERDISCIPLINARY MAJOR consists of 42 semester hours, including 9 hours of basic core courses, 30 hours of upper-division courses, and the 3 hour senior seminar course. At least 12 of the 30 credits of required upper-division work must be in the chosen area of specialization. In addition, 12 hours

must be chosen from one or both of the other two areas outside of the designated area of specialization. A minimum grade of C is required in all courses applied toward the African American Studies major. Although other requirements for the Bachelor of Arts degree must be met, the African American Studies major does not require a minor.

I. Basic Core (9 credit hours)

AAS 170/HIS 170	Introduction to African History
AAS 201	African American Experience I
AAS 202	African American Experience II

II. Upper-Division Courses (30 credit hours)

Areas of Specialization (12 credit hours minimum)

A. *African and African American History*

AAS 310	Experiences of Black Mississippians
AAS 325/HIS 307	African American History to 1865
AAS 326/HIS 308	African American History since 1865
AAS 362/GST 362	African American Women's History
AAS 392/HIS 387	History of Sub-Saharan Africa
AAS 438/HIS 327	Historical Perspectives on Slavery in the Americas
AAS 440/HIS 328	History of African Americans in Sports
AAS 443/HIS 329	The Civil Rights Era
HIS 460	Undergraduate Research Seminar in African History
AAS 498	African American Studies Directed Study
AAS 509/HIS 509	Historiography of African American History

B. *African and African American Political and Social Institutions*

AAS 302	Judicial System and the African American Experience
AAS 307/ANTH 307	Peoples of Africa
AAS 308/POL 307	Politics of Civil Liberties and Civil Rights
AAS 315/POL 323	Politics of Sub-Saharan Africa
AAS 320/POL 320	African American Politics
AAS 350/AAS 351	Topics in African American Studies
AAS 413/SOC 413	Race and Ethnicity
AAS 504	Research in African American Studies

C. *African and African American Culture*

AAS 329/ARHI 338	African and African American Arts
AAS 334/SST 334	Introduction to Field Work Techniques
AAS 337/ANTH 337	Anthropology of Blues Culture
AAS 341/ENGL 322	African American Literary Tradition I
AAS 342/ENGL 323	African American Literary Tradition II
AAS 360	Topics in African American Studies Abroad
AAS 371/ENGL 371	African Literature
AAS 373/ENGL 373	Caribbean Literature
AAS 395/ARHI 398	Survey of African American Art
AAS 420	Richard Wright and Toni Morrison
AAS 441/ENGL 441	Comparative Black Literatures
AAS 517/MUS 517	African American Musical Tradition
AAS 518/MUS 518	History of Jazz
AAS 593/ENGL 593	African American Literature

III. Senior Seminar (3 credit hours)

AAS 480	African American Studies Senior Seminar
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THE MINOR IN AFRICAN AMERICAN STUDIES consists of 18 semester hours, offered in conjunction with other departments. Students planning to pursue a career in teaching, social work, law, public service, race relations, or the helping professions will find the minor to be an asset. The program's two-course introductory sequence (African American Studies 201, 202) is required. Six additional hours must be chosen with the director's consent from the following: Southern Studies 101, 102 (Introduction), History 327 or 329 (Historical Perspectives on Slavery in the Americas or The Civil Rights Era), History 307, 308 or African American Studies 325, 326 (African American History to 1865/African American History Since 1865), and African American Studies 341, 342 or English 322, 323 (African American Literary Tradition I/II). An additional six hours of electives must be selected from appropriate courses in African American studies, anthropology, art and art history, English, history, music, political science, sociology, Southern studies, or related fields.

AIR FORCE ROTC/AEROSPACE STUDIES

Professor Kevin R. Petesch, Lieutenant Colonel, U.S. Air Force, chair • 310 BARNARD HALL • (662) 915-7357

GENERAL INFORMATION. The Department of Aerospace Studies, a unit of the Air Force Reserve Officers Training Corps, functions under the joint jurisdiction of the University and the Department of the Air Force. Its primary purpose is to select and prepare cadets who desire to serve in the United States Air Force as officers. For detailed information about the program, contact the Chair of Air Force Aerospace Studies, The University of Mississippi, University, Mississippi 38677.

GENERAL MILITARY COURSE (GMC). Freshmen and sophomores begin the four-year program by attending the General Military Course (GMC) for two years of basic instruction. Participation in the GMC does not incur any obligation to the Air Force.

PROFESSIONAL OFFICERS COURSE (POC). Juniors and seniors attend the Professional Officers Course (POC) for advanced course work. The GMC, or the training program described below, is prerequisite for the POC; the prerequisite can be waived for those with prior military service or junior ROTC training.

Advanced cadets in the POC must enlist in the Air Force Reserve. During the academic year they will receive subsistence pay ranging from \$250 to \$400 per month. The enlistment is ended when they complete the program and are commissioned, or for justifiable reasons cannot continue the program. Cadets must attend a four-week field training encampment, normally between their sophomore and junior years, for which they receive approximately \$400 plus reimbursement for travel expenses.

THE TWO-YEAR PROGRAM. A two-year advanced program is available to transfer students and others who did not take the GMC. Successful completion of a six-week training program is required, normally between the sophomore and junior years or the last two years of academic study. This training program takes the place of the GMC and is a prerequisite to the POC.

COMMISSION REQUIREMENTS. For a commission in the United States Air Force, the student must complete the academic and military requirements of the two- or four-year program, receive a baccalaureate degree, and successfully complete field training conducted on an Air Force base.

GENERAL ADMISSION REQUIREMENTS. For enrollment and continuance in the Air Force program, the student must be: accepted by the University as a regularly enrolled student; a citizen of the United States or one who has declared intentions of becoming a citizen within time limits; physically and mentally qualified; selected in competition with other college students; not less than 14 years of age nor too old to complete all requirements for appointment as a reserve officer of the Air Force prior to reaching age 29 years if programmed for flying training, age 30 years if programmed for other than flying training, or age 27 if selected for the financial assistance program. (Ages are waivable.)

FINANCIAL AID. Air Force financial assistance is offered through a scholarship program to selected students. The program provides tuition, books, laboratory fees, a tax-free allowance ranging from \$250 to \$400 per month, plus a supplemental scholarship provided by the University. Application should be made to the department chair.

UNIFORMS AND BOOKS. All cadets are issued Air Force uniforms and necessary Air Force ROTC books without charge.

ACADEMIC CREDIT. Air Force/Aerospace courses are acceptable as electives in most degree plans.

A **MINOR IN AIR FORCE/AEROSPACE STUDIES** may be used for any major and consists of a minimum of 16 semester hours, including completion of the POC.

ANTHROPOLOGY

See the Department of Sociology and Anthropology.

ARCHAEOLOGY

See the departments of Classics and Sociology and Anthropology.

ART

Professor Nancy L. Wicker, chair • 116 MEEK HALL • (662) 915-7193

GENERAL INFORMATION. The Department of Art awards B.A. (Bachelor of Arts) and B.F.A. (Bachelor of Fine Arts) degrees. The B.A. degree is offered for students who wish to major in art as part of a liberal arts education. The B.F.A. degree is offered to qualifying students who seek a more intensive studio art program as a professional degree or as preparation for graduate study. Entrance into the B.F.A. program is by application and review, typically taking place during the fourth semester of enrollment.

Concentrated studies may be done in ceramics, painting, printmaking, sculpture, graphic design, and computer graphics. Studio course numbers indicate the level of progress (100-basic; 200 and 300-intermediate; 400-advanced) and have no relationship to class years (freshman, sophomore, etc.). Not all courses are offered in each semester. They may be scheduled in cycles. In some cases, more than one course may be scheduled to a studio/lab space at the same time; independent studio time will be made available.

At least one-half of all studio hours counted toward any major in art must be earned in residence. Petitions for exceptions may be made by portfolio presentation. Students with a proficient portfolio who seek exemption from required classes should contact the chair who will arrange for a review and examination to be administered by the faculty.

All academic work undertaken by students in satisfaction of course assignments is regarded as an exercise in education, not as professional production. The department reserves the right to retain examples of student work for temporary exhibition and to use photographs of students and student work for educational purposes.

A MAJOR IN ART FOR THE B.A. DEGREE consists of 36 semester hours of studio art including ART 101, 111, 202, 211, 300, 321, 331, 340, and 371 or 372; and 9 hours of art history including Art History 283 and 284.

A MAJOR IN ART HISTORY FOR THE B.A. DEGREE requires the completion of 36 semester hours of art history (including ARHI 283, 284, 394, 495, 496, 499, 3 hours of non-Western art, 3 hours of ancient art, 3 hours of medieval art, 3 hours of Renaissance/Early Modern art, and 6 additional hours of art history at the 300 or 400 level); and 9 hours of studio art (ART 101, and one course each in two-dimensional and three-dimensional art).

A MINOR IN ART consists of 21 hours including ART 101, 111, 202, 321 or 371 or 372, 300 or 340; and Art History 283 or 284.

A MINOR IN ART HISTORY requires the completion of ART 101 and 18 hours of art history including Art History 283 and 284.

THE BACHELOR OF FINE ARTS (B.F.A.) DEGREE

THE B.F.A. IN ART is the professional undergraduate degree that allows for concentrated studies in studio arts.

All B.F.A. candidates must pass a B.F.A. interview after completion of no fewer than 18 semester hours of studio art. To gain entry to the B.F.A. program, transfer students must submit their work for review; however, some transfer credits may not be accepted toward the B.F.A. Beginning the semester after admittance to the B.F.A. program, all B.F.A. students are required to enroll in ART 350 every semester until enrolling in ART 491 (Thesis). Grades lower than C in Department of Art courses will not be counted toward this degree.

CURRICULUM FOR THE B.F.A. DEGREE IN ART-STUDIO ARTS

Courses	Semester Hours
English 101, 102	12
Natural science, chosen from biology, geology, and either astronomy, physics or physical science (both courses must include laboratories)	6-8
History	6
Social science, chosen from anthropology, economics, Latin American studies, political science, psychology, sociology	6
Mathematics (MATH 120 or higher)	3
Humanities, chosen from African American studies, Classical civilization, philosophy, religion, Gender Studies 103, 201, 311, 333, 390, Southern Studies 101, 102	6
Academic electives	6
Art history, including 283, 284, 496	15
Studio Core (101, 111, 202, 211, 300, 311, 312, 321, 322, 331, 332, 340, 341 or 342, 371 or 372)	45
Advanced studio (at least 12 credits must be in one studio area)	24
BFA Forum (350)	3-6
Thesis exhibit and senior seminar	4
Minimum total hours	133

ASTRONOMY

See the Department of Physics and Astronomy.

BIOLOGY

Professor Murray Nabors, chair • 214 SHOEMAKER HALL • (662) 915-7203

LABORATORY SCIENCE REQUIREMENT. Nonbiology majors wishing to satisfy the University's laboratory science requirements may take Biology 102-103 (Inquiry into Life: Human Biology) and Biology 104-105 (Inquiry into Life: The Environment). These liberal arts courses are designed to be relevant to the nonscience student. The two courses are not independent; Biology 102 is a prerequisite for Biology 104. Students not needing a laboratory may register for the lecture course (Biology 102 or 104) alone. Students also may satisfy their science requirements by taking the Biology 160-161,162-163 sequence that is designed for biology majors, pre-health students, and teacher education students. These courses also are appropriate for students who have not decided on a major but who may later become interested in medicine, teaching, or research in biology. Biology 210 will also meet part of the lab science requirement. Other biology courses above the 100 level also may be used to meet the science requirements, but permission of the instructor to enroll in such courses must be obtained if prerequisites have not been met. Students may not receive credit towards a degree for both 102 and 160 or both 104 and 162, or their respective laboratories.

PRE-MEDICAL AND PRE-DENTAL STUDENTS considering majoring in biology are urged to follow the recommended biology class sequence and to declare a major by the end of their sophomore year. Health pre-professional students will find a biology major particularly appropriate for their career goals.

SECONDARY EDUCATION STUDENTS. Students should consult the School of Education for information about secondary education certification of high school science teachers.

BASIC REQUIREMENTS. The B.A. and B.S. degree programs and a minor in biology require Biology 160, 161, 162 and 163 as initial courses. These courses provide the foundation for subsequent work and are prerequisites for admission into advanced major courses. Biology 102, 103, 104 and 105, intended for nonmajors, may not be used to satisfy departmental core requirements for biology majors and minors. Supplementary Honors sections Biology 164H and 165H are available. Students should take into consideration that 42 hours of course work at the 300 level or above are required for graduation. Students must achieve a grade of C or better for all course work counted for the major in biology. A C average is required for all courses counted for the minor in biology.

A MAJOR IN BIOLOGY FOR THE B.A. DEGREE consists of a minimum of 32 semester hours of biology credit including 24 at the 300 level or above. This is composed of introductory courses (BISC 160, 161, 162, 163), biology core requirements (BISC 330, 336, 322), biology electives (12 hours), and the major field achievement test (BISC 498) (0 hours). Seminars and non-majors courses do not satisfy the biology electives requirement. The math requirement (6 hours) may be met by MATH 121 and either MATH 115, 120, 123, or a calculus class. Alternatively, this requirement may be fulfilled by two classes chosen from MATH 125, 261-264. CHEM 105, 115, 106, and 116 are required. Chemistry is the recommended minor.

After the successful completion of Biology 160, 161, 162, 163 as initial courses, students may enroll in advanced biology courses that must include one course in each of the three B.A. biology core areas: ecology (Biology 322), genetics (Biology 336), and physiology (Biology 330, 516, or 545). Students should take Biology 330 and Biology 336 during their sophomore year and Biology 322 in their junior year. Biology 498 must be taken as a senior. Transfer students should take the sophomore courses in their first year of residence. See the sample program below for the appropriate sequence.

SAMPLE PROGRAM FOR THE B.A. DEGREE IN BIOLOGY
SEE THE "B.A. REQUIRED CURRICULUM" SECTION OF THIS CHAPTER FOR
EXPLANATIONS (*).

FRESHMAN YEAR		SOPHOMORE YEAR	
Courses	Semester Hours	Courses	Semester Hours
Biology 160, 161, 162, 163	8	Biology 330, 336	8
English* 101, 102	6	English* 221, 222, 223, 224, 225, or 226	6
Foreign language*	6	Foreign language*	6
Chemistry 105, 115, 106, 116	8	History*	6
Mathematics* 121, 123 or calculus	6	Minor (chemistry recommended)	6-8
	34		32-34
JUNIOR YEAR		SENIOR YEAR	
Courses	Semester Hours	Courses	Semester Hours
Biology 322	4	Biology electives	8
Biology elective	4	Biology 498	0
Social science*	6	Humanities*	3
Minor (chemistry recommended)	3-6	Fine arts*	3
Electives* (Physics 213, 233, 214, 224 recommended)	12	Minor (if not chemistry)	6
	29-32	Electives*	6-9
			26-29

A MAJOR IN BIOLOGY FOR THE B.S. DEGREE consists of a minimum of 42 semester hours of biology including 34 at the 300 level or above. This is composed of introductory courses (Biology 160, 161, 162, 163) (8 hours) + biology core courses (16 hours) + biology electives (18 hours minimum) + major field achievement test (Biology 498) (0 hours). Seminars and nonmajor courses do not satisfy the minimum or 300-level requirements. In addition, two courses in calculus, 8 hours of general chemistry, and two semesters of organic chemistry are required.

After the successful completion of Biology 160, 161, 162, 163 as initial courses, students may enroll in advanced biology courses that must include one course in each of the four B.S. biology core areas: ecology (Biology 322), genetics (Biology 336), physiology (Biology 330, 516, or 545), and cell and molecular biology (Biology 440). Students should take Biology 330 and Biology 336 during their sophomore year and Biology 322 and Biology 440 their junior year. Transfer students should take the sophomore course in their first year of residence. Biology 498 must be taken as a senior. See the sample program below for the appropriate sequence.

SAMPLE PROGRAM FOR THE B.S. DEGREE IN BIOLOGY
SEE THE "BACHELOR OF SCIENCE DEGREE" SECTION OF THIS CHAPTER FOR
EXPLANATIONS OF GENERAL B.S. COURSE (*) REQUIREMENTS

FRESHMAN YEAR		SOPHOMORE YEAR	
Courses	Semester Hours	Courses	Semester Hours
Biology 160, 161, 162, 163	8	Biology 336, 330	8
English* 101, 102	6	English* 221, 222, 223, 224, 225, or 226	6
Foreign language*	6	Foreign language*	6
Chemistry 105, 115, 106, 116	8	Chemistry 221, 225, 222, 226, (or 321, 322, 323, 324)	8
Mathematics* 261, 262	6	Electives*	6
	34		34
JUNIOR YEAR		SENIOR YEAR	
Courses	Semester Hours	Courses	Semester Hours
Biology 322, 440	8	Biology 498	0
Biology electives	9	Biology electives	9
Social science*	6	Social science*	6
Electives* (Physics 213, 223, 214, 224 recommended)	6-8	Electives*	9-12
	29-31		24-27

A MINOR IN BIOLOGY consists of a minimum of 18 hours of biology courses applicable for major-minor credit (see course descriptions) and must include 160, 161, 162, and 163. Biology 322, 330, and 336 are recommended. No more than two non-laboratory courses may be counted and at least 6 hours must be at the 300 level or above. Directed Study (Biology 491), seminars, and non-major courses do not satisfy minor requirements.

CHEMISTRY AND BIOCHEMISTRY

Professor Charles L. Hussey, chair • 322 COULTER HALL • (662) 915-7301

The Department of Chemistry and Biochemistry offers a B.S. major in chemistry for students who wish to pursue graduate training in chemistry or to undertake careers as professional chemists, a B.A. major in chemistry for students who wish a broad education in a scientific field in preparation for careers in teaching or other areas, and a B.A. major in biochemistry for students who wish to enter medicine or other health-related fields.

The department also offers a B.S. degree in forensic chemistry, designed to provide interdisciplinary training for the dual role of the forensic chemist as an investigator in the criminal justice system and as an expert witness.

GENERAL INFORMATION. Where the lecture and laboratory are given as separate courses, the laboratory cannot be taken without the lecture or departmental approval. Students are responsible for all laboratory equipment and will be assessed a fee for failing to check out of laboratory during the designated period at the end of the

semester. Only those chemistry courses from Mississippi community colleges cross-referenced to courses in this catalog may be used to satisfy the B.S. and B.A. degree requirements. Laboratory courses composed of online "virtual" laboratory exercises will not be accepted for credit. The Department of Chemistry and Biochemistry is accredited by the American Chemical Society.

The following courses may not be used for major or minor credit: Chemistry 101, 102, 103, 104, 113, 114, 121, 200, 201, 202, 371, 381, 382, or 383.

A MAJOR IN CHEMISTRY FOR THE B.S. DEGREE consists of the following 47 hours of chemistry courses: Chemistry 105, 106, 115, 116; 221, 222, 225, 226; 314; 331, 332, 337; 401, 402; 423, 469, 471, two semesters of 463, and an advanced course chosen from 473, 501, 512, 519, 527, 528, 529, 530, 531, 532, or 563. Mathematics 261, 262, 263, 264, and either 353 or 319 as well as Physics 211, 212, 221, 222 are also required. The B.S. degree is certified by the American Chemical Society.

CURRICULUM FOR THE B.S. DEGREE IN CHEMISTRY

FRESHMAN YEAR		SOPHOMORE YEAR	
Courses	Semester Hours	Courses	Semester Hours
Chemistry 105, 106, 115, 116	8	Chemistry 221, 222, 225, 226	8
English 101, 102	6	German (or French or Russian) 201, 202	6
German (or French or Russian) 101, 102	6	Physics 211, 212, 221, 222	8
Mathematics 261, 262	6	Mathematics 263, 264	6
Social sciences (in one area)	6	Chemistry 415 or Computer Science 251	3
	<u>32</u>		<u>31</u>
JUNIOR YEAR		SENIOR YEAR	
Courses	Semester Hours	Courses	Semester Hours
Chemistry 314, 423	6	Chemistry 463	4
Chemistry 331, 332, 337	7	Chemistry 401, 402, 469, 471	11
English (200 level)	6	Chemistry, one advanced course	3
Mathematics 319 or 353	3	Social sciences (in a second area)	6
Fine or performing arts	3	Electives	7
Electives	7		
	<u>32</u>		<u>31</u>
TOTAL HOURS		<u>126</u>	

A MAJOR IN CHEMISTRY FOR THE B.A. DEGREE consists of the following 28-30 hours of courses: Chemistry 105, 106, 115, 116; 221, 222, 225, 226; 314; 331; 401; and either 415, 423, 469, 471, or two semesters of 463. Mathematics 261, 262 and Physics 211, 212, 221, 222 or Physics 213, 214, 223, 224 are also required.

SAMPLE PROGRAM FOR THE B.A. DEGREE IN CHEMISTRY

FRESHMAN YEAR		SOPHOMORE YEAR	
Courses	Semester Hours	Courses	Semester Hours
Chemistry 105, 106, 115, 116	8	Chemistry 221, 222, 225, 226	8
English 101, 102	6	English (200 level)	6
Foreign language 101, 102	6	Foreign language 201, 202	6
History 101, 102	6	Physics 213, 214, 223, 224	8
Mathematics 261, 262	6	Social science	3
	32		31
JUNIOR YEAR		SENIOR YEAR	
Courses	Semester Hours	Courses	Semester Hours
Chemistry 331, 314	7	Chemistry 401	3
Fine or performing arts	3	Chemistry elective	2-4
Social science	3	Minor subject	9
Humanities	3	Electives	15-17
Minor subject	9		
Electives	7		
	32		31
TOTAL HOURS			126

For information about PROGRAMS LEADING TO THE B.A. DEGREE IN CHEMISTRY, WITH A MINOR IN BIOLOGY, MATHEMATICS OR PHYSICS appropriate for secondary education certification of high school science teachers, contact the Department of Chemistry and Biochemistry.

A MAJOR IN BIOCHEMISTRY FOR THE B.A. DEGREE consists of the following 31 hours of courses: Chemistry 105, 106, 115, 116; 221, 222, 225, 226; 331 or 334; 471, 472, 473, and 580. Mathematics 261, 262 and Physics 211, 212, 221, 222 or Physics 213, 214, 223, 224 are also required. A minor in biology is strongly suggested.

SAMPLE PROGRAM FOR THE B.A. DEGREE IN BIOCHEMISTRY
with a Minor in Biology

FRESHMAN YEAR		SOPHOMORE YEAR	
Courses	Semester Hours	Courses	Semester Hours
Chemistry 105, 106, 115, 116	8	Chemistry 221, 222, 225, 226	8
English 101, 102	6	English (200 level)	6
Biology 160, 161, 162, 163	8	Foreign language 101, 102	6
Mathematics 261, 262	6	Physics 213, 214, 223, 224	8
Elective	3	Elective	3
	31		31

JUNIOR YEAR		SENIOR YEAR	
Courses	Semester Hours	Courses	Semester Hours
Chemistry 471, 472, 473	8	Chemistry 331 or 334, 580	6
Foreign language 201, 202	6	Biology 333	4
Biology 330, 336	8	Social science	6
History 101, 102 (or 105, 106)	6	Fine or performing arts	3
Electives	4	Humanities	3
	<u>32</u>	Electives	<u>10</u>
			<u>32</u>
TOTAL HOURS		126	

A MAJOR IN FORENSIC CHEMISTRY FOR THE B.S. DEGREE consists of the 51 hours of chemistry courses shown in the curriculum table below. Students must earn 36 hours in residence, including Chemistry 314, 459, 463, 469, and 512. Mathematics 261, 262 and Physics 211, 212, 221, 222 or Physics 213, 214, 223, 224 are also required.

CURRICULUM FOR THE B.S. DEGREE IN FORENSIC CHEMISTRY

FRESHMAN YEAR		SOPHOMORE YEAR	
Courses	Semester Hours	Courses	Semester Hours
Chemistry 105, 106, 115, 116	8	Chemistry 221, 222, 225, 226	8
Biology 160, 161, 162, 163	8	Biology 336	4
English 101, 102	6	Physics 213, 214, 223, 224	8
Foreign language 101, 102	6	English (200 level)	6
Mathematics 261, 262	6	Foreign language 201, 202	6
	<u>34</u>		<u>32</u>

JUNIOR YEAR		SENIOR YEAR	
Courses	Semester Hours	Courses	Semester Hours
Chemistry 314, 331, 423, 469	16	Chemistry 401, 415, 463, 471, 472, 473, 512	16
Biology 504 or 514	3	Pharmacology 381	3
Criminal Justice 374 or 372	3	Criminal Justice 476 or 371	3
Fine or Performing Arts	3	Art 390 (recommended elective)	3
History 101, 102 or Anthropology 303, 304	6	Elective	1
	<u>31</u>		<u>26</u>

SUMMER SESSION	
Courses	Semester Hours
Chemistry 459 (internship)	3

A MINOR IN CHEMISTRY consists of 18 hours including Chemistry 105, 106, 115, 116; 221, 222, 225, 226, and 3 hours at the 300 or higher level, excluding Chemistry 371.

CLASSICS

Associate Professor Aileen Ajootian, acting chair • 302 SALLY McDONNELL BARKSDALE HONORS COLLEGE • (662) 915-7020

A MAJOR IN CLASSICS WITH CLASSICAL CIVILIZATION EMPHASIS FOR THE B.A. DEGREE consists of 30 semester hours of Classics Department courses, including at least 15 hours of courses numbered 300 or higher. Courses in the Greek and Latin languages may be used to meet the 30-hour requirement up to a maximum of 15 hours in either language or a combination of the two languages.

A MAJOR IN CLASSICS WITH EITHER GREEK EMPHASIS OR LATIN EMPHASIS FOR THE B.A. DEGREE consists of 30 semester hours of Classics Department courses, including a minimum of 24 hours in the chosen language.

A MINOR IN CLASSICS WITH CLASSICAL CIVILIZATION EMPHASIS consists of 18 hours of Classics Department courses, including at least 9 hours at the 300 level or higher, and not more than 9 hours of Greek or Latin language courses or a combination of the two languages. Classics 201 may not be used to fulfill the requirements for a minor.

A MINOR IN CLASSICS WITH EITHER GREEK EMPHASIS OR LATIN EMPHASIS consists of 18 hours of Classics Department courses, including a minimum of 12 hours in the chosen language. Classics 201 may not be used to fulfill the requirements for a minor.

COMPUTER AND INFORMATION SCIENCE

Associate Professor H. Conrad Cunningham, chair • 201 WEIR HALL • (662) 915-7396

A MAJOR IN COMPUTER SCIENCE FOR THE B.A. DEGREE requires 33 semester hours, which shall include Computer Science 111, 112, 211, 223, 423, 450, 487 and 12 additional hours of computer science courses at the 300-level or above. Additional requirements are Mathematics 261, 262, 301, 302, and 319, and Electrical Engineering 335 and 336.

A MINOR IN COMPUTER SCIENCE consists of 18 hours of computer science courses and must include 111, 112, 211, and 223. The additional 6 hours of course work shall be taken from courses numbered 200 and above.

Students interested in the Bachelor of Science in Computer Science professional degree program should consult that section in the School of Engineering chapter of this catalog.

Students planning graduate study in computer science should include Computer Science 311 and 433 among their electives.

CYTOTECHNOLOGY

See Health Professions.

DENTAL HYGIENE

See Health Professions.

ECONOMICS

Associate Professor Mark V. Van Boening, interim chair • 374 HOLMAN HALL • (662) 915-6942

A MAJOR IN ECONOMICS FOR THE B.A. DEGREE consists of 30 semester hours, including Economics 202, 203, 230, 403, and 404.

Department advisers will assist students in selecting appropriate elective courses. Majors in economics who wish to pursue graduate work in economics or plan to seek work in the public sector should consult department faculty for program advice. In particular, students planning graduate work in economics should elect Mathematics 261 and 262.

A MINOR IN ECONOMICS consists of 18 hours, including Economics 202 and 203.

ENGLISH

Professor Joseph Urgo, chair • 128 BONDURANT • 915-7439

Six hours of English composition are prerequisites for all 200-level literature courses. Six hours of 200-level literature courses are prerequisites for all 300-level and above English courses.

A MAJOR IN ENGLISH FOR THE B.A. DEGREE consists of 42 semester hours, that is, 30 hours at the 300 level and above in addition to the 12 hours of 100 and 200 level courses required by the College of Liberal Arts. The following categories must be satisfied:

Semester hours	Category	Course
6	Composition	101-102
6	Literary survey	223 Survey of American Literature I 224 Survey of American Literature II 225 Survey of British Literature I 226 Survey of British Literature II 221 Survey of World Literature I 222 Survey of World Literature II
6	Junior seminar	390 Major Authors of American Literature 391 Major Authors of British Literature 392 Major Authors of World Literature 396 Drama 397 Poetry 398 Literary Criticism
3	Shakespeare	385 Shakespeare
9	English electives	Courses at the 300 level or above
12	Advanced English electives	Courses at the 400 or 500 level

One elective must be in literature before 1800, and one must be a genre course. A student may take up to 15 hours in writing (including freshman courses) that will count toward the major. In lieu of one or two courses during the senior year, a student may take Senior Thesis 499 for 3 or 6 credits with approval of the director of Undergraduate Studies.

A MINOR IN ENGLISH consists of 21 hours, including English 101 and 102, 6 hours in one of the approved options at the 200 level, and an additional 9 hours at the 300 level or above.

A MINOR IN RENAISSANCE AND EARLY MODERN STUDIES offers students the opportunity to do interdisciplinary work in the period from roughly 1350 to 1789. This minor consists of 18 semester hours at the 300 level or above, taken in at least three different academic departments. Twelve of these semester hours must be outside the student's major. Students must take the core course, ENGL 376/HIS 376/MLLL 376 Renaissance and Early Modern Studies. Students are encouraged to explore course offerings in art history, religion, philosophy, music, anthropology, classics, linguistics, modern languages, English, and history. A list of approved courses is available in the Department of English.

FRENCH

See the Department of Modern Languages.

GENDER STUDIES

Dr. Mary Carruth, director • SARAH ISOM CENTER FOR WOMEN • 203 Johnson Commons • (662) 915-5916

The Sarah Isom Center for Women coordinates courses about women and gender offered by various University departments and offers an interdisciplinary minor that introduces students to the broad spectrum of concerns related to women and gender. Part of the regular academic disciplines, these courses represent the beginning of a multidisciplinary program of study that will help students to appreciate the role of gender in shaping the environment in which both women and men operate on a daily basis. At present, the courses offered at the University that specifically concern gender issues are in the departments of Classics, English, Family and Consumer Sciences, History, Modern Languages, Philosophy and Religion, Psychology; Sociology and Anthropology, and Southern Studies.

A MINOR IN GENDER STUDIES requires the completion of 18 semester hours of course work. Students must contact the director to enroll in the minor. Students must take at least two of the following courses: Gender Studies 201, 301, 325, 333, 338, 390, 494. Other courses may apply if they are approved by the director or the Curriculum Committee of the Sarah Isom Center for Women.

GEOLOGY

Professor R.P. Major, chair • 118 CARRIER HALL • (662) 915-7498

A MAJOR IN GEOLOGY FOR THE B.S. DEGREE

Bachelor of Science in Geology: 128 hours total

	<u>Credit Hours</u>
English: ENGL 101, 102, AND TWO OF 221, 222, 223, 224, 225, OR 226	12
Foreign Language: minimum of 6 hours at 200 level	12
Typical sequence: 101, 102, 201, 202	
Social Sciences: 6 hours in 2 areas	12
Fine Art: Art, Music or Theater	3
Non-related subjects: SPCH 102 or 105	3
Electives	6
Related subjects: MATH 261, 262	6
CHEM 105, 106, 115, 116	8
PHYS 213, 214, 223, 224	8
CSCI 111	3
Classes in the Major: minimum of 48 total hours	
103 Earth Dynamics (5)	
221 Mineralogy (4)	
222 Elementary Petrology (4)	
303 Structural Geology (3)	
305 Geomorphology (3)	
314 Sedimentology & Stratigraphy (4)	
GE 234 Field Methods (1)	
GE 413 Geostatistics (3)	
GE 437 Field Camp (6)	

Electives:

One from the following group:

GE 503 Environmental Geochemistry (3)

GE 577 Geophysics (3)

One from the following group:

GEOL 505 Hydrogeology (4)

GEOL 550 Oceanography & Marine Geology (3)

One from the following group:

GEOL 309 Invertebrate Paleontology (4)

GEOL 420 Optical Mineralogy (3)

GEOL 500 GIS (3)

GE 513 Economic Geology (3)

Two additional GEOL/GE classes at the 400 level or above

48

Additional hours for minimum of 128 total

7

128

All seniors are required to take the ASBOG Fundamentals of Geology examination as administered by the Mississippi State Board of Registered Professional Geologists.

A MINOR IN GEOLOGY consists of 18 hours of geology courses, including 12 hours at the 200-level or above.

GERMAN

See the Department of Modern Languages for information on the major.

GERMAN STUDIES

Assistant Professor Eva-Maria Metcalf, adviser • 211-B BONDURANT • (662) 915-3171 • emetcalc@olemiss.edu

A MINOR IN GERMAN STUDIES requires completion of 18 semester hours of course work, to be selected from the courses listed below. Students who seek a minor in German studies are urged to participate in a study abroad program in Germany as part of their educational experience, and to study the German language to fulfill their foreign language requirement.

Students majoring in German, history, philosophy, or political science must take all of their courses for the minor from outside their major department. For example, a student who is majoring in German and seeks a minor in German studies must take all of his or her German studies courses from outside the Department of Modern Languages. However, students who major in one of these four areas may apply German studies courses from their major department toward the fulfillment of requirements for their major.

Students should be aware that not all courses listed here are offered every semester or every year, and that there may be additional courses available for the German studies minor, which are not listed here. Students should consult with the Office of the Dean of the College of Liberal Arts and the German studies adviser to plan their program of study.

Courses for a Minor in German Studies:

German 505	Twentieth-Century Literature
German 506	Twentieth-Century Literature
German 519	History of the Germanic Languages
German 551	German Literature in English Translation
German 553	German Civilization and Culture
History 361	History of the Holocaust
History 364	Germany in the Age of Unification (1815-1914)
History 365	Germany from World War I to the Present
History 379	European Society and Economy in the Age of Imperialism (1750-1914)
History 399	History of World War II
Political Science 322	The Politics of Western Europe
Political Science 385	German Politics Since 1945
Philosophy 302	History of Philosophy
Philosophy 318	Existentialism
Philosophy 503	Seminar (approval of the German studies adviser required)
Summer Study Abroad in Germany	

GREEK

See the Department of Classics.

HEALTH INFORMATION MANAGEMENT

See Health Professions.

HEALTH PROFESSIONS

Dr. James M. O'Neal, coordinator of health professions advising, Academic Support Center • 350 Martindale • (662) 915-5970

This category is used to group all majors leading to professions within health care fields with the exception of pharmacy. Two basic divisions exist:

- (a.) Baccalaureate degree programs: cytotechnology, dental hygiene, health information management, medical technology/clinical laboratory science, nursing, and occupational therapy.
- (b.) Graduate degree programs: dentistry, medicine, optometry, physical therapy, veterinary medicine, and occupational therapy.

Students interested in baccalaureate degrees in one of the health-related professions—cytotechnology, dental hygiene, health information management, medical technology/clinical laboratory science, nursing, and occupational therapy—should follow the curriculum outlined on the appropriate page of this catalog.

Admittance to the clinical phase of these programs is gained through successful, competitive application. Applicants should be aware that admissions committees at state-supported institutions give strong preference to in-state residents.

Prerequisite courses totaling 63-65 semester hours are required for admission into the clinical portions of these programs; the 3+1 Medical Technology Program requires 96 hours. Since the freshman and sophomore years are usually very concentrated, students are advised to consider summer school enrollment so as to ensure their achieving a competitive GPA. Students also should be aware that state-supported institutions give preference to legal in-state residents. The health professions adviser will assist students in planning academic schedules, in preparing for the application process, and in meeting application deadlines, and will provide materials and general guidance.

Cytotechnology

THE B.S. DEGREE WITH A MAJOR IN CYTOTECHNOLOGY is a two-phase program. The first phase requires the completion of 65 semester hours of academic credit in the College of Liberal Arts with a minimum 2.0 GPA. The second phase requires admittance by competitive application to a professional program such as that offered at The University of Mississippi Medical Center. In-state applicants are given preference.

CURRICULUM FOR THE B.S. DEGREE IN CYTOTECHNOLOGY, PHASE 1

FRESHMAN YEAR		SOPHOMORE YEAR	
Courses	Semester Hours	Courses	Semester Hours
English 101, 102	6	Biology 333	4
*Biology 160, 161; 162, 163	8	Biology 206, 207, or science	8
*Chemistry 105, 115; 106, 116	8	electives (Recommended: histology, genetics, physiology. Not accepted: botany.)	
Mathematics 121, plus elective	6	Chemistry 221, 225, 222, 226	8
Social science elective (psychology, sociology, anthropology, economics, political science, or geography)	3	Humanities (200 level English recommended)	6
		Fine arts	3
		Elective (sufficient to give 65 hours of transferable credit)	3 or 4

* 22 on math portion of ACT (or 510 on math portion of SAT) or B or better in College Algebra required.

Dental Hygiene

THE B.S. DEGREE WITH A MAJOR IN DENTAL HYGIENE is a two-phase program requiring the completion of 63 semester hours of academic credit in the College of Liberal Arts, with a minimum 2.0 GPA and a minimum C grade on each course submitted for transfer to a phase 2 clinical professional program.

CURRICULUM FOR THE B.S. DEGREE IN DENTAL HYGIENE, PHASE 1

FRESHMAN YEAR		SOPHOMORE YEAR	
Courses	Semester Hours	Courses	Semester Hours
English 101, 102	6	Biology 206, 207	8
Biology 102, 103	4	Biology 210	4
Chemistry 103, 113; and 121	8	Humanities (200 level English recommended)	6
Mathematics 121	3	Speech 102 or 105	3
Psychology 201	3	Computer Fundamentals	
Sociology 101	3	CSCI 191 or 192	3
Acct., Mgmt., Bus., or Econ.	3	Nutrition FCS 311	3
Fine arts	3	Psychology 301 or 311, or EDPY 301, 307, or 309	3

For more information, consult Dental Hygiene listing under SCHOOL OF HEALTH RELATED PROFESSIONS section of the MEDICAL CENTER chapter in this catalog, or consult the health professions adviser.

Health Information Management

THE B.S. DEGREE WITH A MAJOR IN HEALTH INFORMATION MANAGEMENT is a two-phase program. The first two years in the College of Liberal Arts complete the 65 semester hours of academic prerequisites. Admission to the two-year, upper-division program is competitive, and dependent on a GPA of 2.0 or above, a C grade minimum on each course submitted as a prerequisite, and successful committee interview.

CURRICULUM FOR THE B.S. DEGREE IN HEALTH INFORMATION MANAGEMENT, PHASE 1

FRESHMAN YEAR		SOPHOMORE YEAR	
Courses	Semester Hours	Courses	Semester Hours
English 101, 102	6	Biology 206, 207	8
Biology 102, 104	6	Business Communications BUS 271	3
Mathematics 121, plus 123 or advanced math elective	6	Humanities (200 level English recommended)	6
Psychology 201	3	Fine arts	3
Basic computer concepts		Accounting 201, 202/Statistics	6
& application CSCI 191 or 192	3	Speech 102 or 105	3
Elective	3	Electives	8

Recommended electives include other courses in accounting, computer and information science, psychology, economics, and business communication.

Medical Technology (3+1) or Clinical Laboratory Sciences (2+2)

THE B.S. DEGREE WITH A MAJOR IN MEDICAL TECHNOLOGY or CLINICAL LABORATORY SCIENCE is a two-phase program, which prepares graduates for national credentialing examinations. Students may choose either the 3+1 or 2+2 program. The 3+1 program prescribes three years of study in the College of Liberal Arts and satisfactory completion of one clinical year in a hospital affiliated with The University of Mississippi and approved by the Committee on Allied Health Education and Accreditation of the American Medical Association. In the 3+1 program, at least 32 hours must be earned in residence. The 2+2 program links a two-year, 65 semester hour academic residence in the College of Liberal Arts with a two-year upper-division program such as the Clinical Laboratory Sciences program offered at The University of Mississippi Medical Center, which includes lectures, laboratories, and clinical rotations in selected hospitals. Curriculum details for both options are listed below. Further information is available under The School of Health Related Professions in the Medical Center chapter and from the health professions adviser.

2+2 CURRICULUM FOR THE B.S. DEGREE IN CLINICAL LABORATORY SCIENCE

FRESHMAN YEAR		SOPHOMORE YEAR	
Courses	Semester Hours	Courses	Semester Hours
English 101, 102	6	Biology 333 (Gen. Microbiology)	4
*Biology 160, 161; 162, 163	8	Chemistry 121	4
*Chemistry 105, 115; 106, 116	8	Humanities (200 level English recommended)	6
Mathematics 121, 123	6	Fine arts	3
Psychology 201	3	Social/behavioral science	3
Sociology 101	3	Electives	6
		Computer Science 191, 192	3
		Biology 206	4

* 22 on math portion of ACT (or 510 on math portion of SAT) or B or better in College Algebra required.

3+1 CURRICULUM FOR THE B.S. DEGREE IN MEDICAL TECHNOLOGY

FRESHMAN YEAR		SOPHOMORE YEAR	
Courses	Semester Hours	Courses	Semester Hours
English 101, 102	6	English, 200 level	6
Fine arts	3	Foreign language 101, 102	6
*Biology 160, 161; 162, 163	8	Biology 206, 207 (recommended)	8
*Chemistry 105, 115; 106, 116	8	Chemistry 221-222 and 225-226	8
Mathematics 121, 123	6	Social science (in one subject, history recommended)	6

* 22 on math portion of ACT (or 510 on math portion of SAT) or B or better in College Algebra required.

JUNIOR YEAR		SENIOR YEAR
Courses	Semester Hours	
Biology 333; 414	7	Study in an affiliated, approved, hospital-based Department of Clinical Laboratory Science or Medical Technology.
Psychology 202 or Mathematics 115	3	
Social science (in a second subject)	6	For information on clinical schools, consult the Health Professions Advising Office.
Speech	3	
Electives	3	
Computer science 191 or 192	3	
Foreign language 201, 202	6	

Nursing

THE B.S. DEGREE WITH A MAJOR IN NURSING is a two-phase program. Students wishing to enroll in the School of Nursing at The University of Mississippi Medical Center as juniors should first complete at least 63 semester hours, earning a minimum GPA of 2.5, with a minimum grade of C in all prerequisite courses. A minimum composite score of 21 is required on the ACT. An early acceptance program is available for high school seniors who have a 3.5 high school GPA and an ACT composite score of 24. Please contact the School of Nursing at The University of Mississippi Medical Center for details.

CURRICULUM FOR THE B.S. DEGREE IN NURSING, PHASE 1

FRESHMAN YEAR		SOPHOMORE YEAR	
Courses	Semester Hours	Courses	Semester Hours
English 101, 102	6	Biology 206, 207, and 210	12
Biology 102, 103	4	FCS 311-Nutrition	3
*Chemistry 105-115-106-116	8	Psychology 301 or FCS 323	3
General Psychology 201	3	Humanities/fine arts	6
Sociology 101	3	Sociology 301-The Family or FCS 325	3
Mathematics 121	3	Psychosocial sciences	3
Fine arts	3	Computer science 191 or 192	3
Speech	3	Math 115	3

* 22 on math portion of ACT (or 510 on math portion of SAT) or B or better in College Algebra required.

The student contemplating entering a school of nursing other than The University of Mississippi Medical Center's program should consult with the Academic Support Center.

Occupational Therapy

THE B.S. DEGREE WITH A MAJOR IN OCCUPATIONAL THERAPY is a three-phase program consisting of a two-year, 64 semester hour academic program in the College of Liberal Arts followed by a two-year professional program at The University of Mississippi Medical Center or other such institution, followed by one additional year which earns the Master of Occupational Therapy (MOT) degree (the practicing degree). To be eligible to pursue upper-division study, a student must have at least a 2.0 GPA and a minimum grade of C on each course submitted as a prerequisite. In the

competitive admission process, applicants must provide evidence of 16 hours of clinical observation in at least two occupational therapy clinical settings. For further information, contact the Health Professions Advising Office or check the program reference under the School of Health Related Professions in the Medical Center chapter.

CURRICULUM FOR THE B.S. DEGREE IN OCCUPATIONAL THERAPY, PHASE 1

FRESHMAN YEAR		SOPHOMORE YEAR	
Courses	Semester Hours	Courses	Semester Hours
English 101, 102	6	Biology 331 or Biology 206, 207	4 or 8
*Biology 160, 161, 162, 163	8	Physics 213, 223	4
*Chemistry 105, 115	4	Sociology 301	3
Mathematics 121, 123	6	Humanities	6
Sociology 101	3	Speech 102 or 105	3
Fine arts	3	Electives	6
General psychology 201	3	Abnormal, Child, or Adolescent Psychology	3
		Human Growth or Developmental Psychology	3
		Intro to OT	1
		LIBA 101	1

* 22 on math portion of ACT (or 510 on math portion of SAT) or B or better in College Algebra required.

Pre-Physical Therapy

The University of Mississippi School of Health Related Professions, along with almost all other allied health programs across the country, now offers only a Doctor of Physical Therapy degree. Students interested in applying for admission must successfully complete a baccalaureate degree that includes the basic prerequisite courses. Competition is still very strong. Applicants should present a minimum 2.75 GPA with no grade below a C on required courses, and a score on the Graduate Record Exam. First Aid-CPR certification and computer proficiency are résumé prerequisites.

Forty observation hours in at least two clinical settings also are required. Students will want additional guidance by the Health Professions Adviser and may want to use the Credentials Service available in the Academic Support Center.

SUGGESTED CURRICULUM FOR PRE-PHYSICAL THERAPY
(Courses in bold constitute prerequisites at UMC.)

FRESHMAN YEAR		SOPHOMORE YEAR	
Courses	Semester Hours	Courses	Semester Hours
English 101, 102	6	Physics 213, 223; 214, 224	8
Mathematics 121, 123	6	English 200 level	6
*Biology 160, 161, 162, 163	8	Statistics (Math 115/PSY 202)	3
General Psychology	3	Abnormal Psychology (PSY 311)	3
Sociology 101	3	Physiology (BISC 330)	4
Speech 102/105	3	*Chemistry 105, 115; 106, 116	8
ES elective	2	LIBA 101	1

* 22 on math portion of ACT (or 510 on math portion of SAT) or B or better in College Algebra required.

JUNIOR YEAR		SENIOR YEAR	
Courses	Semester Hours	Courses	Semester Hours
Comparative Anatomy (BISC 331)	4	Advanced Science w/Lab	8
Foreign language	6	Foreign language	6
History	6	Major/ electives to complete	8-18
Major/minor	6/8		
Fine arts	3		
Humanities	3		
Elective (300 level)	3		

A minimum of 126 semester hours is needed for graduation.

If a student plans to apply to a physical therapy school in another state, he or she should consult that school's catalog for admission requirements.

Pre-medical and Pre-dental Curriculum

The Program • Most schools of dentistry, medicine, optometry, osteopathy, podiatry, and veterinary medicine require the applicant to complete the bachelor's degree prior to entering professional school. A small number of students following the curriculum below are successful in being admitted to the professional school after only three years of undergraduate studies. The Bachelor of Science in Biomedical Sciences may then be awarded as a student's initial baccalaureate degree upon the completion of one year of dental school or medical school, providing core degree requirements have been completed.

Students gain admission to in-state and out-of-state, public, and private professional schools by competitive application. Success usually depends on high GPAs, ranked examination scores, positive faculty appraisals, and personal interviews. Applicants also should be aware that professional programs at state-supported institutions give strong preference to in-state residents.

The Basic Curriculum • Most medical schools require a minimum of one year of biology, one year of mathematics, one year of physics, and two years of chemistry. Additional basic requirements, such as calculus, may be prescribed. The Health Professions Advising Office maintains catalogs for most U.S. medical and dental schools.

A student may enter the pre-professional programs in medicine and dentistry at the beginning of the freshman year. After experience in several subject areas, the student should choose a degree major while continuing to designate pre-medical or pre-dental. At the end of the sophomore year, the student should confer with an adviser to ensure selecting a course of study that meets both the entrance requirements of the preferred professional school and the departmental degree requirements for majors and minors.

The flexible curriculum specified below can lead to either a Bachelor of Science or Bachelor of Arts degree and is flexible. Depending on interests and academic preparation, students may adjust their course loads while adapting to the University environment and the rigors of a pre-professional curriculum. The flexibility extends to the choice of major. Whereas most students choose to major in one of the sciences, many successful pre-med and pre-dental applicants choose majors from other disciplines.

For dental school but not medical school, AP credit may usually be applied to fulfill nonscience and nonmath course requirements. Courses in physical training, military science, dogmatic religion and courses in the sciences designed for nonscience majors may not be counted as electives for the professional school. No professional school prerequisites may be satisfied through correspondence.

Admissions tests, such as the Medical College Admission Test or the Dental Admission Test, should be taken no later than the spring of the junior year, providing basic science prerequisites have been fulfilled.

Additional information concerning The Schools of Medicine and Dentistry at The University of Mississippi Medical Center is found in the Medical Center chapter.

SAMPLE PROGRAM FOR PRE-MEDICAL AND PRE-DENTAL STUDENTS
(Courses shown in capital letters constitute the prerequisite core.)

FRESHMAN YEAR		SOPHOMORE YEAR	
Courses	Semester Hours	Courses	Semester Hours
ENGLISH 101, 102	6	English, 200 level	6
*BIOLOGY 160, 161; 162, 163	8	Foreign language 201, 202	6
*CHEMISTRY 105, 115; 106, 116	8	CHEMISTRY 221, 225; 222, 226	8
Honors/foreign language/core	6	BIOLOGY 336, 330	8
MATHEMATICS (algebra, trigonometry, or calculus)	6	PHYSICS 213, 223; 214, 224	8

* 22 on math portion of ACT (or 510 on math portion of SAT) or B or better in College Algebra required.

JUNIOR YEAR		SENIOR YEAR	
Courses	Semester Hours	Courses	Semester Hours
English 321	3	Courses to complete the major, minor, and the bachelor's degree requirements	30-36
Chemistry 471, 473	6		
Psychology 319	3		
Philosophy 103	3		
Core electives	6-8		
Major electives	6-8		
Elective (optional)	3		

Pre-optometry

The recommended pre-optometry curriculum follows very closely the initial two years of the pre-med/pre-dental curriculum. Additionally, 6-9 hours of calculus, psychology, and statistics are usually required. The Health Professions Advising Office can assist students in selecting the appropriate course of study and in applying to the schools that interest them.

Pre-veterinary Medicine

Students interested in studying pre-veterinary medicine should consult with the Academic Support Center for the appropriate curriculum. The first two years of pre-medical and pre-dental courses are typically prescribed by schools of veterinary medicine. The student should consult closely with the Health Professions Advising Office for information on the veterinary schools of particular interest and their specific admission requirements. Courses in the undergraduate years should help prepare students for the Veterinary College Admissions Test.

HISTORY

Associate Professor Robert J. Haws, chair • 310 BISHOP HALL • (662) 915-7148

Undergraduate students of sophomore standing or above may enroll in 300-level courses without prerequisites. However, the department strongly recommends that students complete 6 hours of lower-division history courses before enrolling in a 300-level course.

A MAJOR IN HISTORY FOR THE B.A. DEGREE consists of a minimum of 33 semester hours and must show a reasonable balance between United States and non-United States courses. All history majors must take the European History survey (History 101 and 102); six hours of 400-level undergraduate seminars, one in United States history and one in non-United States history; and at least six hours of 300 or 400-level courses outside United States history and outside European history since 1648. The following courses meet this last requirement: History 344, 345, 346, 347, 348, 349, 350, 352, 353, 354, 355, 356, 369, 370, 373, 374, 375, 386, 387, 388, 390, 392, and 393, 394, 395, 396, 397, 398 or a 400-level undergraduate seminar, which meets this requirement.

A MINOR IN HISTORY consists of 18 hours of history courses.

A MINIMUM GRADE OF C is required in all HIS courses applied by a student toward either a major or minor in history.

HONORS COLLEGE

See Sally McDonnell Barksdale Honors College.

INTERNATIONAL STUDIES

Professor Michael F. Metcalf, executive director, Croft Institute for International Studies
 • 304 Croft Institute Building • (662) 915-1500 • croft@olemiss.edu • www.croft.olemiss.edu

The Croft Institute for International Studies at The University of Mississippi offers an interdisciplinary curriculum that systematically studies other peoples, their histories, cultures, politics, and economies. All students wishing to major in International Studies must apply to the Croft Institute (February 1 deadline for full consideration) for admission to the program. [See the Academic Program chapter for more information on the institute's activities.]

A MAJOR IN INTERNATIONAL STUDIES FOR THE B.A. DEGREE consists of 39 semester hours, including INST 101, three 3-hour core courses, 12 hours of additional coursework in one geographic region, 12 hours in a single specialization module, and INST 401. With the exception of certain students who have already studied for periods of a semester or more in their geographic region of concentration, all students must spend at least one semester in an approved study abroad program. Students also must demonstrate language competency by passing a proficiency exam selected and administered by the institute.

- A. Introductory course (3 credit hours)—1 course
 INST 101 Introduction to International Studies
- B. Core courses (9 credit hours)—3 courses
 INST 203 East Asia
 INST 205 Europe
 INST 207 Latin America
- C. Regional courses (12 hours)—4 additional approved courses in one geographic region
- D. Specialization courses (12 hours)—4 approved courses drawn from one of the following areas:
 - Ecology and environmental policy
 - Global economics and business
 - International governance
 - International peace and security
 - Political and economic transitions
 - Social and cultural identity
- E. Capstone Course (3 credit hours)—1 course
 INST 401 Research Colloquium

[All international studies majors are to fulfill their social sciences distribution requirements by taking ECON 202 and ECON 203.]

Although other requirements for the Bachelor of Arts degree must be met, the international studies major requires no minor.

A MINOR IN INTERNATIONAL STUDIES requires completion of 18 semester hours of coursework, including the requirements listed below. Students who seek a minor in international studies are strongly encouraged to participate in a study abroad program as a part of their educational experience. Students should be aware that not all courses listed here are offered every semester or every year, and that there may be additional courses available for the international studies minor, which are not listed here. Students should consult with the international studies adviser in the Croft Institute to plan their program of study.

CURRICULUM FOR A MINOR IN INTERNATIONAL STUDIES

- I. BASIC COURSE (3 hours)
Political Science 221 (Comparative Politics)
- II. BASIC COURSE (3 hours, select one)
Sociology 102; Geography 101; Religion 205; Political Science 231; Geology 102; History 310
- III. AREA STUDIES (6 hours from a concentration in one of the following global areas)
 - Africa
African American Studies/Anthropology 307; African American Studies 315/Political Science 323; African American Studies 329/Art History 338; African American Studies 392/History 387
 - Latin America
Anthropology/Spanish 315; Anthropology/Spanish 316; Anthropology/Spanish 351; History 388; History 390; History 393; International Studies 314; Political Science 321
 - Middle East
History 386; Political Science 333
 - East Asia
History 394; History 395; History 396; International Studies 310; Philosophy 309; Political Science 324; Political Science 325; Political Science 337
 - Europe
History 359; History 360; History 379; International Studies 312; Political Science 322
- IV. ADVANCED STUDIES (6 additional hours in upper-level—300 level or higher—international studies courses approved by the adviser). These include any course listed as central or strongly related to international studies on a list maintained by the international studies adviser.
- V. LANGUAGE COMPETENCY. Completion of the Liberal Arts College language requirement in a related foreign language is required. Lower-division language courses do not count toward the 18-hour minor.

JOURNALISM

Professor Samir Husni, interim chair • 331 FARLEY HALL • (662) 915-7146

The Department of Journalism is accredited by the Accrediting Council on Education in Journalism and Mass Communication. Degree candidates follow a sequence in news-editorial journalism or in broadcast journalism. News-editorial and broadcast

students may take an emphasis in public relations, and news-editorial students may have an emphasis in magazine service journalism.

A MAJOR IN JOURNALISM FOR THE B.A. DEGREE requires 36 semester hours, including a departmental core: 101, 102, 301, 371, 575. Journalism majors may petition the department chair to take a maximum of 39 semester hours. The news-editorial journalism sequence consists further of 271, 273, 375, 377, 379, and 472 or 475 or 477 or 577 (or 491—only for students taking the public relations emphasis). The broadcast journalism sequence consists of 272, 376, 378, and 480. All journalism majors must take POL 101 and three semester hours in a “method of inquiry” selected from MATH 115, PHIL 103, POL 251, PSY 202, or SOC 215, or three hours in a modern language at the 300 level (in which the primary language of instruction is not English).

The Department of Journalism maintains a very limited supply of news-gathering equipment (audio recorders, video cameras, still cameras) for students to borrow for course assignments. Equipment unavailability is not an acceptable excuse for missing a deadline. Accordingly, as students advance in the program, they should plan to acquire the equipment they will need for each course. Consult the Journalism Department for specifications.

Students pursuing an emphasis in magazine service journalism must take 401 and 501 (553 is recommended). Students seeking a public relations emphasis are advised to take 391 and 491 (492 and 574 are recommended).

Students must take a minimum of 90 hours in courses outside the major, with no fewer than 65 hours in the liberal arts and sciences. Journalism majors are encouraged to have a second major or two minors.

A MINIMUM GRADE OF C is required in all JOUR courses for students pursuing a major or minor in journalism. A student may not enroll in a JOUR course until a minimum grade of C has been obtained in prerequisite courses.

A MINOR IN JOURNALISM consists of 21 credit hours in journalism, including the 15-credit core (i.e., JOUR 101, 102, 301, 371, 575). The minor further requires JOUR 271 or 272 and one of the following courses: JOUR 273, 376, 377, 379, 381, 390, 391, 400, 472, 475, 573, 574.

LATIN AMERICAN STUDIES

Associate Professor Edward B. Sisson, adviser • 114 LEAVELL HALL • (662) 915-7343

A MINOR IN LATIN AMERICAN STUDIES consists of 18 semester hours that must include Latin American Studies 315 and 316. Additional hours will be selected from the following list of electives: Anthropology 325, 327, 333, 527; Art History 333; Economics 510; Finance 468; History 388, 389, 390, 391; Management 595; Modern Languages, Literature and Linguistics 346, 352; Political Science 321; Portuguese 301, 302, 321, 331, 361, 398, 399; and Spanish 303, 304, 311, 322, 361, 398, 399, 571, 572, 579, 580, 587, 588, 589, 593, 599. No more than six hours from any one department may be used to fulfill the minor requirements. If the required course or courses from the list of electives for the Latin American studies minor are used to fulfill the requirements of a major, additional electives must be selected from the approved list so that a minimum of 18 hours, exclusive of major requirements, are devoted to fulfilling the requirements of the Latin American studies minor.

A CERTIFICATE IN LATIN AMERICAN STUDIES may be awarded to a candidate after the completion of the requirements for a minor in Latin American Studies with an overall grade-point average of 2.20 and demonstration of competency in Spanish or Portuguese. Details may be obtained from the director of the Latin American studies program.

LIBERAL ARTS

Dr. Holly Reynolds, adviser • 205 VENTRESS • (662) 915-1514

A BACHELOR OF ARTS IN LIBERAL ARTS consists of three minors. Two of the selected minors must be from departments and programs within the College of Liberal Arts. Students must complete at least 12 hours at the 300 level or higher in each of the selected minors and must achieve a grade of C or better in each class in the selected minors. Six hours in each minor must be completed in residence.

LINGUISTICS

Professor Donald L. Dyer, adviser • 210B BONDURANT EAST • (662) 915-7715

A MAJOR IN LINGUISTICS FOR THE B.A. DEGREE requires 30 semester hours. A core of four courses (Linguistics 313, 314, 315, 316) is required. In addition, 18 hours of other courses listed in the linguistics section of this catalog are required.

A MINOR IN LINGUISTICS consists of 18 hours from courses in the program, including Linguistics 313.

MATHEMATICS

Associate Professor Tristan Denley, chair • 305 HUME HALL • (662) 915-7071

MATHEMATICS COURSES ACCEPTABLE FOR SATISFYING LOWER-DIVISION REQUIREMENTS FOR LIBERAL ARTS DEGREES ARE 115, 120, 121, 123, 125, 261, 262, AND 267. MATHEMATICS 115, ELEMENTARY STATISTICS, HAS NO PREREQUISITE AND IS RECOMMENDED FOR ANY NONMATHEMATICS MAJOR.

No student may enroll in a mathematics course unless he or she has a grade of C or higher in all prerequisite courses. Grades lower than C in mathematics courses will not be counted toward the mathematics major for the B.A. or B.S. degree.

A MAJOR IN MATHEMATICS FOR THE B.A. DEGREE requires 30 semester hours as follows: Mathematics 261, 262, 263, 264, and 18 hours of upper-level courses that must include 305, 319, 555, and 556. A computer programming course also is required.

PROGRAMS LEADING TO THE B.A. DEGREE IN MATHEMATICS, WITH MINOR IN CHEMISTRY OR PHYSICS, appropriate for secondary education certification of high school science teachers (see School of Education chapter for details), are given in the curriculum tables below.

SUGGESTED CURRICULUM FOR THE B.A. DEGREE IN MATHEMATICS
with Minor in Chemistry
FOR SECONDARY SCHOOL TEACHERS

FRESHMAN YEAR

Fall Semester	Semester Hours	Spring Semester	Semester Hours
<u>Courses</u>		<u>Courses</u>	
Mathematics 261	3	Mathematics 262	3
English 101	3	English 102	3
Foreign language 101	3	Foreign language 102	3
Chemistry 105, 115	4	Chemistry 106, 116	4
History 101	3	History 102	3
	<hr style="width: 50%; margin: 0 auto;"/> 16		<hr style="width: 50%; margin: 0 auto;"/> 16

SOPHOMORE YEAR

Fall Semester	Semester Hours	Spring Semester	Semester Hours
<u>Courses</u>		<u>Courses</u>	
Mathematics 263	3	Mathematics 264	3
English 200	3	English 205, 206, or 210	3
Foreign language 201	3	Foreign language 202	3
Chemistry 221, 225	4	Chemistry 222, 226	4
Elective	3	Computer science	3
	<hr style="width: 50%; margin: 0 auto;"/> 16		<hr style="width: 50%; margin: 0 auto;"/> 16

JUNIOR YEAR

Fall Semester	Semester Hours	Spring Semester	Semester Hours
<u>Courses</u>		<u>Courses</u>	
Mathematics 305, 319	6	Mathematics 301, 431	6
Chemistry 301	3	Chemistry 334 or 314	3-4
Social science	3	Social science	3
Fine arts	3	Educational Psychology 307	3
	<hr style="width: 50%; margin: 0 auto;"/> 15		<hr style="width: 50%; margin: 0 auto;"/> 15-16

SENIOR YEAR

Fall Semester	Semester Hours	Spring Semester	Semester Hours
<u>Courses</u>		<u>Courses</u>	
Mathematics 475, 555	6	Mathematics 556	3
Science (not chemistry)	3	Humanities	3
Educational Psychology 307	3	Elementary Education 519	3
Elective	3	Electives (300 level or above)	6
	<hr style="width: 50%; margin: 0 auto;"/> 15	Elective	1
			<hr style="width: 50%; margin: 0 auto;"/> 16

SUGGESTED CURRICULUM FOR THE B.A. DEGREE IN MATHEMATICS
with Minor in Physics
FOR SECONDARY SCHOOL TEACHERS

FRESHMAN YEAR

Fall Semester	Semester Hours	Courses	Spring Semester	Semester Hours
Courses	Hours	Courses	Courses	Hours
Mathematics 261	3	Mathematics 262	Mathematics 262	3
English 101	3	English 102	English 102	3
Foreign language 101	3	Foreign language 102	Foreign language 102	3
History 101	3	History 102	History 102	3
Physics 101	1	Elective	Elective	3
	<u>13</u>			<u>15</u>

SOPHOMORE YEAR

Fall Semester	Semester Hours	Courses	Spring Semester	Semester Hours
Courses	Hours	Courses	Courses	Hours
Mathematics 263	3	Mathematics 264	Mathematics 264	3
English 200	3	English 205, 206, or 210	English 205, 206, or 210	3
Foreign language 201	3	Foreign language 202	Foreign language 202	3
Physics 107	3	Physics 108	Physics 108	3
Astronomy 103	3	Computer science	Computer science	3
	<u>15</u>			<u>15</u>

JUNIOR YEAR

Fall Semester	Semester Hours	Courses	Spring Semester	Semester Hours
Courses	Hours	Courses	Courses	Hours
Mathematics 305, 319	6	Mathematics 301, 431	Mathematics 301, 431	6
Physics 213, 223	4	Physics 214, 224	Physics 214, 224	4
Social science	3	Social science	Social science	3
Fine arts	3	Educational Psychology 307	Educational Psychology 307	3
	<u>16</u>			<u>16</u>

SENIOR YEAR

Fall Semester	Semester Hours	Courses	Spring Semester	Semester Hours
Courses	Hours	Courses	Courses	Hours
Mathematics 475, 555	6	Mathematics 556	Mathematics 556	3
Physics 315	3	Humanities	Humanities	3
Science (not physics)	3	Elementary Education 519	Elementary Education 519	3
Educational Psychology 307	3	Electives (300 level or above)	Electives (300 level or above)	9
Elective	2			
	<u>17</u>			<u>18</u>

A MAJOR IN MATHEMATICS FOR THE B.S. DEGREE consists of 12 semester hours in the calculus sequence and 30 hours of upper-level courses that must include Mathematics 305, 319, 555, and 556. Computer Science 111 also is required.

A MINOR IN MATHEMATICS consists of (1) Mathematics 261, 262, 263, 264 plus one 3-hour course at the 300-level or above; or (2) Mathematics 261, 262, 263, and 2 courses at the 300-level or above.

MEDICAL TECHNOLOGY

See Health Professions.

MILITARY SCIENCE AND LEADERSHIP

Professor Joseph W. Blackburn, lieutenant colonel, U.S. Army, chair • 102 BARNARD HALL • (662) 915-7085

The chief objective of the course of instruction is to produce second lieutenants who, by virtue of their education, training, and leadership qualities, are selected for continued service in the U.S. Army, Army Reserves, and National Guard.

PROGRAM. The four-year general military science program consists of the basic and the advanced courses, each consisting of two years of instruction. The basic course meets two hours weekly during the first year and three hours weekly the second year; the advanced course meets four hours weekly. Students are selected for the advanced course on a competitive basis.

TRANSFER STUDENTS. A two-year program is available to junior college students and others who did not take the first two years of the four-year program. The two-year program requires successful completion of a four-week summer camp or equivalent program that prepares a student for entry into the advanced course.

COMMISSION REQUIREMENTS. Graduates of the advanced course program will be commissioned as Army officers and will be selected to serve on active duty or in a Reserve or National Guard assignment. Guaranteed Reserve Force Duty contracts are available for selected students.

COMPENSATION. All necessary uniforms and equipment are provided by the Army. A subsistence allowance ranging from \$250 to \$400 per month is paid to scholarship and advanced course students for a period not to exceed 10 months per academic year.

SCHOLARSHIPS. Two-, three-, and four-year scholarships are available to selected students who are strongly motivated toward a career in the Army. Each scholarship covers tuition fees, books, and laboratory expenses, and, in addition, pays \$250 to \$400 per month for a period not to exceed 10 months per year for the duration of the award. Many scholarship winners are also eligible to receive incentive funds to cover dormitory and meal expenses.

All students enrolled in the program, including graduate students, may make application to the chair of the Department of Military Science for two- and three-year scholarships. High school seniors desiring to apply for the four-year scholarship should address their applications as follows: Army ROTC Scholarship Officer, University of Mississippi, P.O. Box 127, University, Mississippi 38677. Completed applications for four-year scholarships are due prior to November 1.

GENERAL REQUIREMENTS FOR ADMISSION. For enrollment in the BASIC MILITARY SCIENCE COURSE, the student must be (a) accepted by the University as a regularly enrolled student; (b) a citizen of the United States; (c) physically qualified; and (d) of good moral character. For enrollment in the FOUR-YEAR ADVANCED COURSE of the general military science program, students must: (a) be able to qualify for appointment as a commissioned officer prior to reaching 30 years of age; (b) demonstrate qualities and potential for becoming officers; (c) be physically qualified; (d) have completed the ROTC basic course or have received credit through honorable prior military service, successful completion of Junior ROTC or completion of the Army ROTC Leadership Training Course or equivalent; (e) have two years of academic work remaining for degree requirements in undergraduate or graduate school; and (f) agree in writing to complete the ROTC course of instruction and accept a commission in the Army if offered.

LABORATORIES. All military science courses require laboratories. The laboratory activities include weapons familiarization, water survival, paintball, rappelling, and survival techniques.

PROFESSIONAL MILITARY EDUCATION COURSES. Prior to graduation, completion of one professional military history course is required.

A MINOR IN MILITARY SCIENCE consists of a minimum of 16 hours and may be used for any major in the College of Liberal Arts. The following courses are required for students desiring a minor: MSL 301, 302, 401, and 402.

ACADEMIC CREDIT. Details about academic credit in other schools within the University may be obtained by writing or contacting the Chair of Military Science, Box 127, The University of Mississippi, University, Mississippi 38677.

MODERN LANGUAGES

Professor David S. Hargrove, acting chair • 115-C BONDURANT HALL • (662) 915-7298

A MAJOR IN FRENCH FOR THE B.A. DEGREE requires 30 semester hours beyond the 200-level credits, including French 303, 304, and 331, and at least 9 hours at the 500 level. Students must complete a minimum of 9 of the 30 upper-division credits in residence on The University of Mississippi campus at Oxford, Tupelo, or Southaven. A maximum of 15 of the 30 upper-division credits for the major may be taken through an approved study abroad program.

A MAJOR IN GERMAN FOR THE B.A. DEGREE requires 30 semester hours beyond the 200-level credits, including German 303, 304, and 331, and at least 9 hours at the 500 level. Students must complete a minimum of 9 of the 30 upper-division credits in residence on The University of Mississippi campus at Oxford, Tupelo, or Southaven. A maximum of 15 of the 30 upper-division credits for the major may be taken through an approved study abroad program.

A MAJOR IN SPANISH FOR THE B.A. DEGREE requires 30 semester hours beyond the 200-level credits, including Spanish 303, 304, and 331, and at least 9 hours at the 500 level. Students must complete a minimum of 9 of the 30 upper-division credits in residence on The University of Mississippi campus at Oxford, Tupelo, or Southaven. A maximum of 15 of the 30 upper-division credits for the major may be taken through an approved study abroad program.

A MINOR IN FRENCH requires the completion of 15 hours beyond the 200-level credits. A maximum of 9 credits for the minor may be taken through an approved study abroad program. French 303 and 304 are required for the minor.

A MINOR IN GERMAN requires the completion of 15 hours beyond the 200-level credits. A maximum of 9 credits for the minor may be taken through an approved study abroad program. German 303 and 304 are required for the minor.

A MINOR IN SPANISH requires the completion of 15 hours beyond the 200-level credits. A maximum of 9 credits for the minor may be taken through an approved study abroad program. Spanish 303 and 304 are required for the minor.

MINORS are also available in Chinese, Japanese, and Russian. A minor in any of these languages requires the completion of 15 hours, exclusive of 100-level courses. Minors in these languages will be offered only if the number of students wishing to enroll in the required courses is high enough to warrant the University offering the courses. Students seeking a minor in any of these languages must complete 301 and 302 in the target language.

MUSIC

Professor Steven Brown, chair • 164 SCRUGGS HALL • (662) 915-7268

The Department of Music offers the Bachelor of Music degree for students seeking a university education that includes preparation for careers in music teaching or performance. The Bachelor of Arts degree is offered for students who wish to major in music as part of a liberal arts education. Courses in music history, literature, and theory, performance opportunities of many kinds, and a minor in music are offered for the qualified student majoring in any other area of the University.

General information regarding all degrees in music:

Entrance Auditions: An entrance audition is required for admission into any degree program in the Department of Music. Contact the Department of Music Office for information concerning auditions.

Transfer students pursuing any degree in music: All transfer students must complete, at The University of Mississippi, a minimum of two semesters of applied study on a single major instrument at or above the 300 level. No more than four semesters of transfer credit in Student Recital will be accepted for completion of any music degree. No more than four semesters of a major ensemble will be accepted for completion of any music degree.

Transfer students majoring in performance may not enroll for applied study beyond the 341 level prior to approval of the applied faculty.

Keyboard Musicianship Proficiency Exams: Students whose degree programs require MUS 113, MUS 114, MUS 213, and/or MUS 214 may fulfill the degree requirement by either passing the courses or by taking a proficiency exam. ***Transfer students must take the appropriate proficiency exam to gain credit for prior course work and/or for placement in the appropriate class.*** Proficiency exams are offered by appointment only at the beginning of each semester, and must be completed by the last day to add or drop classes that semester. For further information contact Diane Wang, coordinator of Keyboard Musicianship Program.

THE BACHELOR OF ARTS DEGREE—THE MINOR IN MUSIC

CURRICULUM FOR THE MINOR IN MUSIC

Courses	Semester Hours
Music Theory Music 105, 106	6
Music History and Literature Music 101	3
Music Performance Music 100 Major instrument	4 8

THE BACHELOR OF ARTS DEGREE in MUSIC

A grade of C or higher is required on all music courses applied toward the degree. Care must be exercised in choosing elective courses to meet the upper-level course requirements for the degree. Students must earn at least 12 hours of their major courses in residence. Correspondence courses do not count as residence work.

CURRICULUM FOR THE BACHELOR OF ARTS DEGREE in MUSIC

Courses	Semester Hours
General Education	
English 101, 102; 6 hours at 200 level	12
Foreign language	6-12
Science (from two different departments)	9-11
History 101, 102 or 105, 106	6
Mathematics (chosen from 120, 121, 123, 125, 261, 262, and 267)	6
Social sciences	6
Additional humanities	3
Fine or performing arts	3
Music Performance	
Music 100	6
Major instrument	12
Ensembles	
Major ensemble (band, chorus, orchestra, 4 semesters)	8
Any ensemble (4 semesters)	4-8
Music Theory	
Music 105, 106; 205, 206; 305; 347	15
Music History and Literature	
Music 101, 301, 302	9
Music electives	
(approved by adviser, at least 8 hours in upper-division courses)	8
Minor Area Courses	
	18

THE BACHELOR OF MUSIC DEGREE

A MAJOR LEADING TO THE BACHELOR OF MUSIC DEGREE is available in the following emphases: MUSIC PERFORMANCE, MUSIC THEORY, and MUSIC EDUCATION.

A grade of C or higher is required on all music courses applied toward the degree. Students must earn at least 18 hours of music in residence.

CURRICULUM FOR THE BACHELOR OF MUSIC DEGREE WITH MUSIC PERFORMANCE EMPHASIS

PIANO

Courses	Semester Hours
General Education	
English 101, 102; 6 hours at 200 level	12
Foreign language	6-12
Natural science, chosen from biology, chemistry, geology, astronomy, physics, or physical science (courses must include laboratories)	6-8
History 101, 102 or 105, 106	6
Mathematics (chosen from 120, 121, 123, 125, 261, 262, and 267)	3
Music Performance	
Music 100	6
Major instrument, including PIAN 342 and 442	28
Music 315, 414	4
Music performance electives	4
Ensembles	
Major ensemble (band, chorus, orchestra)	8
Instrumental chamber ensemble	2
Any ensemble (4 semesters)	4-8
Music 308	2
Music Theory	
Music 105, 106, 205, 206, 305, 347, and 512 or 514	17
Music History and Literature	
Music 101, 301, 302, 312, and 6 hours of upper-division Music history/literature electives	18
Music Electives	
	3

INSTRUMENTAL (except keyboard)

Courses	Semester Hours
General Education	
English 101, 102; 6 hours at 200 level	12
Foreign language	6-12
Natural science, chosen from biology, chemistry, geology, astronomy, physics, or physical science (courses must include laboratories)	6-8
History 101, 102 or 105, 106	6
Mathematics (chosen from 120, 121, 123, 125, 261, 262, and 267)	3
Music Performance	
Music 100	6
Major instrument, including 342 and 442	28
Music 113, 114, 213, 214 (may be satisfied by proficiency)	8
Music 315, 385	4
Ensembles	
Major ensemble (band, chorus, orchestra)	8
Instrumental chamber ensemble	4
Any ensemble (4 semesters)	4-8
Music Theory	
Music 105, 106, 205, 206, 305, 347, 405, and 512 or 514	19
Music History and Literature	
Music 101, 301, 302 and 6 hours of upper-division music history/literature electives	15
Music Electives	
	6

VOCAL

Courses	Semester Hours
General Education	
English 101, 102; 6 hours at 200 level	12
Foreign language	6-12
Natural science, chosen from biology, chemistry, geology, astronomy, physics, or physical science (courses must include laboratories)	6-8
History 101, 102 or 105, 106	6
Mathematics (chosen from 120, 121, 123, 125, 261, 262, and 267)	3
Music Performance	
Music 100	6
Major instrument, including VOIC 342 and 442	28
Music 207, 208, 315, 381, 529	10
Music 113, 114, 213, 214 (may be satisfied by proficiency)	8

Ensembles

Opera Theatre or Production Workshop	8
Major ensemble (band, chorus, orchestra)	8
Any ensemble (4 semesters)	4-8

Music Theory

Music 105, 106, 205, 206, 305, 347. and 512 or 514	17
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Music History and Literature

Music 101, 301, 302, 303, 304, and 6 hours of upper-division music history/literature electives	19
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Music Education

Music 384	3
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BACHELOR OF MUSIC—MUSIC THEORY

Courses	Semester Hours
General Education	
English 101, 102; 6 hours at 200 level	12
Foreign language	6-12
Natural science, chosen from biology, chemistry, geology, astronomy, physics, or physical science (courses must include laboratories)	6-8
History 101, 102 or 105, 106	6
Mathematics (chosen from 120, 121, 123, 125, 261, 262, and 267)	3
Music Performance	
Music 100	6
Major instrument (must include a 322 course)	12
Music 113, 114, 213, 214 (may be satisfied by proficiency)	8
Music 198 (not required of vocal principals)	2
Ensembles	
Major ensemble (band, chorus, orchestra)	8
Any ensemble (2 semesters)	2
Music Theory and Composition	
Music 105, 106, 205, 206, 305, 306, 405	18
Music 514 or 512	2
Music 505 or 506	2
Music 507	2
Music 347	1
Music 309 and 310	4
Music History and Literature	
Music 101, 301, 302 and 2 hours of upper- division music history/literature electives	11
Thesis	
Music 497	3
Music Electives	
	9

CURRICULUM FOR THE BACHELOR OF MUSIC DEGREE WITH MUSIC EDUCATION EMPHASIS

The candidate for the degree of Bachelor of Music with an emphasis in music education may prepare for certification in the following fields: music-instrumental (band or orchestra; students may choose any woodwind, brass, string, or percussion instrument as principal instrument) or music education (general music or vocal/choral music; students may choose voice or keyboard as principal instrument).

INSTRUMENTAL PRINCIPAL

Courses	Semester Hours
General Education	
English 101, 102	6
English literature, 200-level courses	6
History 101, 102 or 105, 106	6
Mathematics (chosen from 120, 121, 123, 125, 261, 262, and 267)	3
Biological science with lab	3
Physical science with lab	3
Approved course in math or biological/physical science	3
Psychology 201	3
Humanities, chosen from African American Studies, Classical Civilization, Latin American Studies, Modern Languages, Philosophy, Religion, Southern Studies 101 or 102, Gender Studies 201	3
Music Performance	
Music 100	6
Principal Instrument (must include a 322 course)	12
Music 113, 114 (may be satisfied by proficiency)	4
Ensembles	
Major ensemble (band for woodwind or percussion principals, orchestra for string principals)	14
Music Theory	
Music 105, 106, 205, 206, 305, 347, 405	17
Music History and Literature	
Music 101, 301, 302	9
Music Education	
Music 198, 311, 315, 316	8
and for woodwind, brass, and percussion principals: Music 161, 172, 173, 174, 187, 189, 190, 325, or, for string principals: select from 172, 173, 174, 187, 189, 190;	4
select from VILN 100, VILA 100, VCEL 100, STBS 100	6
Music 376	1
Professional Education	
EDCI 351, 352	6
Music 422	3
EDLE 473	12

VOCAL PRINCIPAL

Courses	Semester Hours
General Education	
English 101, 102	6
English literature, 200-level courses	6
History 101, 102 or 105, 106	6
Mathematics (chosen from 120, 121, 123, 125, 261, 262, and 267)	3
Biological science with lab	4
Physical science with lab	3-4
Approved course in math or biological/physical science	3
Psychology 201	3
Humanities, chosen from African American Studies, Classical Civilization, Latin American Studies, Modern Languages, Philosophy, Religion, Southern Studies 101 or 102, Gender Studies 201	3
Music Performance	
Music 100	6
Voice (must include VOIC 322)	12
Music 113, 114, 213, 214 (may be satisfied by proficiency)	8
Music 207	2
Music 529	2
Ensembles	
Chorus	14
Music Theory	
Music 105, 106, 205, 206, 305, 347	15
Music History and Literature	
Music 101, 301, 302	9
Music Education	
Music 311, 315, 371, 381, 383, 384	16
Professional Education	
EDCI 351, 352	6
Music 422	3
EDLE 473	12

KEYBOARD PRINCIPAL

Courses	Semester Hours
General Education	
English 101, 102	6
English literature, 200-level courses	6
History 101, 102 or 105, 106	6
Mathematics (chosen from 120, 121, 123, 125, 261, 262, and 267)	3
Biological science with lab	4
Physical science with lab	3-4
Approved course in math or biological/physical science	3
Psychology 201	3
Humanities, chosen from African American Studies, Classical Civilization, Latin American Studies, Modern Languages, Philosophy, Religion, Southern Studies 101 or 102, Gender Studies 201	3
Music Performance	
Music 100	6
Principal Instrument (must include 322)	12
Voice	8
Music 214 (may be satisfied by proficiency)	2
Music 529	2
Ensembles	
Major ensemble (band, chorus or orchestra)	8
Any ensemble or Music 308 (3 semesters)	3-6
Music Theory	
Music 105, 106, 205, 206, 305, 347	15
Music History and Literature	
Music 101, 301, 302	9
Music Education	
Music 311, 315, 371, 381, 383, 384	16
Professional Education	
EDCI 351, 352	6
Music 422	3
EDLE 473	12

NAVAL SCIENCE

Professor Timothy A. Howington, Captain, U.S. Navy, chair • 213 BARNARD HALL • (662) 915-5831

GENERAL INFORMATION. The Department of Naval Science offers the Naval Reserve Officers Training Corps Program which is designed to assist in the education of well-qualified young men and women who are interested in earning a commission in the Navy, Marine Corps, or their reserve components. The NROTC Program is built on five elements: academic major of student's choice, Navy-specified course work

taught at the University, Navy or Marine Corps professional courses taught by the Naval Science Department, naval professional training, and summer training.

COMMISSIONS. NROTC students will be commissioned in the U.S. Naval Reserve or Marine Corps Reserve upon successful completion of the NROTC curriculum and after receipt of the baccalaureate degree, if they are qualified in all other respects and approved by the Chief of Naval Personnel or Commandant of the Marine Corps and the Secretary of the Navy.

SCHOLARSHIPS AND FINANCIAL AID. NROTC scholarship students are selected by nationwide competition conducted annually and by nomination of the professor of naval science. They receive Navy scholarships which consist of tuition, fees, books, and between \$200 and \$250 monthly subsistence allowances. All NROTC scholarship students living on campus receive a partial dormitory scholarship. NROTC students not on scholarship are selected by the professor of naval science from those students who apply during registration. They receive Navy subsistence allowances of between \$250 and \$350 each month during their junior and senior years. NROTC students are provided with uniforms and naval science textbooks. Scholarship students participate in three summer cruises, while all other NROTC students participate in one summer cruise.

ACADEMIC CREDIT. Naval science courses are accredited and may be used in the College of Liberal Arts as free electives in any program, and as a nonrelated subject for Bachelor of Science programs. Only NROTC students may take Naval Science Leadership Laboratories. Varying amounts of naval science courses may be applied to the degree programs of other schools of the University. For details concerning this or any other part of the NROTC Program, contact the chair of the Department of Naval Science, NROTC Unit, The University of Mississippi, P.O. Box 69, University, Mississippi 38677-0069.

A **MINOR IN NAVAL SCIENCE** consists of 18 hours minimum. The following courses are required for non-Navy and non-Marine Corps students desiring a minor: 111 or 112; 212; 213; 310 or 410; 311; 312; and 411. Only NROTC students may take the Naval Science Leadership Laboratories. NROTC students will take one Naval Science Leadership Laboratory each semester in addition to the following sample programs.

**SAMPLE PROGRAM FOR A MINOR IN NAVAL SCIENCE
FOR NAVY NROTC STUDENTS**

FRESHMAN YEAR		SOPHOMORE YEAR	
Courses	Semester Hours	Courses	Semester Hours
Naval Science 111, 112	4	Naval Science 211, 312	5
JUNIOR YEAR		SENIOR YEAR	
Courses	Semester Hours	Courses	Semester Hours
Naval Science 212, 213, 311	7	Naval Science 411, 412	5

SAMPLE PROGRAM FOR A MINOR IN NAVAL SCIENCE
FOR MARINE NROTC STUDENTS

FRESHMAN YEAR		SOPHOMORE YEAR	
Courses	Semester Hours	Courses	Semester Hours
Naval Science 111, 112	4	Naval Science 211	2
JUNIOR YEAR		SENIOR YEAR	
Courses	Semester Hours	Courses	Semester Hours
Naval Science 310 (or 410), 320	5	Naval Science 410 (or 310), 412	5

NURSING

See Health Professions.

OCCUPATIONAL THERAPY

See Health Professions.

PRE-OPTOMETRY

See Health Professions.

PHILOSOPHY AND RELIGION

Professor Michael L. Harrington, chair • 302 McDONNELL-BARKSDALE HONORS COLLEGE • (662) 915-7020

A MAJOR IN PHILOSOPHY FOR THE B.A. DEGREE is available in two emphases: PHILOSOPHY and PHILOSOPHY & RELIGION.

A grade of C or higher is required on all philosophy or religion courses applied toward the degree.

AN EMPHASIS IN PHILOSOPHY consists of 30 semester hours that must include Philosophy 101, 103, 301, 302, 321, 497, and any other 12 hours of philosophy courses. Religion courses that are not cross-listed with philosophy courses do not count toward a major with an emphasis in philosophy.

AN EMPHASIS IN PHILOSOPHY AND RELIGION consists of 30 semester hours that must include Philosophy 101, 103, 321, and 351; Religion 101, 309, 324, 497, and any other 6 hours in religion.

Students planning to major in philosophy with either emphasis should plan a program with the undergraduate adviser, especially if they are considering graduate work in either philosophy or religion, or work in a seminary.

A MINOR IN PHILOSOPHY consists of 18 hours of philosophy courses. Religion courses do not count toward a philosophy minor.

A MINOR IN RELIGION consists of 18 hours of religion courses. Philosophy courses do not count toward a religion minor.

PRE-PHYSICAL THERAPY

See Health Professions.

PHYSICS AND ASTRONOMY

Professor Thomas C. Marshall, chair • 108 LEWIS HALL • (662) 915-7046

A MAJOR IN PHYSICS FOR THE B.S. DEGREE is suggested for students wishing to do professional work in physics. B.S. majors in physics must have a working knowledge of differential equations. These students should finish calculus as soon as possible and Mathematics 353, 454 in the junior year. The B.S. degree consists of Physics 211, 212, 221, 222, 498, and 34 semester hours of upper-division physics courses that must include Physics 308, 309, 310, 317, 318, 319, 401, 402, and 451. One upper-division laboratory-based course is required in addition to Physics 319. A suggested curriculum for the B.S. degree follows.

SAMPLE FOUR-YEAR PROGRAM FOR THE B.S. DEGREE IN PHYSICS.
SEE "BACHELOR OF SCIENCE DEGREE" SECTION IN THIS CHAPTER FOR
EXPLANATIONS OF GENERAL B.S. COURSE REQUIREMENTS.

FRESHMAN YEAR

Fall Semester		Spring Semester	
Courses	Semester Hours	Courses	Semester Hours
Math 261	3	Math 262	3
Physics 211	3	Physics 212	3
Physics Lab 221	1	Physics Lab 222	1
English 101	3	English 102	3
Foreign language 101	3	Foreign language 102	3
Fine arts	3	[Computer Science 251] ¹	3
Total hours	16	Total hours	16

SOPHOMORE YEAR

Fall Semester		Spring Semester	
Courses	Semester Hours	Courses	Semester Hours
Foreign language 201	3	Foreign language 202	3
Physics 317	3	Physics 318	3
Physics 319	4	Social science I	3
Social science I	3	English 221, 222, 223, 224, 225, or 226	3
Math 263	3	Math 264	3
Total hours	16	Total hours	15

¹ Suggested electives [identified by brackets]

JUNIOR YEAR

Fall Semester		Spring Semester	
Courses	Semester Hours	Courses	Semester Hours
Math 353	3	Math 454	3
Physics 309 or 401 ²	3	Physics 310 or 4022	3
Social science II	3	Social science II	3
[Chemistry 105, 115] ¹	4	[Chemistry 106, 116] ¹	4
English 221, 222, 223, 224, 225, or 226	3	Physics 308	3
Total hours	16	Total hours	16

SENIOR YEAR

Fall Semester		Spring Semester	
Courses	Semester Hours	Courses	Semester Hours
[Math, Linear Algebra 319] ¹	3	[Math, Vector Analysis 318] ¹	3
Physics 321 or 417	4	Physics 413 or 422	3
Physics 309 or 4012	3	Physics 310 or 4022	3
		Physics 498	0
Physics 451	3	Elective	3
Elective	3	Elective	3
Total hours	16	Total hours	15

A MAJOR IN PHYSICS FOR THE B.A. DEGREE consists of 24 semester hours that must include either the Physics 211, 212, 221, 222 or the 213, 214, 223, 224 sequence, 6 hours of approved 300-level courses, 6 hours of approved 400-level courses, and Physics 498. Math 261, 262 are also required. Physics 303 is required for students following the Physics 213, 214 track.

A MAJOR IN PHYSICS FOR PRE-MEDICAL STUDENTS LEADING TO A B.A. DEGREE must include Physics 211, 212, 221, 222, 498 or 213, 214, 223, 224, 303, 498, and at least 13 additional hours chosen from the following: 315, 319, 321, 413, 415, 417, and 422. Math 261, 262 are also required. Physics courses at the appropriate level may be substituted at the discretion of the department. A suggested curriculum for the B.A. degree for pre-medical students follows.

² Since Phys 309, 310 alternates yearly with Phys 401, 402, junior B.S. majors must take whichever pair of these is offered in their junior year to be able to finish in four years.

SUGGESTED FOUR-YEAR PROGRAM FOR THE PRE-MEDICAL
B.A. DEGREE IN PHYSICS
SEE BACHELOR OF ARTS SECTION OF THIS CHAPTER FOR
EXPLANATIONS OF GENERAL B.A. COURSE REQUIREMENTS.

FRESHMAN YEAR

Fall Semester	Semester Hours	Spring Semester	Semester Hours
Courses	Hours	Courses	Hours
English 101	3	English 102	3
Biological Science 160, 161	4	Biological Science 162, 163	4
Chemistry 105, 115	4	Chemistry 106, 116	4
Math 261	3	Math 262	3
Foreign language	3	Foreign language	3
Total Hours	17	Total Hours	17

SOPHOMORE YEAR

Fall Semester	Semester Hours	Spring Semester	Semester Hours
Courses	Hours	Courses	Hours
Physics 213, 223	4	Physics 214, 224	4
Chemistry 221, 225	4	Chemistry 222, 226	4
English (200 level)	3	English (200 level)	3
Biological Science 336	4	Biological Science 330	4
Foreign language	3	Foreign language	3
Total Hours	18	Total Hours	18

JUNIOR YEAR

Fall Semester	Semester Hours	Spring Semester	Semester Hours
Courses	Hours	Courses	Hours
Physics 319	4	Physics 413	3
Physics 303	3	Psychology	3
History	3	History	3
Psychology	3	English 321	3
Fine arts	3	*Prepare for MCAT	0
Total Hours	16	Total Hours	12

SENIOR YEAR

Fall Semester	Semester Hours	Spring Semester	Semester Hours
Courses	Hours	Courses	Hours
Physics 315	3	Physics 415	3
Physics 321	4	Chemistry 473	3
Philosophy 328	3	Biological Science 332	4
Chemistry 471	3	Elective	3
Elective	3	Physics 498	0
Total Hours	16	Total Hours	13

A MINOR IN PHYSICS consists of 18 hours in physics, which must include the Physics 211, 212, 221, 222 sequence or the 213, 214, 223, 224 sequence, and at least 10 hours chosen from 303, 308, 309, 310, 315 or 317, 318, 319, 321, 401, 402, 415 or 417, 422, and 451. Physics courses at the appropriate level may be substituted at the discretion of the department.

A SPECIAL MINOR IN PHYSICS FOR PRE-MEDICAL STUDENTS consists of Physics 213, 214, 223, 224, 315, 413, and 415.

SPECIAL MINORS IN PHYSICS for students proposing to teach in high school are described under the Department of Chemistry and Biochemistry and the Department of Mathematics.

PROGRAMS LEADING TO THE B.A. DEGREE IN PHYSICS, WITH MINOR IN CHEMISTRY OR MATHEMATICS, appropriate for secondary education certification of high school science teachers are available. Contact the School of Education at (662) 915-7063.

POLITICAL SCIENCE

Professor Richard G. Forgette, chair • 116 DEUPREE HALL • (662) 915-7401

A MAJOR IN POLITICAL SCIENCE FOR THE B.A. DEGREE consists of at least 33 semester hours chosen from the subfields of American government and politics, comparative government and politics, international relations, and political analysis, including Political Science 101, 221, 231, and 251. At least 18 hours must be in non-Z-graded courses at the 300 level or above.

A MINOR IN POLITICAL SCIENCE consists of 18 hours from the above subfields, and must include Political Science 101. At least 9 hours must be at the 300-level or above.

PRE-DENTAL STUDIES

See Health Professions.

PRELAW

Dr. William Oliphant, adviser • 137 Lyceum • (662) 915-5974

Prelaw is not a major. Most law schools require a baccalaureate degree before admission, but they do not prescribe a specific field of study for that degree.

PRE-MEDICAL STUDIES

See Health Professions.

PRE-PHARMACY STUDIES

For information contact: Dr. Marvin Wilson, associate dean for academic and student affairs • 1023 Thad Cochran Research Center • (662) 915-7996

Students are assigned advisers alphabetically based on their last name.

For A-D, contact Dr. John Juergens • (662) 915-6957 • phjuerg@olemiss.edu

For E-H, U-We, contact Dr. David McCaffrey • (662) 915-5490 • davidjm@olemiss.edu

For I-L, Wi-Z, contact Dr. Rachel Robinson • (662) 915-5276 • rrobinso@olemiss.edu

For M-P, contact Dr. Michael Warren • (662) 915-1050 • mwarren@olemiss.edu

For Q-T, contact Dr. Bonnie Avery • (662) 915-5163 • bavery@olemiss.edu

Further information is given in the School of Pharmacy chapter, or you may contact the pre-pharmacy adviser.

PSYCHOLOGY

Professor Michael T. Allen, chair • 205 PEABODY BUILDING

A MAJOR IN PSYCHOLOGY FOR THE B.A. DEGREE consists of 30 semester hours, which must include Psychology 201 (General Psychology), 202 (Elementary Statistics), a laboratory course (211, 212, 213, or 214), and three of the following four courses: 309 (Learning), 319 (Brain Science and Behavior), 320 (Cognitive Psychology), and 321 (Social Psychology). Students who want to have the credentials needed for graduate work in psychology should consult with their advisers early in their college career to develop an appropriate course plan.

A MINOR IN PSYCHOLOGY consists of 18 hours of psychology course work.

RADIO AND TELEVISION

See the Department of Journalism.

ROTC PROGRAMS

See Air Force ROTC/Aerospace Studies, Military Science (Army), or Naval Science.

SALLY McDONNELL BARKSDALE HONORS COLLEGE

Associate Professor Douglass Sullivan-Gonzalez, dean • HONORS CENTER • (662) 915-7294 • honors@olemiss.edu

The mission of the Sally McDonnell Barksdale Honors College (SMBHC) is to offer a vibrant center of academic and scholarly excellence in a public university setting. Merging academics with public service, the curriculum is designed for the academically versatile student who enjoys intellectual rigor. Founded in 1997 as a gift from Jim and Sally Barksdale, the Honors College is designed for highly motivated students who thrive in small classes and seminars that emphasize reading, writing, and discussion. All students, both liberal arts and pre-professionals, take an intensive two-course sequence (Honors 101/102) in the social sciences and humanities that can count toward freshman composition hours. Students must achieve a 3.5 cumulative grade-point average in order to graduate from the SMBHC.

Students from all majors and schools who meet the admissions criteria of the college may participate in the program. Admission is based on a combination of considerations: grade-point average; SAT and/or ACT scores; writing ability; commitment to public service; and recommendations of teachers. Students must apply separately to the SMBHC in addition to applying to the University.

The Honors Center, a three-story facility remodeled in 1997, is located in the heart of the campus. SMBHC students have 24-hour access to the center, which houses multimedia classrooms, study rooms, a computer lab, kitchen, and a lounge.

The curriculum of the Honors College requires a minimum of 29 hours of honors credit. The following 9 hours are required: Honors 101 (3 hours); Honors 102 (3 hours); and Senior Thesis (at least 3 hours). It is expected that most students will earn 3-6 hours of honors credit for their exploratory research project. In addition, students must achieve computer literacy. The remaining hours are on a menu plan: Students choose honors sections of regular courses or enroll in upper-division colloquia that are designated as honors courses.

Students also must do one computer-based project in the sophomore year as well as in the junior year. Two other requirements during the senior year involve preparing a portfolio with an electronic medium and making a computer-based presentation to accompany the senior thesis.

Honors students are required to perform 10 hours of community action each semester. Freshmen may provide service to the Honors College and to the University. Sophomores, juniors, and seniors will provide service to the wider community. The college accepts a wide variety of experiences from churches, clubs, and campus organizations as fulfilling this requirement.

In the senior year, the honors curriculum requires an instructional or preceptor experience. Again, a broad range of experiences will be available, as, for example, leading a discussion group based on the honors thesis, or presenting a lecture on the topic.

Honors students are required to attend two Honors Forums each semester. This series will consist of various visiting lecturers or special events associated with honors classes.

Although not a requirement, the Honors College encourages studying abroad or other experiences. When students do study abroad in the junior year, they are excused from the community action component and the exploratory research project.

Honors 101 and 102 can be used to satisfy the six-hour English composition requirement. Alternatively, a student may apply the credits toward humanities or social science hours, especially if the student has AP English or other college composition credit. As humanities and social science credit, Honors 101 and 102 function differently in the different colleges and schools. In business, accountancy, and pharmacy, Honors 101-102 can satisfy 6 hours of humanities requirements. In engineering, Honors 101-102 can satisfy 3 hours of humanities and 3 hours of social science. In education and applied sciences, Honors 101-102 can satisfy 3 hours of humanities and 3 hours of electives. In liberal arts, Honors 101-102 can satisfy 3 hours of humanities and 3 hours of the required six hours of social science courses for the B.A. For the B.S. degree, students may use Honors 101 and 102 to satisfy 6 hours of the required 12 hours of social science.

Junior-Entry Program: The Sally McDonnell Barksdale Honors College invites students who did not enter the college as freshmen to join through the Junior-Entry Program. This program welcomes both transfer and current UM students. Through the Junior-Entry Program students will become involved in research in their majors, take Honors courses, and contribute to the larger society through community service. To be admitted into the Junior-Entry program a student must have a minimum 3.50 undergraduate GPA and permission of the student's major department. Junior-Entry students must complete the Exploratory Research Project and Senior Thesis requirements, take at least one other honors course, and complete the community action component for each semester they are a member of the Honors College. A student who fulfills the Junior-Entry Program will graduate as an Honors Scholar in his or her major.

SOCIOLOGY AND ANTHROPOLOGY

Professor David Swanson, chair • LEAVELL HALL • (662) 915-7421

A MAJOR IN ANTHROPOLOGY FOR THE B.A. DEGREE requires 24 semester hours, including Anthropology 303, 304, 305, and 409.

A MAJOR IN SOCIOLOGY FOR THE B.A. DEGREE requires 30 semester hours, including Sociology 101, 365, and 468, and two of the following three courses: Sociology 325, 413, and 427.

NOT MORE THAN 3 HOURS OF SOCIOLOGY 551 MAY BE USED FOR THE MAJOR IN SOCIOLOGY.

A MINOR MAY BE TAKEN IN SOCIOLOGY (18 hours) or ANTHROPOLOGY (18 hours). A sociology major may minor in anthropology, and vice versa.

SOUTHERN STUDIES

Professor Charles Reagan Wilson, director • CENTER FOR THE STUDY OF SOUTHERN CULTURE • BARNARD OBSERVATORY • (662) 915-5993; Associate Professor Kathryn McKee, undergraduate adviser

GENERAL INFORMATION. The Southern Studies Program offers an interdisciplinary curriculum surveying various aspects of Southern life. It incorporates several courses taught by 10 departments in the College of Liberal Arts and includes new courses developed through the cooperative efforts of humanities faculty with the support of a three-year grant from the National Endowment for the Humanities. The major objectives of the program are to provide students with (1) a broad understanding of the South, its heritage, its culture, its potential; (2) the training and experience necessary to conduct independent study; (3) opportunities for individualized learning experiences through research and field work; and (4) humanistic education that will be valuable in itself and as a basis for the practice of a variety of professions.

The Southern Studies Program is administered by the Center for the Study of Southern Culture, an academic unit of the University offering interdisciplinary teaching, research, and outreach programs focusing on the American South.

A MAJOR IN SOUTHERN STUDIES FOR THE B.A. DEGREE consists of HIS 331, 332; 24 hours from a minimum of four of the following departments: African American Studies, Art, Economics, English, History, Music, Philosophy and Religion, Political Science, Sociology and Anthropology, Southern Studies, and Theatre Arts; and SST 101, 102, 401, and 402 for a total of 42 hours. The following courses may be applied toward the major: African American Studies 201, 202, 306, 310, 325, 326, 329, 337, 420, 504, 593; Anthropology 309, 334, 337, 404; Art History 338, 348, 349, 350, 398; Economics 329, 422; English 306, 312, 368, 422, 466, 568, 569, 593; History 307, 308, 330, 331, 332, 333, 334, 335, 336, 337; Music 317, 318, 321; Political Science 317, 513; Religion 303, 503; Sociology 315, 334, 345, 351, 413; Southern Studies 301, 303, 406; Theatre Arts 521.

Two areas of concentration also are acceptable as Southern Studies majors: (1) A history concentration of Southern Studies 101, 102, 401, and 402; 21 hours chosen from the history courses listed above; and 9 additional hours selected from other courses listed above; (2) a 45-hour fine and performing arts concentration of Southern Studies 101, 102, 401, and 402, Theatre Arts 306 and 521, Art History 349, 350, and 338 or 348, Music 317, 318, and 321, and 9 additional hours selected from other

courses listed above. Although other requirements for the Bachelor of Arts degree must be met, the Southern Studies major requires no minor.

A MINOR IN SOUTHERN STUDIES consists of Southern Studies 101, 102, 401, and 402. Six additional hours must be selected from the courses listed above. Courses offered in the same department in which the student is taking a major may not be counted toward a Southern Studies minor. Exceptions may be allowed for sociology majors who wish to count Anthropology 309 or 404 toward the minor, for anthropology majors who wish to count Sociology 315, 345, 351, or 413 toward the minor, and for art majors who wish to count Art History 338, 348, 349, or 350 toward the minor.

SPANISH

See the Department of Modern Languages.

THEATRE ARTS

Professor Scott McCoy, chair • 110 ISOM HALL • (662) 915-5816

A MAJOR IN THEATRE ARTS FOR THE B.A. DEGREE requires 33 hours of theatre arts courses, including one of the following two sequences: THEA 110, 111, 168, 169 or THEA 272, 273, 274. Also required for the degree are THEA 271, 320, 321, 322, 326, 327, 481, 499, and any 3 hours of approved theatre electives. A grade of C or higher is required on all theatre courses applied toward the major.

A MAJOR IN THEATRE ARTS FOR THE B.F.A. DEGREE requires 129 semester hours. Students are required to choose one of three emphases: Acting, Musical Theatre, and Design/Theatre Technology. A grade of C or higher is required on all theatre courses applied toward the major. The following is required in all three emphases:

English 101, 102	6 hours
200-level English literature courses	6 hours
Social sciences	6 hours
History (HIS 101, 102 preferred)	6 hours
Natural science (with laboratories)	6-8 hours
Mathematics (from among college algebra, quantitative reasoning, or a more advanced mathematics course)	3 hours
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	33-35 hours

An emphasis in acting requires 68 hours of theatre arts and dance courses, comprising the following:

Acting, Movement, and Voice

THEA 110, 111 Freshman Performance Studies	4 hours
THEA 168 Fundamentals of Voice and Diction	2 hours
THEA 169 Voice and Movement	2 hours
THEA 210, 211 Sophomore Performance Studies	8 hours
THEA 310, 311 Junior Performance Studies	8 hours
THEA 330, 331 Stage Combat I, II	4 hours
THEA 410, 411 Senior Performance Studies	8 hours

Theory, History, and Literature

THEA 320 Theory and Practice of Drama	3 hours
THEA 321, 322 Theatre History I, II	6 hours
THEA 326, 327 Dramatic Literature I, II	6 hours

Other Theatre Requirements:

THEA 220 Business and Employment Practices in the Professional Theatre	3 hours
THEA 240 Makeup	3 hours
THEA 271 Stagecraft	3 hours
THEA 481 Directing	3 hours
THEA 499 Senior Review	1 hour
DANC	4 hours

In addition to the core curriculum and theatre arts requirements listed above, the B.F.A. with an acting emphasis requires elective hours (26-28) chosen from any area, including theatre arts, to bring the total number of credits to 129 semester hours.

An emphasis in musical theatre requires 74 hours of theatre arts and dance courses, comprising the following:

Acting, Movement, Voice, and Musical Performance

THEA 110, 111 Freshman Performance Studies	4 hours
THEA 163 Introduction to Musical Theatre Performance	2 hours
THEA 168 Fundamentals of Voice and Diction	2 hours
THEA 169 Voice and Movement	2 hours
THEA 210, 211 Sophomore Performance Studies	8 hours
THEA 301, 302 Scene Studies I, II (Note: Students qualifying for, electing, and completing the acting sequence 310, 311, 410, 411, may substitute THEA 310 for 301, 302)	4 hours
THEA 330 Stage Combat I	2 hours
THEA 465, 466 Musical Theatre Performance I, II	6 hours

Theory, History, and Literature

THEA 320 Theory and Practice of Drama	3 hours
THEA 321 Theatre History I	3 hours
THEA 326 Dramatic Literature I	3 hours
THEA 421, 422 Musical Theatre History and Literature I, II	6 hours

Other Theatre Requirements:

THEA 220 Business and Employment Practices in the Professional Theatre	3 hours
THEA 240 Makeup	3 hours
THEA 271 Stagecraft	3 hours
THEA 481 Directing	3 hours
THEA 499 Senior Review	1 hour
DANC (must include DANC 255, 355)	16 hours

In addition to the core curriculum and theatre arts requirements listed above, the B.F.A. with a musical theatre emphasis requires elective hours (20-22) chosen from any area, including theatre arts, to bring the total number of credits to 129 semester hours.

An emphasis in design/theatre technology requires 72 hours of theatre arts courses, comprising the following:

Design and Technology

THEA 171 Rendering for the Theatre	3 hours
THEA 192, 291, 292, 391, 392, 491, 492 Production Studies I-VII	20 hours
THEA 271 Stagecraft	3 hours
THEA 272 Introduction to Costumes for the Stage	3 hours
THEA 274 Theatre Design Graphics	3 hours
THEA 276 Fundamentals of Computer-aided Design for Theatre	3 hours
Approved electives in theatre design	12 hours

Theory, History, and Literature

THEA 320 Theory and Practice of Drama	3 hours
THEA 321, 322 Theatre History I, II	6 hours
THEA 326, 327 Dramatic Literature I, II	6 hours
THEA 374, 377 Introduction to the History of Dress and Décor I, II	6 hours

Other Theatre Requirements

THEA 481 Directing	3 hours
THEA 499 Senior Review	1 hour

In addition to the core curriculum and theatre arts requirements listed above, the B.F.A. with a design/technology emphasis requires 3 hours of art history and elective hours (19-21) chosen from any area, including theatre arts, to bring the total number of credits to 129 semester hours.

A MINOR IN THEATRE may be obtained by completing, with a grade of C or better, Theatre 321, 322, and any other 12 hours of theatre courses. Dance classes will not be counted toward a theatre minor without approval by the department chair.

THEOLOGY

A sound and broad preparation for entrance into a school of theology is offered by the college in courses leading to the degree of Bachelor of Arts. In addition to the foundation inherent in the general requirements for the degree, many courses of particular appropriateness are offered in the departments of Classics, History, Philosophy and Religion, and Sociology and Anthropology.

VETERINARY MEDICINE

See Health Professions.

The Patterson School of Accountancy

Morris H. Stocks, dean
200 Conner Hall
(662) 915-5756

Dale L. Flesher, associate dean
200 Conner Hall
(662) 915-7623

PROGRAM AND FACILITIES

Purpose • The primary function of the school is to provide professional education required to prepare students for careers as professional accountants in financial institutions, government, industry, nonprofit organizations, and public practice. Emphasis is placed upon both theoretical principles and concepts and practical applications to fulfill the need for reliable financial information. Professional courses offered at both the undergraduate and graduate levels provide students with the accounting education required to commence and continue to develop in a wide range of professional accounting careers.

Degrees Offered • The curriculum of the School of Accountancy consists of a two-year pre-accountancy program plus a three-year professional program. The Bachelor of Accountancy degree is awarded upon completion of requirements through the fourth year of the program. The professional degree of Master of Accountancy or Master of Taxation will be awarded at the successful completion of the fifth year. For information concerning graduate degrees in accountancy see the Graduate School catalog.

ADMISSION

Admission to the Pre-accountancy Program • Students wishing to enter the pre-accountancy program must meet all requirements for general admission to the University. International students must score at least 600 on the paper-based TOEFL or 250 on the computer-based TOEFL.

Admission to the Professional Program • In order to be considered for admission to the professional program, a student must successfully complete the pre-accountancy program or its equivalent and have a minimum grade-point average of 2.5 on 54 or more cumulative hours attempted. A student failing to meet this grade-point average requirement may appeal for an exception but should be able to cite strong evidence of his or her potential for successfully completing the program. Completion of the minimum requirements will not in itself, however, ensure admission to the professional program. Admission will be by acceptance of application. Before enrolling in Accountancy 401, 402, or 411, a student must have been admitted to the professional program.

SCHOLASTIC REQUIREMENTS

Progression Requirements • In order for a student who has been accepted into the professional program to progress from one year to the next professional year, the student must maintain a minimum grade-point average of 2.0 on the cumulative hours attempted at the University and a minimum grade-point average of 2.0 in 300-level or above accountancy courses, and comply with general University requirements. The 300-level or above required accountancy courses may be repeated only once.

Graduation Requirements • In order to qualify for the degree of Bachelor of Accountancy, a student must earn a minimum grade-point average of 2.0 on the cumulative hours attempted at the University and a minimum grade-point average of 2.0 on 300-level or above accountancy courses completed through the University, and comply with general University requirements for graduation. A student must complete in residence at least 30 semester hours of courses above the 300 level in business or accountancy.

Minor Requirement • The Bachelor of Accountancy degree requires a minor. The minor may be in any department at the University that formally grants a minor. A student must meet the minor requirements as set forth by the department granting the minor. A student may use any of the required courses of the Bachelor of Accountancy degree to meet the minor requirement (e.g., English 101 or 102 for a minor in English).

Credit from Other Sources • A student is to obtain written permission from the dean prior to completing academic credit at other institutions or by independent study. A limit of one course from Accountancy 401, 402, 405, and 407 may be approved.

Maximum Course Load • A student may not enroll in more than 18 academic semester hours unless that student has earned the privilege. To earn this privilege, a student must have 2/5 of a grade point higher than a C for each additional hour. This grade-point average is to be earned the semester preceding approval of an overload.

Mississippi Public Accountancy Law • The public accountancy law authorizes the State Board of Public Accountancy to award certificates to Certified Public Accountants upon qualification through passage of the CPA examination and appropriate professional experience. Candidates must have completed a minimum of 150 educational hours with a concentration in accounting to apply to sit for the examination.

Facilities • The School of Accountancy is housed in Conner Hall. Classrooms are designed to facilitate discussion and are equipped with adequate desk space and projection equipment. The University Library contains an extensive collection of books, periodicals, and related materials to supplement textbooks and to aid in research. The University houses the National Library of the Accountancy Profession, which is the largest and most prestigious accountancy library in the world. Two computer labs are available for the exclusive use of accountancy students.

Academic Honors • The following scholastic awards are offered to students in the School of Accountancy. For details, see the Academic Program chapter.

ACCOUNTANCY ALUMNI CHAPTER ACADEMIC ACHIEVEMENT AWARDS

BETA ALPHA PSI AWARD

DELTA SIGMA PI SCHOLARSHIP KEY

FEDERATION OF SCHOOLS OF ACCOUNTANCY OUTSTANDING STUDENT AWARD

INSTITUTE OF MANAGEMENT ACCOUNTANTS AWARD

MISSISSIPPI SOCIETY OF CERTIFIED PUBLIC ACCOUNTANTS OUTSTANDING SENIOR AWARD

CURRICULUM FOR PRE-ACCOUNTANCY

(The first two years are in pre-accountancy with admission to the professional program at the beginning of the third year.)

Courses should be taken in the sequence shown below. As an exception, the semester sequence may be altered for courses marked with an asterisk (*) and specified for the same year.

FRESHMAN YEAR

Courses	Semester Hours	
	1st	2nd
English 101, 102–English Composition ¹	3	3
Laboratory Science I, II ²	3-4	3-4
Humanities I, II ³	3	3
Math 267, 268 Calculus for Bus./Econ./Accy. ⁴	3	3
Fine arts elective ⁵	3	
MIS 241 Management Information Systems ⁶		3
Behavioral science ⁷		3
Total Semester Hours	15-16	18-19

¹ Honors College students may take HON 101 and 102 rather than English 101 and 102 in the freshman year.

² Choose from Astronomy, Biology, Chemistry, Geology, or Physics.

³ Choose from African American studies, classics, modern languages, history, honors, philosophy, religion, Southern studies, or gender studies.

⁴ Calculus 267 requires a 24 ACT score or equivalent. If this ACT score is not met, Math 121 (College Algebra) must be taken first. Calculus 261 and 262 may be substituted.

⁵ Choose from art, music, or theatre.

⁶ Computer proficiency requirement must be met as a prerequisite.

⁷ Choose from anthropology, geography, journalism, Latin American studies, political science, psychology, or sociology.

SOPHOMORE YEAR

Courses	Semester Hours	
	1st	2nd
ACCY 201, 202—Accounting Principles I, II	3	3
ECON 202*, 203*—Principles of Economics	3	3
Math 269*		3
Literature or foreign language ¹	3	3
BUS 250—Legal Environment of Business*		2
BUS 271 or SPCH 102/105*	3	
BUS 230*	3	
Minor requirement*		3
Total Semester Hours	15	17

¹For those choosing foreign language to meet this requirement, two semesters of the same foreign language must be taken.

CURRICULUM FOR THE PROFESSIONAL PROGRAM OF THE SCHOOL OF ACCOUNTANCY

JUNIOR YEAR

Courses	Semester Hours	
	1st	2nd
Accountancy 303, 304	3	3
MGMT 372*	3	
MKTG 351*	3	
FIN 331*	3	
BUS 302*	3	
ACCY 309*, 310*	3	3
MIS 309*		3
ENG 250*		3
Minor requirement*		3
Total Semester Hours	18	15

SENIOR YEAR

Courses	Semester Hours	
	1st	2nd
ACCY 401*, 402*	3	3
ACCY 405*, 407*	3	3
ACCY 411*	3	
MGMT 391	3	
MGMT 493 or ACCY 520 ¹		3
Minor requirement	3	3
Nonbusiness elective ²		3
Total Semester Hours	15	15

¹ ACCY 520 (Accounting Internship) may substitute for MGMT 493. A student may enroll in up to 6 hours of ACCY 520. However, only 3 hours would count towards degree requirements. Specifically, a student may apply 3 hours of ACCY 520 towards degree requirements at either the undergraduate or master's level (but not both).

² Nonbusiness electives may be part of minor requirement with the exception of business minors. In all instances, business/accountancy courses must be less than or equal to 50 percent of all applied courses.

MASTER OF ACCOUNTANCY

The objective of the Master of Accountancy is to provide students with greater breadth and depth in accounting education. The purpose of this program is to provide students with the knowledge and background necessary for entry into the profession and enable them to continue to grow and develop within the profession.

The American Institute of Certified Public Accountants recommends five years of academic study in order to obtain the professional knowledge for a career in accounting. More than 46 states, including Mississippi and surrounding states, have laws requiring five years of study as a prerequisite to sit for the CPA examination.

ADMISSION. Admission to this program is based on the applicant's undergraduate record and the score made on the Graduate Management Admission Test. Test scores must be presented prior to admission.

PREREQUISITES. Students must present credit in the following undergraduate courses (or their equivalents): Accountancy 303, 304, 309, 401, 402, 405; Economics 202, 203; Business 230, 250, 302, and Accountancy 411; Management 372; Marketing 351; Mathematics 267; and knowledge of computer programming. A minimum grade of C is required in Accountancy 401, 402, and 405. Transfer students having no undergraduate systems course comparable to Accountancy 310 are required to take Accountancy 609 (Systems).

Courses	Semester Hours
ACCY 509, 601, 605, and 610	12
Accountancy electives	12
Approved nonaccountancy electives ¹	6
Total	30

¹ A student is allowed to use 3 hours of ACCY 520 (Accounting Internship) to substitute for a nonaccountancy elective for either the Master of Accountancy or Master of Taxation degree. While a student may enroll in up to 6 hours of ACCY 520, only 3 hours would count towards degree requirements. Specifically, a student may apply 3 hours of ACCY 520 towards degree requirements at either the undergraduate or master's level (but not both).

MASTER OF TAXATION

The objective of the Master of Taxation is to provide students with a greater breadth and depth in accounting education and a specialization in the tax area. The purpose of this program is to provide education to allow entry into a professional tax career upon graduation and prepare for continuing growth and development.

ADMISSION. Admission to this program is based on the applicant's undergraduate record and the score made on the Graduate Management Admission Test. Test scores must be presented prior to admission.

PREREQUISITES. Students must present credit in the following undergraduate courses (or their equivalents): Accountancy 303, 304, 309, 401, 402, 405; Economics 202, 203; Business 230, 250, 302, and Accountancy 411; Management 372; Marketing 351; Mathematics 267; and knowledge of computer programming. A minimum of C is required in Accountancy 401, 402, and 405. Transfer students having no undergraduate systems course comparable to Accountancy 310 are required to take Accountancy 609 (Systems).

Courses	Semester Hours
Accountancy 601, 605, 610	9
Required tax courses: ACCY 509, 612	6
Tax electives	6
Accountancy electives	6
Approved nonaccountancy electives	3
Total	30

The School of Applied Sciences

Linda F. Chitwood, dean

James D. Stafford, associate dean

George Street University House • (662) 915-7900

GENERAL INFORMATION

Mission • The School of Applied Sciences was established in 2001 and includes the departments of Communicative Disorders, Family and Consumer Sciences, Health, Exercise Science and Recreation Management, Legal Studies, and Social Work. The mission of the school is to enhance society's health and well-being. This is being accomplished through academic, clinical, and experiential-based programs that emphasize leadership, scholarship, and professional services.

Admission to the School • Freshmen entering the School of Applied Sciences must meet the same requirements as those for general admission to the University. Students transferring into the school should contact the dean's office for evaluation of their transfer credits. Additional requirements for admission to specific programs are listed under each department.

Degrees Offered • The school offers the Bachelor of Arts in Communicative Disorders, Bachelor of Arts in Park and Recreation Management, Bachelor of Science in Family and Consumer Sciences, Bachelor of Science in Exercise Science, Bachelor of Science in Criminal Justice, Bachelor of Paralegal Studies, and the Bachelor of Social Work.

Accreditation • The clinical service and academic training programs of the Department of Communicative Disorders are accredited by the American Speech-Language-Hearing Association. The Dietetics Program in the Department of Family and Consumer Sciences is accredited by the American Dietetics Association. The Park and Recreation Management program is accredited by the National Recreation and Park Association. The program leading to the Bachelor of Social Work is accredited by the Council on Social Work Education.

ACADEMIC POLICIES

Degree Requirements • The number of semester hours required for a degree in the School of Applied Sciences ranges from 126 to 130. Students must have a minimum 2.0 GPA on all course work submitted for the degree, 2.0 GPA on all University of Mississippi course work attempted, and 2.0 GPA on all work attempted at any institution of higher learning. Applicants for degrees must have earned at least 30 semester hours of residence credit in the School of Applied Sciences at The University of Mississippi. Twenty-five percent of credit hours submitted for the degree must be taken at The University of Mississippi.

With the approval of the dean, credit for work completed in other institutions or by correspondence and extension may be granted. Credit from a community college is limited to one-half the total requirements for graduation in a given curriculum. Credit for correspondence courses is limited to 33 hours, and no more than 6 of the student's last 21 hours may be correspondence and/or transfer courses.

210 • The School of Applied Sciences

Professional core course work for newly admitted students, readmitted students, and transfer students must be current within a seven-year period at the time of admission to a program, unless more current course work is required by accreditation standards; there will be no limit on general course work.

DEPARTMENTS AND DEGREES OFFERED

COMMUNICATIVE DISORDERS

Associate Professor Carolyn Wiles Higdon, chair • 303 GEORGE HALL • (662) 915-7652

A MAJOR IN COMMUNICATIVE DISORDERS FOR THE B.A. DEGREE requires 36 semester hours including Communicative Disorders 201, 205, 211, 216, 301, 316, 351, 356, 495, and 9 additional hours as specified by the student's adviser. The B.A. in communicative disorders is considered pre-professional training, as graduate study is necessary to qualify for certification by the American Speech-Language-Hearing Association in speech-language pathology or audiology.

A MINOR IN COMMUNICATIVE DISORDERS consists of 18 hours. Students desiring a minor must plan their sequence of courses with the department chair.

FRESHMAN YEAR

Courses	Semester Hours
ENGL 101, 102	6
Foreign Language	6
Biological Science w/lab	6-8
History	6
Art, Music, Theatre	3
CD 201 (Introduction to Communicative Disorders)	3
Total	30-32

SOPHOMORE YEAR

Courses	Semester Hours
ENGL 200-level or higher	6
Foreign Language	6
Social Sciences	6
Math	6
Physical Science	3
CD 205 (Anatomy and Physiology)	3
CD 211 (Phonology)	3
CD 216 (Language Development)	3
Total	36

JUNIOR YEAR

Courses	Semester Hours
Humanities	3
CD 301 (Articulation Disorders)	3
CD 316 (Language Disorders)	3
CD 351 (Basic Audiology)	3
CD 356 (Aural Rehab)	3
Electives or Minor	15
Total	30

SENIOR YEAR

Courses	Semester Hours
CD 495 (Clinical Science)	3
CD Electives	9
Electives or Minor	18
Total	30

FAMILY AND CONSUMER SCIENCES-FCS

Associate Professor Diane Tidwell, interim chair • LENOIR HALL • (662) 915-7371

BACHELOR OF SCIENCE IN FAMILY AND CONSUMER SCIENCES

Four areas of emphasis in family and consumer sciences are offered: dietetics and nutrition; hospitality management; human development; and merchandising. The department is accredited by the Council for Accreditation of the American Association of Family and Consumer Sciences. The curriculum in dietetics and nutrition satisfies didactic education requirements as approved by the Commission on Accreditation for Dietetic Education (CADE) of the American Dietetic Association.

A major in family and consumer sciences for a B.S. degree consists of 48 hours of core courses in addition to courses specified by each emphasis area. The core courses include: ENGL 101; LIBA 102; ENGL 321; 3 hours of literature; 6 hours of modern language (all hours in one language); PSY 201; SOC 101; MATH 115; MATH 120 or 121 (MATH 121 required for dietetics and nutrition); fine arts elective; BISC 102/103; BISC 104/105; SPCH 102 or 105; and CSCI 103 or MIS 241.

**CURRICULUM FOR THE BACHELOR OF SCIENCE IN FAMILY AND
CONSUMER SCIENCES DEGREE with emphasis in DIETETICS AND NUTRITION**

FRESHMAN YEAR

Courses	Semester Hours
FCS 150–Introduction to the FCS Profession	3
BISC 102/103, 104/105	8
ECON 202–Principles of Microeconomics	3
ENGL 101–English Composition	3
LIBA 102	3
MATH 121–College Algebra	3
Modern Language	6
PSY 201–General Psychology	3
SOC 101–Introductory Sociology	3
Total	35

SOPHOMORE YEAR

Courses	Semester Hours
FCS 211–Principles of Food Preparation	3
FCS 311–Nutrition	3
BISC 206 and 207	8
CHEM 105, 115, 106, 116–General Chemistry	8
Fine arts elective	3
Literature	6
MATH 115–Elementary Statistics	3
Elective	3
Total	37

JUNIOR YEAR

Courses	Semester Hours
FCS 363–Foodservice Procurement	3
FCS 410–Fundamentals of Clinical Dietetics	3
FCS 415–Experimental Food Study	3
CHEM 121–Fundamentals of Organic Chemistry	4
CHEM 371–Biochemical Concepts	3
CSCI 103 or MIS 241	3
BISC 210–Principles of Microbiology	4
ENGL 321–Advanced Composition	3
MGMT 371–Principles of Management	3
SPCH 102–Fundamentals of Public Speaking or SPCH 105–Business and Professional Speech	3
Total	32

SENIOR YEAR

Courses	Semester Hours
FCS 411–Advanced Nutrition	3
FCS 443–Consumer Problems	3
FCS 461–Foodservice Systems Management I	3
FCS 462–Quantity Food Production and Service	2
FCS 472–Quantity Food Production and Service Lab	2
FCS 483–Practicum in Dietetics and Nutrition	3
FCS 511–Medical Nutrition Therapy	3
FCS 517–Community Nutrition	3
MGMT 383–Human Resources Management	3
ECON 202–Principles of Microeconomics	3
Electives	6
Total	34
Minimum total	138

**CURRICULUM FOR THE BACHELOR OF SCIENCE IN
FAMILY AND CONSUMER SCIENCES DEGREE
with emphasis in HOSPITALITY MANAGEMENT**

FRESHMAN YEAR

Courses	Semester Hours
FCS 150–Introduction to the FCS Profession	3
FCS 215–Introduction to Hospitality Management	3
BUS 250–Legal Environments in Business	2
ENGL 101–English Composition	3
LIBA 102	3
MATH 120 or 121	3
BISC 102/103, 104/105	8
PSY 201–General Psychology	3
SOC 101–Introductory Sociology	3
Total	31

SOPHOMORE YEAR

Courses	Semester Hours
FCS 211–Principles of Food Preparation	3
FCS 311–Nutrition	3
ECON 202	3
ACCY 201–Introduction to Accounting Principles Literature	3
MIS 241–Management Information Systems I or CSCI 103–Computer Survey	3
Modern Language	6
MATH 115–Elementary Statistics	3
ENGL 321–Advanced Composition	3
SPCH 102 or 105	3
Total	33

JUNIOR YEAR

Courses	Semester Hours
FCS 361–Front Office Administration	3
FCS 363–Foodservice Procurement	3
FCS 443–Consumer Problems	3
FCS electives	6
Fine arts elective	3
MGMT 371–Principles of Management	3
MGMT 383–Human Resources Management	3
MKTG 351–Marketing Principles	3
Electives	6
Total	34

SENIOR YEAR

Courses	Semester Hours
FCS 443–Consumer Problems	3
FCS 461–Foodservice Systems Management I	3
FCS 467–Hospitality Services Financial Management	3
FCS 484–Practicum in Hospitality Management	3
FCS 462–Quantity Food Production and Service	2
FCS 472–Quantity Food Production and Service Laboratory	2
FCS electives	6
PRM 380; MKTG 353, 354, 361, or ACCY 202	3
Electives	10
Total	35
Minimum total	133

CURRICULUM FOR THE BACHELOR OF SCIENCE IN FAMILY AND CONSUMER SCIENCES DEGREE with emphasis in HUMAN DEVELOPMENT

FRESHMAN YEAR

Courses	Semester Hours
FCS 150–Introduction to the FCS Profession	3
BISC 102/103, 104/105	6-8
ENGL 101–English Composition	3
Fine arts elective	3
LIBA 102	3
MATH 120–Quantitative Reasoning, MATH 121– College Algebra or higher	3
MIS 241–Management Information Systems I or CSCI 103–Computer Survey	3
SOC 101–Introductory Sociology	3
SPCH 102–Fundamentals of Public Speaking or SPCH 105–Business and Professional Speech	3
Total	30-32

SOPHOMORE YEAR

Courses	Semester Hours
FCS 311–Nutrition	3
FCS required electives*	3
Literature (3 hours at 200 level)	6
ENGL 321–Advanced Composition	3
MATH 115–Elementary Statistics	3
Modern Language	6
PSY 201–General Psychology	3
Social Work required electives**	3
Electives	3
Total	33

JUNIOR YEAR

Courses	Semester Hours
FCS 323–Human Development Across the Life Span	3
FCS 325–Family Relations	3
FCS 327–Topics in Human Development	3
FCS 328–Child Development	3
FCS 443–Consumer Problems	3
FCS required electives*	6
MGMT 371–Principles of Management	3
Social Work required electives**	3
Electives	9
Total	36

SENIOR YEAR

Courses	Semester Hours
FCS 425–Adolescents and Families	3
FCS 427–Aging and Families	3
FCS 451–Parenting Across the Life Span	3
FCS 535–Human Sexuality	3
FCS required electives*	6
Electives	13
Total	31
Minimum total	130

*Students must take five (5) of the following courses:

FCS 329–Gender and Families	3
FCS 343–Socioeconomic Aspects of Housing	3
FCS 370–The Hospitalized Child	3
FCS 422–Administration of Child Development Programs	3
FCS 473–Family Life Education	3
FCS 482–Practicum in Human Development	3
FCS 517–Community Nutrition	3
FCS 521–Family Seminar	3
FCS 571–Introduction to Marriage and Family Therapy	3
CD 201–Introduction to Communicative Disorders	3
HP 191–Personal and Community Health	3
HP 203–First Aid	3
LM 302–Program Planning and Development	3

** Students must take two of the following courses:

SW 233–Juvenile Corrections	3
SW 315–Introduction to Social Work	3
SW 316–Social Welfare Policy I	3
SW 402–Child Welfare Policies	3
SW 417–Social Welfare Policy II	3

**CURRICULUM FOR THE BACHELOR OF SCIENCE IN
FAMILY AND CONSUMER SCIENCES DEGREE
with emphasis in MERCHANDISING**

FRESHMAN YEAR

Courses	Semester Hours
FCS 102–Introduction to Merchandising	3
FCS 150–Introduction to the FCS Profession	3
BISC 102/103, 104/105	8
ENGL 101–English Composition	3
LIBA 102	3
MATH 120–Quantitative Reasoning or MATH 121–College Algebra	3
MIS 241–Management Information Systems I or CSCI 103–Computer Survey	3
PSY 201–General Psychology	3
SOC 101–Introductory Sociology	3
Total	32

SOPHOMORE YEAR

Courses	Semester Hours
FCS 201–Textiles	3
FCS 205–Soft Goods Marketing	3
FCS 306–Costume History	3
ENGL 321–Advanced Composition	3
SPCH 102 or 105	3
ECON 202–Principles of Microeconomics	3
ECON 203–Principles of Macroeconomics	3
Fine arts electives	3
Literature	6
MATH 115–Elementary Statistics	3
Modern Languages	6
Total	39

JUNIOR YEAR

Courses	Semester Hours
FCS 302–Dress Within Cultural Context	3
FCS 443–Consumer Problems	3
FCS electives*	3
ACCY 201–Introduction to Accounting Principles I	3
BUS 271–Business Communication	3
MGMT 371–Principles of Management	3
MKTG 351–Marketing Principles	3
MKTG 361–Introduction to Retailing	3
Electives	9
Total	33

SENIOR YEAR

Courses	Semester Hours
FCS 420–Merchandise Management	3
FCS 421–Global Textiles and Apparel Marketing	3
FCS 444–Strategic Issues in Services	3
FCS 481–Merchandising Internship	3
FCS electives*	6
JOUR 102–News Reporting or ENGL 321–Advanced Composition	3
MKTG 367–Consumer and Market Behavior	3
MKTG 353–Advertising and Promotion or MGMT 383–Human Resources Management	3
Electives	4-5
Total	31-32
Minimum total	135
*FCS Electives (6 hours):	
310–Non-Store Retailing	3
311–Nutrition	3
323–Human Development Across the Life Span	3
325–Family Relations	3
403–New York Study Tour	3
424–International Retailing	3
550–Seminar in Entrepreneurship	3
595–International Study Tour	3

HEALTH, EXERCISE SCIENCE AND RECREATION MANAGEMENT—HESRM

Professor Jim Gilbert, interim chair • 219 TURNER BUILDING • HESRM Homepage:
www.olemiss.edu/depts/eslm/

Areas of Study • Two undergraduate curricula are available leading to the Bachelor of Science in Exercise Science and the Bachelor of Arts in Park and Recreation Management. Upon admission, students should consult with their adviser concerning recommended electives and the required sequence of professional core courses. Students majoring in exercise science or park and recreation management must complete a minimum of 30 hours of resident credit in the School of Applied Sciences and at least 130 total credit hours. A maximum of 65 junior college and 33 correspondence and extension hours may be applied. Students must earn a 2.0 GPA on all work attempted at The University of Mississippi and all work submitted for the degree. Majors must also achieve a 2.5 GPA in all professional courses presented for their degree.

BACHELOR OF SCIENCE IN EXERCISE SCIENCE

The B.S. in Exercise Science degree program is designed for students entering allied health and fitness professions. With the B.S. degree, careers as health and fitness directors within private, municipal, corporate, and hospital-based fitness and health promotion centers are available. Students completing the B.S. degree often continue their education in exercise science, physical therapy, cardiac rehabilitation, and other health-related graduate programs.

CURRICULUM

FRESHMAN YEAR

<u>Courses</u>	<u>Semester Hours</u>
English Composition I, II	6
History	6
CHEM 103/113 or 105/115	4
BISC 102/103 or 160/161	4
Math 121 and 123	6
HP 191–Personal and Community Health	3
HP 203–First Aid	3
ES 100–Introduction to Exercise Science	1
Total	33

* Students should consult with their exercise science adviser concerning recommended electives, course prerequisites, and the required sequence of professional core courses.

SOPHOMORE YEAR

<u>Courses</u>	<u>Semester Hours</u>
Literature (200 or higher)	3
BISC 206 and BISC 207	8
PHYS 211/221 or 213/223	4
History or Appreciation of Art, Music, Dance, Theatre	3
ES 338–Motor Learning and Control	3
ES professional studies electives	3
Electives ³	9
Total	33

JUNIOR YEAR

Courses	Semester Hours
Fine arts, literature, humanities	3
Speech	3
ES 346–Kinesiology ¹	3
ES 347–Kinesiology Lab	1
ES 348–Exercise Physiology ²	3
ES 349–Exercise Physiology Lab	1
ES 391–Trends and Topics in Exercise Science	3
ES professional studies elective	6
Electives	9
Total	32

SENIOR YEAR

Courses	Semester Hours
Economics, political science, psychology, or sociology	3
ES 440–Behavioral Aspects of Exercise	3
ES 446–Biomechanics of Human Movement ³	3
ES 456–Exercise Testing and Prescription ⁴	3
ES 457–Exercise Testing and Prescription–Lab	1
ES 473 or 493–Practicum or Internship ⁵	3
ES professional studies elective	3
Electives	12
Total	31

¹ Prerequisite: BISC 102/103 or 160/161, BISC 206, 207, ES 347 must be taken during the same semester.

² Prerequisite: BISC 102/103 or 160/161, BISC 206, 207, CHEM from required list, ES 349 must be taken during the same semester.

³ Prerequisite: MATH 121, 123, PHYS from required list, ES 346 and ES 347.

⁴ Prerequisite: MATH 121, ES 348 and ES 349, ES 457 must be taken during the same semester.

⁵ Prerequisite: senior rank, 24 ES core hours complete, 2.5 GPA in ES core, consent of adviser.

BACHELOR OF ARTS IN PARK AND RECREATION MANAGEMENT

The B.A. in Park and Recreation Management degree program is designed to develop skills preparatory to leadership and supervisory roles in a variety of leisure service careers to include municipal, outdoor, therapeutic, military, church, youth, commercial/tourism, and industrial. The program is accredited by the National Recreation and Park Association.

CURRICULUM

FRESHMAN YEAR

Courses	Semester Hours
English Composition I, II	6
History	6
College Algebra	3
Computer Science—CSCI 191/192/193	3
HP 191—Personal and Community Health	3
HP 203—First Aid	3
PRM 194—Foundations of Leisure and Recreation	3
PRM 200—Park and Recreation Program Leadership	3
Total	30

* Students should consult with their park and recreation management adviser concerning recommended electives, course prerequisites, and the required sequence of professional core courses.

SOPHOMORE YEAR

Courses	Semester Hours
Literature (200 or higher)	6
Fine arts	3
Humanities	3
Biological science/physical science	3-4
General Psychology	3
Speech	3
PRM 302—Program Planning and Development	3
General electives	6
Total	30-31

JUNIOR YEAR

Courses	Semester Hours
Biological/physical science	3-4
Human growth and development	3
Elementary statistics	3
MKT 351–Marketing Principles	3
PRM 301–Planning and Evaluation in Park and Recreation Management	3
PRM 332–Outdoor Recreation	3
PRM 362–Recreation for Persons with Disabilities	3
PRM 391–Practicum in Park and Recreation Management I	1
PRM 400–Professional Development	1
PRM specialization track electives	6
General electives	4
Total	33-34

SENIOR YEAR

Courses	Semester Hours
Anthropology, sociology	3
Political science	3
JOUR 391	3
MGMT 371–Principles of Management	3
MGMT 383–Human Resource Management	3
PRM 401–Internship in Park and Recreation Management ¹	9-12
PRM 425–Design and Maintenance of Facilities	3
PRM 471–Administration of Park and Recreation Programs	3
PRM specialization track electives	7
Total	36

¹ See PRM 401 prerequisites.

PRM Specialization Track (13 hours). All PRM majors will complete one specialization track. The specialization must be declared before enrolling in PRM 401–Internship.

THERAPEUTIC RECREATION TRACK

PRM 472	Introduction to Therapeutic Recreation	3
PRM 573	Process in Therapeutic Recreation	3
PSYC 311	Abnormal Psychology	3
PRM 392	Practicum in Park and Recreation Management II	1
Elective	(BISC 206 or 207 required for TR certification) (Adviser approval: PSYC, SOC, EDSP, SW, ES)	3
	PRM 490–Independent Study	—
		13

RECREATIONAL LEADERSHIP TRACK

PRM 371	Camp Leadership	3
HP 303	Prevention and Care of Athletic Injuries	3
PRM 392	Practicum in Park and Recreation Management II	1
ES 402	Exercise Leadership	3
Electives	EL 154, 173, 174, 175, 233, 234, 255, 342, 352, 354, 359, 442	6
	HP 403–Advanced Prevention/Care of Athletic Injuries	
	PRM 475–Recreational Sports Programming	
	BISC 207–Anatomy and Physiology	
	PRM 490–Independent Study	
		<hr/> 16

TOURISM TRACK

PRM 380	Current Issues in Travel and Tourism Management	3
FCS 215	Introduction to Hospitality Management	3
FCS 467	Hospitality Services Financial Management	3
PRM 392	Practicum in Park and Recreation Management II	1
Elective	PRM 490–Independent Study	3
	PRM 510–Entrepreneurial Recreation	
	FCS 360–Legal Issues in the Hospitality Industry	
	FCS 361–Front Office Administration	
	FCS 461–Food Service Systems Management I	
	FCS 463–Food Service Procurement	
	FCS 464–Hospitality Service Promotion	
	FCS 466–Human Resources Development in Hospitality Industry	
	FCS 467–Hospitality Services Financial Management	
		<hr/> 13

OUTDOOR RECREATION AND INTERPRETATION TRACK

PRM 371	Camp Leadership	3
GEOL 104	Environmental Geology*	3
GEOG 302	Geography of Natural Resources*	3
PRM 392	Practicum in Park and Recreation Management II	1
Elective	ANTH 309–Indians of Mississippi and the South	3
	ANTH 319–Environmental History of the South	
	ANTH 323–Indians of North America	
	ANTH 339–African-American Anthropology	
	ANTH 404–Southern Folklore	
	BISC 318–Botany	
	BISC 322–General Ecology	
	BISC 329–Biology of Fishes	
	BISC 334–Ornithology	
	BISC 337–Entomology	
	BISC 342–Spring and Summer Flora of Mississippi	
	PRM 490–Independent Study	
	PRM 539–Outdoor Resources Management	
	PRM 569–Strategies and Applications in Outdoor Education	
		<hr/> 13

* Acceptable substitution as approved by the chair.

LEGAL STUDIES

Professor David H. McElreath, chair • Odom Hall • (662) 915-7902

The Department of Legal Studies offers the degrees of Bachelor of Paralegal Studies and Bachelor of Science in Criminal Justice. Each of these degrees has specific requirements as outlined below.

Bachelor of Paralegal Studies

The paralegal studies program is designed for the student who wishes to pursue a career as a paralegal or legal assistant.

CURRICULUM FOR THE BACHELOR OF PARALEGAL STUDIES

FRESHMAN YEAR

Courses	Semester Hours	
	1st	2nd
English 101, 102	3	3
Foreign Language	3	3
Natural Science w/lab	3-4	3-4
History 101, 102 or 105, 106	3	3
Fine Arts	3	
LA 201 (Introduction to Law)		3

SOPHOMORE YEAR

Courses	Semester Hours	
	1st	2nd
English (200 level)	3	3
Political Science 101	3	
Social Science		3
Math 115	3	
Math 120, 121, or higher		3
Natural Science	3	
Foreign Language	3	3
LA 204 (Legal Research/Writing I)		3
Speech 102 or 105	3	
CSCI 103 or 191 or 192		3

JUNIOR YEAR

Courses	Semester Hours	
	1st	2nd
LA 302 (Legal Research/Writing II)	3	
English 321	3	
LA 303 (Civil Litigation I)	3	
LA 304 (Civil Litigation II)		3
LA 305 (Criminal Law and Procedure)		3
LA 308 (Administration of Wills and Estates)		3
Minor/Elective	3	3
Minor/Elective	3	3
Minor/Elective	3	3

SENIOR YEAR

Courses	Semester Hours	
	1st	2nd
LA Elective	3	
LA 401 (Contracts)	3	
LA 402 (Torts)	3	
LA 405 (Business Organizations)		3
LA 406 (Domestic Law)		3
Minor/Elective	3	3
Minor/Elective	3	
Minor/Elective	3	
LA 495 (Internship)		3
LA 496 (Internship Seminar)		3

Bachelor of Science in Criminal Justice

The course of study leading to the Bachelor of Science in Criminal Justice degree offers students the opportunity to study law enforcement and the administration of justice. For majors in this field, a minimum grade of "C" must be attained on all criminal justice courses and all courses in the professional core.

CURRICULUM FOR B.S. IN CRIMINAL JUSTICE

Courses	Semester Hours
English 101; English 102 or LIBA 102	6
Literature	6
History	6
Modern Language	6
Sociology 101	6
Science w/lab	6-8
Computer Science 191 or 192	3
Math 115 or more advanced	3
Math 120 or more advanced	3
Speech	3
Humanities	3
Fine Arts	3
Social Science Elective	3
Select from the following: PSY 201, 301, 311; SW 321; SOC 102, 211, 233, 307, 327, 333, 431	6
Criminal Justice 271	3
Criminal Justice 371	3
Criminal Justice 372	3
Criminal Justice 473	3
Criminal Justice 474	3
Political Science 307	3
Select from Political Science 300, 305, 332, 365, 368; 3 hours of criminal justice internship; any course with a CJ prefix	15
Electives or Minor	33-35
Total of 128 hours required for degree	

SOCIAL WORK

Professor Carol Boyd, chair • 231 HUME HALL • (662) 915-7336

The mission of the Department of Social Work, in keeping with the University's emphasis on excellence in teaching, research, and service, is to provide quality undergraduate preparation for entry into generalist social work practice and graduate education, consistent with the Social Work Code of Ethics.

Accreditation. The Department of Social Work at The University of Mississippi has been continuously accredited by the Council on Social Work Education since 1974.

Licensure Law. In Mississippi and a majority of other states, social work practitioners are required by state law to be licensed. This requires passing a national licensure exam, which is reciprocal in most states.

A MAJOR LEADING TO THE BACHELOR OF SOCIAL WORK (B.S.W.) requires the course work shown in the curriculum below. Sequencing of social work courses is mandatory as indicated in course descriptions. A minimum grade of C is required in all social work courses. No student may enroll in a social work course until a minimum grade of C has been obtained in prerequisite courses. No social work course may be taken more than two times.

Students become social work majors by declaring the major in the School of Applied Sciences. Majors progress through the curriculum by passing courses in sequential fashion. Majors failing to reflect both an understanding and an endorsement of the Social Work Code of Ethics in course assignments, exams, and in required community service activities will be advised to seek another major.

CURRICULUM FOR THE B.S.W. DEGREE

Courses	Semester Hours
English 101, 102	6
Humanities: 6 hours in each of two subject areas to be chosen from English, Modern Languages, Religion, Philosophy, African American studies, Gender studies, or Southern studies, or 12 hours in one of the above areas	12
Natural science: 6 hours in one subject, chosen from astronomy, physics or physical science, biology, chemistry, geology; must include laboratories (3 hours must be Biology 102, Human Biology)	6-8
Any 6 hours of History	6
Mathematics: 115 required; other chosen from 120, 121, 123, 261, 261, 262, 267	6
Political Science 101	3
Psychology 201, 311	6
Fine or performing arts (same as B.A. Required Curriculum)	3
Sociology 101, Sociology 301 or FCS 325, and Sociology 233(same as SW 233)	9
Social Work 315, 316, 321, 322, 402 or 326, 417, 335, 436, 437, 438, 440, 450, 495, 496	46
Electives (to bring total number of hours to 126)	

No additional minor is required for the B.S.W. degree.

NO STUDENT MAY MINOR IN SOCIAL WORK.

The School of Business Administration

Brian J. Reithel, interim dean

Delvin D. Hawley, senior associate dean

Ann L. Canty, associate dean

Doug Gurley, executive director

Mississippi Small Business Development Center
253 Holman Hall

GENERAL INFORMATION

Environment • The contemporary business environment requires an education that enables a student to understand and cope with dynamic and complex global business opportunities. Leaders in business, government, and other social and economic institutions must understand global economic forces, cultural diversity, and technological changes in products and processes, while maintaining a core set of values and sound ethical practices. Responding to these contemporary business needs, the School of Business Administration offers professional programs designed to prepare students to contribute value to their organizations, to their communities, and to society as a whole.

Vision • Our vision is to strive for continuous improvement in all aspects of the learning environment in the School of Business Administration (SBA), thereby providing all students with innovative, interdisciplinary programs of study while substantively contributing to the body of business knowledge in the theoretical, as well as the practical, realms of research.

Mission • Our mission is to educate students in a learning environment conducive to excellence in meeting the complex challenges of the global marketplace. Our faculty seeks to expand the knowledge base and to integrate this cutting-edge information into the learning experiences of students. In addition, it is the mission of the SBA to extend service to our constituents in order to enhance learning, economic development, and business growth in Mississippi, the region, and the nation.

Core Values • The school's core values characterize the dedication of faculty, students, and staff who learn together and contribute to one another's development. The values of outstanding teaching, respect for others, and service to our constituents characterize the commitment to excellence that faculty and students possess in their interactions with each other and with the business community. The school recognizes the importance of scholarly and applied research and is committed to pursuing research that will solve problems faced by private and public organizations. The fundamental values of our school are:

- To provide our students with a broad-based education, encompassing a strong foundation in business as well as a full range of skills and leadership competencies.
- To place a priority on faculty intellectual contributions that develops the national reputation of our scholars.
- To incorporate up-to-date information technology in our teaching and research.

- To create an intellectual climate that values creativity and innovation and is rich in diversity, teamwork, and high ethical standards.
- To respond to our key constituents by demonstrating continuous improvement in our programs and prudent stewardship of our resources.

Professional Preparation • The School of Business Administration provides students with an opportunity to gain a broad understanding of business and to acquire special expertise in one or more of the school's areas of concentration. Comprehensive programs provide students with a strong background in banking, economics, finance, insurance and risk management, management, marketing, marketing communications, management information systems, and real estate. A balanced selection of advanced courses in the respective areas comprises major programs appropriate to the specialized interests and needs of students. Through innovation and creativity, continuous improvement of the school's programs assures graduates of preparation to meet their career challenges well into the 21st century. Individual students are empowered to choose the career path that meets both their professional and personal goals.

Academic Integrity • The School of Business Administration upholds honor and academic integrity in all of its teaching, research, and service activities. All business faculty, staff, and students are charged with the responsibility to behave with personal and professional integrity and to refrain from dishonorable conduct.

Accreditation • The School of Business Administration was initially accredited by the American Assembly of Collegiate Schools of Business in 1944. Accreditation is offered only to schools that meet the strict academic standards and program requirements prescribed by this assembly. Both the undergraduate and graduate curricula received full reaccreditation in 2001. Rather than remain content with the status quo, the school continues to evaluate and revise its programs to meet standards reflective of contemporary issues and demands.

Academic Honors • In addition to awards available to outstanding University students generally, the following scholastic honors and prizes are offered to students in the School of Business Administration. For details, see the Academic Program chapter.

OUTSTANDING MANAGEMENT INFORMATION SYSTEMS STUDENT AWARD

OUTSTANDING MANAGERIAL FINANCE STUDENT AWARD

OUTSTANDING MARKETING STUDENT AWARD

OUTSTANDING STUDENT IN BANKING AND FINANCE AWARD

OUTSTANDING STUDENT IN ECONOMICS AWARD

OUTSTANDING STUDENT IN INSURANCE AND RISK MANAGEMENT AWARD

OUTSTANDING STUDENT IN PETROLEUM LAND MANAGEMENT AWARD

OUTSTANDING STUDENT IN REAL ESTATE AWARD

OUTSTANDING MANAGEMENT STUDENT AWARD

PHIL B. HARDIN FOUNDATION MARKETING AWARD

FACILITIES

Conner Hall • Conner Hall, completed in 1961 and named in honor of Governor Martin Sennett Conner, was renovated in 1998. Conner Hall provides administrative and faculty offices for the School of Accountancy as well as multimedia classrooms and computer laboratories for both business and accountancy classes.

Holman Hall • The school is housed primarily in Holman Hall. Large classrooms and multimedia equipment are designed to facilitate the discussion method of teaching. In addition, Holman Hall contains modern computer laboratories, group study rooms, study alcoves, seminar rooms, and conference rooms.

North Hall • North Hall provides a structural connection between Conner Hall and Holman Hall as well as administrative offices, faculty offices and computer labs. North Hall also contains two state-of-the-art distance-learning classrooms, permitting interactive classes between the Oxford, Southaven, and Tupelo campuses.

The University Library • An extensive collection of books on a range of business and commerce issues, numerous business periodicals, several online databases, and many other services are available in the John Davis Williams Library.

SMALL BUSINESS DEVELOPMENT CENTER

The University of Mississippi is the lead institution in the Mississippi Small Business Development Center. The program is sponsored by the School of Business Administration in cooperation with the Small Business Administration. The Ole Miss SBDC subcenter employs business students, under faculty supervision, and individual faculty members to work with small businesses as consultants. They prepare written reports of findings for the business owner/manager and give oral presentations. This program provides a unique learning experience for students and free counseling services to participating firms.

TEACHING

Instructional Methods • The school seeks to provide excellence in teaching. Instructors use theory, analytical methods, the results of research, and many practical applications to help students understand good management practice.

Computers are used extensively throughout the curriculum, ranging from individual microcomputer use to mainframe and supercomputer systems. Multimedia presentation facilities, distance learning classrooms, videoconferencing capabilities, large and well-equipped computer labs, and an information network that is accessible from every office, classroom, and study area enable the students and faculty to work together in an environment that promotes efficient learning and personal interaction. Interactive computer simulations, presentations, and decision-making techniques are offered in numerous classes across the business curriculum.

Business and public leaders are frequently invited to the campus to address the students in classes, in professional club programs, and in the visiting speakers series. The school encourages students to participate in business internships before graduation to apply the principles they have studied during their classroom experiences.

Robert M. Hearin Distinguished Lecture Series • The Robert M. Hearin Distinguished Lecture Series was established by the Robert M. Hearin Support Foundation to provide students, faculty, and the public with access to nationally prominent scholars and business leaders. Selected from outstanding business schools and the most dynamic corporations in the nation, internationally acclaimed authors, educators, and executives share their insights on economic development and the world economy.

Sam and Mary Carter Lecture Series • The Sam and Mary Carter Lecture Series in Banking and Finance was established by Celia Carter Muths and Mary Carter Speed in 1987 in honor of their parents. The purpose of the lecture series is to bring to the University outstanding banking or finance executives to make presentations to students and faculty on current issues in the financial sector of our economy.

Otho Smith Fellows Program • The Otho Smith Fellows Program, established in the fall of 1981, is funded through a grant from the Phil B. Hardin Foundation to the School of Business Administration. The grant is in honor of the late Mr. Smith, a businessman from Meridian, Mississippi, and a former president of the Ole Miss Alumni Association. Through this program students, faculty, and the surrounding community are provided an opportunity to meet and interact with successful business executives and scholars. The purpose of these interactions is to foster understanding and appreciation concerning the role and duties of a successful business executive, to discuss significant issues within business, and to ascertain the relationship and responsibilities of business to society.

Mr. and Mrs. James E. King, Sr., Lecture Series in Business Ethics • The Mr. and Mrs. James E. King, Sr., Lecture Series in Business Ethics was established by Mr. and Mrs. Julius W. King of Laurel, Mississippi, to honor his parents' memory. Through this lecture series, students, faculty and the surrounding community have an opportunity to interact with renowned leaders who emphasize the importance of ethical standards in business and one's personal life.

FUNDED FACULTY POSITIONS

Chair of Banking • With the cooperation and support of the Mississippi Bankers Association, the School of Business Administration offers both undergraduate and graduate study designed to prepare students for careers as officers of commercial banks. Opportunities are provided for students to acquire actual working experience in Mississippi banks. The undergraduate program leads to the degree of Bachelor of Business Administration with a major in banking and finance.

Phil B. Hardin Chair of Marketing • With the cooperation and support of the Phil B. Hardin Foundation, both undergraduate and graduate curricula in marketing are being advanced at the University. The chair provides a leadership role for Mississippi in applied and academic research in marketing. The undergraduate program leads to the degree of Bachelor of Business Administration with a major field in marketing.

Michael S. Starnes Professor of Management • Mr. Starnes endowed this position to support the teaching and research activities of an established scholar who teaches courses in management and organization studies.

Morris Lewis, Jr., Lectureship • Friends and family members of Morris Lewis, Jr., have endowed a faculty position in his honor. The endowment supports the teaching and research activities of an established scholar who teaches business courses at the graduate and undergraduate levels.

Chair of Real Estate • The J. Ed Turner Chair of Real Estate was established in 1980 with partial funding by the Mississippi Real Estate Commission to meet the need of the real estate profession and related industries for highly qualified individuals with in-depth understanding of an increasingly complex industry. Because stricter standards for the training and licensing of real estate practitioners have been adopted by state governments, a corresponding need has developed for broader programs of higher education in the field. Real estate courses offered by the chair are intended to provide students with specialized training for careers in real estate brokerage, financial institutions, appraisal, corporations and various government agencies. In addition, the courses satisfy the educational requirements for a real estate license.

Chair of Free Enterprise • The P.M.B. Self, William King Self, and Henry C. Self Chair of Free Enterprise was established in 1982 by a donation to the University by the Self family of Marks, Mississippi. The purpose of the chair is twofold: to publish objective articles in nationally recognized journals to further research in the national economy and to help determine the proper role of government in the economy, and to promote the education of students, businessmen, and government officials in the principles and philosophies of the free-market system.

Tom B. Scott Professor of Financial Institutions • The Chair of Financial Institutions was established in 1982 in the School of Business Administration with the support of the members of the Mississippi Savings and Loan League. The objectives of the chair are twofold: to further research in areas associated with the financial services industry and to promote excellence in education.

Robertson Chair of Insurance • The Gwenette P. and Jack W. Robertson, Jr. Chair of Insurance was established to encourage students to achieve excellence in the insurance and risk management field. In addition to providing a high quality insurance and risk management program, the chair holder is engaged in research and scholarship applicable to the needs of the insurance industry. A close working relationship with the insurance industry provides opportunities for students and faculty to gain meaningful practical experience as well as an appreciation of the industry's ethics and standards of conduct.

The Robert M. Hearin Chairs of Business Administration • The Robert M. Hearin Chairs of Business Administration were established by the Robert M. Hearin Support Foundation. These chair holders are outstanding scholars with national reputations in a business field. The Hearin chair holders conduct significant research and teach at both the undergraduate and graduate levels.

ENTERING THE SCHOOL OF BUSINESS ADMINISTRATION

Admission • Students wishing to enter from high school must meet the same requirements as those for general admission to the University.

Transfer Students • Students transferring from an accredited college or university should contact the Dean's Office in the School of Business Administration for evaluation of their accumulated credits.

Financial Aid • All applications for financial aid should be addressed to the Director of Financial Aid, The University of Mississippi, University, Mississippi 38677. Scholarships and loans available specifically for students in the School of Business Administration, as well as general financial aid programs, are listed in the Financial Aid chapter of this catalog.

DEGREE OFFERINGS AND PLACEMENT

Baccalaureate Degree Offered in Business • Bachelor of Business Administration (B.B.A.)

Career Services • Graduates and alumni of the University are assisted with employment through an aggressive and expanding program of services provided by the Career Center. The school cooperates with the Career Center to help students locate employment suited to individual training and interests.

GENERAL DEGREE REQUIREMENTS

Credit Hours and Residence • Minimum total: 128 semester hours (132 for MIS majors). One-half of the total credit hours required for a B.B.A. degree must be outside business and accountancy. Students must complete at least one-half (50 percent) of their business and accountancy courses at The University of Mississippi, including 30 hours at the 300 level or above in business, economics, or accountancy. Not more than 4 hours may be in exercise and leisure activity courses. Business electives should be at the 300 level or above.

Credit from Other Sources • With the prior approval of the dean, credit for work done in other institutions or by correspondence and extension may be granted. Credit from community colleges is limited to one-half the total requirements for graduation in a given curriculum. Credit for correspondence courses is limited to 33 hours, and if the last credit is of this type, it may not exceed 6 hours.

Grade Requirements for a B.B.A. Degree • The overall grade-point average on all courses attempted at The University of Mississippi must be at least 2.0. In addition, on courses submitted for a degree, the 2.0 average also must be obtained (1) on courses taken in residence at the University, (2) on business, economics, and accountancy residence courses, and (3) on residence courses in the designated major field. Students who entered college in fall 1997 or after must have a 2.0 grade-point average on all college work attempted.

Maximum Load • No student may enroll for more than 18 semester hours exclusive of exercise and leisure activity courses, and basic air, military, or naval science courses unless the student has earned the privilege of taking additional work by an exceptional record of grades during the preceding semester. For each additional semester hour of work taken, the student must have a grade point average for the preceding semester two-fifths (0.4) of a grade point higher than 2.0.

Majors and Minors • Students pursuing business degrees may choose a major from the Fields of Concentration listed below. Students in most majors also may pursue a nonbusiness minor as well as a minor in another area of business. A business adviser should be consulted to determine the availability of and requirements for minors.

BACHELOR OF BUSINESS ADMINISTRATION

MAJOR FIELDS for the B.B.A. degree:

BANKING AND FINANCE, CODE 2003. Work in money and banking, business finance, and investments acquaints the student with the role and function of financial institutions and transactions in the economic system and provides the student with adequate undergraduate training for private or public employment.

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ECONOMICS, CODE 2004. The study of economics provides a foundations for many positions in business and government. These positions include research analysts, statisticians, and economists.

INSURANCE AND RISK MANAGEMENT, CODE 2005. The insurance and risk management curriculum is carefully designed to prepare students to enter the job market in such positions as commercial underwriters, claims adjusters, corporate risk analysts, independent agents, and sales representatives. After the introductory risk and insurance course, students take courses addressing the management of potential losses of property, legal suits, life, and health. The loss of property and legal suits by businesses is emphasized throughout and the corporate risk management course ties together all elements of managing these exposures. Great emphasis is placed on the summer internship courses specifically designed for insurance and risk management majors.

MANAGEMENT, CODE 2011. The curriculum is broad in nature and designed to provide professional education for management positions in private and public organizations. The program also provides a foundation for graduate study and professional development. A variety of courses is available for students to develop knowledge and skills in behavioral management, human resource management, and operations management. Alternatively, an emphasis in petroleum land management is offered.

MANAGEMENT INFORMATION SYSTEMS, CODE 2076. This unique program is designed to educate students as information system professionals. Students are provided with knowledge involving information systems technology, information concepts and processes, and organizational functions and management (which includes interpersonal and organizational behavior and analytical and statistical management).

MANAGERIAL FINANCE, CODE 2026. The curriculum provides students with exposure to financial institutions, corporate financial decision making, investment markets, and international finance. Students develop a sufficient background in finance for employment in the public or private sector.

MARKETING, CODE 2012. The marketing curriculum provides instruction in basic principles, major functions, and principal institutions of marketing. It emphasizes skills needed in advertising, retailing, sales management, marketing research, product management, distribution management, and related areas.

MARKETING COMMUNICATIONS, CODE 2053. The marketing communications curriculum allows students to combine basic principles of marketing and communications. Students will develop a foundation in both business and journalism to prepare for careers in a variety of fields, including advertising, public relations, and broadcasting.

REAL ESTATE, CODE 2027. The real estate curriculum includes instruction in principles, finance, appraisal, law, land use controls and investment analysis. The major is intended to assist students interested in real estate careers including brokerage, lending, corporate positions and government agencies. Students are prepared for examinations for state real estate broker and salesperson licenses.

BASIC CURRICULUM TABLE FOR THE B.B.A.

All students with majors in the School of Business Administration, except for those with a major in management information systems, marketing communications, and the petroleum land management emphasis in management, are required to follow the prescribed curriculum table below for the freshman and sophomore years.

Tables for the junior and senior years are given on the following pages by major subject and code number.

All business students must demonstrate computer proficiency in their first week of enrollment in MIS 241 by passing the MIS Basic Skills Competency Exam, or by successfully completing MIS 100.

Elective courses may be taken in semesters other than those in which they are listed.

FRESHMAN YEAR

Courses	Semester Hours	
	1st	2nd
English 101, 102–English Composition	3	3
Humanities–history or philosophy or modern language	3	3
Mathematics 267, 268 or 261, 262–Calculus for Business, Economics and Accountancy I, II or Unified Calculus and Analytic Geometry I, II	3	3
Laboratory science–astronomy, biology, chemistry, geology, or physics	3-4	3-4
Behavioral or social science–psychology, sociology, anthropology, or political science		3
Fine arts–art, art history, dance, music, or theater arts	3	

SOPHOMORE YEAR

Courses	Semester Hours	
	1st	2nd
Accountancy 201, 202–Introduction to Accounting Principles	3	3
Economics 202, 203–Principles of Microeconomics, Principles of Macroeconomics	3	3
English 250–Advanced Composition Literature	3	3
Nonbusiness elective or minor course	6	
Business 250–Legal Environment of Business		2
Management Information Systems 241	3	
Business 271–Business Communication		3
Business 230–Economic Statistics I		3

BANKING AND FINANCE, Code 2003

The banking and finance major consists of twenty-four (24) semester hours.

JUNIOR YEAR

Courses	Semester Hours	
	1st	2nd
Business 302–Economic Statistics II	3	
Marketing 351–Marketing Principles	3	
Finance 331–Business Finance I	3	
Management 372–Operations Management I	3	
Finance 303–Money and Banking	3	
Economics 307–Managerial Economics		3
Management Information Systems 309–Management Information Systems II		3
Management 391–Organizational Behavior		3
Finance 333–Monetary and Banking Policy		3
Finance 334–Investments		3
Business elective 300 or above		3
Nonbusiness elective or minor course	3	

SENIOR YEAR

Courses	Semester Hours	
	1st	2nd
Finance 537–Bank Management I	3	
Nonbusiness elective or minor course	3	
Business elective 300 or above	3	
Business Studies 390–Business Career Planning	0	
Management 493–Management of Strategic Planning		3
Finance 538–Bank Management II		3
Business or nonbusiness elective 300 or above		3
Restricted elective*	6	3

*Choose from 300+ Accounting, ECON 403 or 404, or FIN 341, 355, 431, 533, 534, 561, 568, or 581.

ECONOMICS, Code 2004

The economics major consists of twenty-four (24) semester hours, including ECON 403 and ECON 404, and eighteen (18) semester hours of economics courses.

JUNIOR YEAR

Courses	Semester Hours	
	1st	2nd
Business 302–Economic Statistics II	3	
Marketing 351–Marketing Principles	3	
Finance 331–Business Finance I	3	
Management 372–Operations Management I	3	
Economics 307–Managerial Economics		3
Management Information Systems 309–Management Information Systems		3
Management 391–Organizational Behavior		3
Economics elective*		6
Nonbusiness elective or minor course	3	

SENIOR YEAR

Courses	Semester Hours	
	1st	2nd
Economics 403 and 404–Intermediate Microeconomics and Intermediate Macroeconomics	3	3
Nonbusiness elective or minor course	3	
Business electives 300 or above	6	
Business Studies 390–Business Career Planning	0	
Management 493–Management of Strategic Planning		3
Economics elective*	6	6
Business or nonbusiness elective 300 or above		3

*Choose from ECON 303, 305, 308, 323, 329, 401, 406, 417, 422, 504, 505, 506, 510, 530, 540, 581, or 583.

INSURANCE AND RISK MANAGEMENT, Code 2005

The insurance and risk management major consists of twenty-four (24) semester hours.

JUNIOR YEAR

Courses	Semester Hours	
	1st	2nd
Business 302–Economic Statistics II	3	
Marketing 351–Marketing Principles	3	
Finance 331–Business Finance I	3	
Management 372–Operations Management I	3	
Economics 307–Managerial Economics		3
Finance 341–Risk and Insurance	3	
Management Information Systems 309–Management Information Systems II		3
Management 391–Organizational Behavior		3
Finance 442–Commercial Liability Insurance		3
Major field elective*		3
Nonbusiness elective or minor course		3

SENIOR YEAR

Courses	Semester Hours	
	1st	2nd
Finance 342–Life and Health Insurance	3	
Finance 441–Commercial Property Insurance	3	
Major field elective*	3	3
Nonbusiness elective or minor course		3
Business elective 300 level or above	3	
Business or nonbusiness elective 300 level or above		3
Business Studies 390–Business Career Planning	0	
Management 493–Management of Strategic Planning		3
Finance 542–Corporate Risk Management		3
Business elective 300 level or above	3	

* Choose from FIN 303, 334, 351, 431, 581, 445 (3 or 6 hours), or 534.

MANAGEMENT, Code 2011

The management major consists of twenty-four (24) semester hours. Students must choose an emphasis in the management curriculum. Designated courses for the emphasis areas are available in the Undergraduate Student Services Office.

JUNIOR YEAR

Courses	Semester Hours	
	1st	2nd
Business 302–Economic Statistics II	3	
Marketing 351–Marketing Principles	3	
Finance 331–Business Finance I	3	
Management 372–Operations Management I	3	
Management 371–Principles of Management	3	
Management 383–Human Resource Management		3
Economics 307–Managerial Economics		3
Management Information Systems 309–Management Information Systems II		3
Management 391–Organizational Behavior		3
Business elective 300 or above		3
Nonbusiness elective or minor course	3	

SENIOR YEAR

Courses	Semester Hours	
	1st	2nd
Management major elective	9	
Nonbusiness elective or minor course	3	
Business elective 300 or above	3	
Business Studies 390–Business Career Planning	0	
Management 493–Management of Strategic Planning		3
Management major elective		9
Business or nonbusiness elective 300 or above		3

MANAGEMENT, Code 2011

Petroleum Land Management Emphasis, Code 2028

FRESHMAN YEAR

Courses	Semester Hours	
	1st	2nd
English 101, 102–English Composition	3	3
Humanities–history or philosophy or modern language	3	3
Mathematics 267, 268 or 261, 262–Calculus for Business, Economics and Accountancy I, II or Unified Calculus and Analytic Geometry I, II	3	3
Geology 103, 221–Earth Dynamics, Mineralogy	4	4
Behavioral or social science–psychology, sociology, anthropology, or political science		3
Fine arts–art, art history, dance, music, or theater arts	3	

SOPHOMORE YEAR

Courses	Semester Hours	
	1st	2nd
Accountancy 201, 202–Principles of Accounting	3	3
Economics 202, 203–Principles of Microeconomics, Principles of Macroeconomics	3	3
English 250–Advanced Composition		3
Literature	3	
Geology 303–Structural and Tectonic Geology		3
Business 250–Legal Environment of Business		2
Management Information Systems 241	3	
Business 271–Business Communication		3
Business 230–Economic Statistics I		3

JUNIOR YEAR

Courses	Semester Hours	
	1st	2nd
Business 302–Economic Statistics II	3	
Marketing 351–Marketing Principles	3	
Finance 331–Business Finance I	3	
Management 372–Operations Management I	3	
Business Studies 301–Introduction to Petroleum Land Management	3	
Economics 307–Managerial Economics		3
Management Information Systems 309–Management Information Systems II		3
Management 391–Organizational Behavior		3
Business Studies 310–Oil and Gas Law	3	
Finance 351–Principles of Real Estate		3
Business elective 300 or above		3

SENIOR YEAR

Courses	Semester Hours	
	1st	2nd
Business Studies 311–Fundamentals of Oil and Gas Leasing	3	
Geology 314–Sedimentology and Stratigraphy		4
Petroleum land management emphasis elective– Geology 302, 305, 309, or Geological Engineering 490	3	
Business elective 300 or above	3	
Business or nonbusiness elective 300 level or above	3	
Business Studies 390–Business Career Planning	0	
Management 493–Management of Strategic Planning		3
Economics 303–Money and Banking		3
Accountancy 309–Cost Control		3
Finance 451–Real Estate Law		3

MANAGERIAL FINANCE, Code 2026

The managerial finance major consists of twenty-four (24) semester hours. In addition to the required courses of ACCY 301, FIN 303 or 534, FIN 334, FIN 431, FIN 581, and FIN 533, students must have an emphasis in one of three areas. The six (6) semester hours required for each emphasis area are as follows: corporate finance: FIN 561, Financial Statements and ACCY 303 or ACCY 309; investment analysis: FIN 351 and FIN 341; international finance: FIN 568; and ECON 510 or MKTG 552 or MGMT 595.

JUNIOR YEAR

Courses	Semester Hours	
	1st	2nd
Business 302–Economic Statistics II	3	
Marketing 351–Principles of Marketing	3	
Finance 331–Business Finance I	3	
Management 372–Operations Management I	3	
Finance 303–Money and Banking or Finance 534–Managing Financial Institutions	3	
Economics 307–Managerial Economics		3
Management Information Systems 309–Management Information Systems II		3
Management 391–Organizational Behavior		3
Finance 334–Investments		3
Accountancy 301–Administrative Accounting		3
Nonbusiness elective or minor course	3	

SENIOR YEAR

Courses	Semester Hours	
	1st	2nd
Finance 431–Business Finance II	3	
Managerial Finance Area Emphasis Courses	3	3
Nonbusiness elective or minor course	3	
Business elective 300 or above	3	
Business Studies 390–Business Career Planning	0	
Management 493–Management of Strategic Planning		3
Finance 581–Futures		3
Finance 533–Security Analysis and Portfolio Management	3	
Business elective 300 or above		3
Business or nonbusiness elective 300 or above		3

MARKETING, Code 2012

The marketing major consists of twenty-four (24) semester hours beyond the Principles of Marketing (MKTG 351) course and must include the following courses: MKTG 367, MKTG 525, MKTG 551, and MKTG 552, as well as any additional twelve (12) hours from the following courses: MKTG 494, MKTG 495, MKTG 496, MKTG 353, MKTG 354, MKTG 356, MKTG 358, MKTG 458, MKTG 462, MKTG 488, or MKTG 565.*

* Designated courses for the pharmaceutical sales area are available in the Undergraduate Student Services Office.

JUNIOR YEAR

Courses	Semester Hours	
	1st	2nd
Business 302–Economic Statistics II	3	
Marketing 351–Marketing Principles	3	
Finance 331–Business Finance I	3	
Management 372–Operations Management I	3	
Economics 307–Managerial Economics		3
Management Information Systems 309–Management Information Systems II	3	
Management 391–Organizational Behavior		3
Marketing 367–Consumer Behavior		3
Nonbusiness elective or minor course		3
Marketing elective		6

SENIOR YEAR

Courses	Semester Hours	
	1st	2nd
Marketing 525, 551, 552	3	6
Nonbusiness elective or minor course	3	
Business elective 300 or above	3	3
Business Studies 390–Business Career Planning	0	
Management 493–Management of Strategic Planning		3
Marketing elective	3	3
Business or nonbusiness elective 300 or above	3	

MARKETING COMMUNICATIONS, Code 2053

Students with a marketing communications major must have an emphasis in either a print or broadcast area, and may focus in either advertising or public relations.

FRESHMAN YEAR

Courses	Semester Hours	
	1st	2nd
English 101, 102–English Composition	3	3
Humanities–history, philosophy, or modern language	3	3
Mathematics 267 or 261–Calculus for Business, Economics, and Accountancy I or Unified Calculus and Analytic Geometry I	3	
Mathematics 268 or 262–Calculus for Business, Economics, and Accountancy II or Unified Calculus and Analytic Geometry II		3
Laboratory Science–astronomy, biology, chemistry, geology, or physics	3-4	3-4
Journalism 101, 102	3	3

SOPHOMORE YEAR

Courses	Semester Hours	
	1st	2nd
Accountancy 201, 202—Introduction to Accounting Principles	3	3
Economics 202, 203—Principles of Microeconomics, Principles of Macroeconomics	3	3
English 250–Advanced Composition	3	
Business 250–Legal Environment of Business	2	
Management Information Systems 241		3
Business 271–Business Communications		3
Business 230–Economic Statistics I	3	
Behavioral or social science–psychology, sociology, anthropology, or political science		3
Area Emphasis Course*	3	3

*Choose from JOUR 271-News Reporting and JOUR 273-Editing By Design, or JOUR 272 and 376, Broadcast News Writing and Reporting I and Television Technology.

JUNIOR YEAR

Courses	Semester Hours	
	1st	2nd
Business 302–Economic Statistics II	3	
Marketing 351–Marketing Principles	3	
Finance 331–Business Finance I	3	
Management 372–Operations Management I	3	
Marketing 353–Intro to Advertising		3
Management Information Systems 309–Management Information Systems II		3
Management 391–Organizational Behavior	3	
Economics 307–Managerial Economics		3
Marketing 367–Consumer and Market Behavior		3
Business elective 300 or above		3
Literature	3	
Area emphasis course*		3

*Choose from JOUR 383–Advertising Layout, 390–Writing for Advertising, or 391–Public Relations

SENIOR YEAR

Courses	Semester Hours	
	1st	2nd
Management 493–Management of Strategic Planning	3	
Journalism 301–History of the Mass Media	3	
Fine Arts–art, art history, dance, music, or theater arts	3	
Business Career Planning	0	
Journalism 371–Communications Law	3	
Journalism 575–Mass Media Ethics and Social Issues		3
Marketing 565–Advanced Advertising		3
Business or non-business elective 300 or above		3
Business elective 300 or above		3
Area emphasis course*	3	

* Choose from JOUR 383–Advertising Layout, 390–Writing for Advertising, or 491–Public Relations Techniques

REAL ESTATE, Code 2027

The real estate major consists of twenty-four (24) semester hours. In addition to FIN 351, FIN 353, FIN 355, FIN 553, FIN 555, FIN 534, or FIN 581, six (6) semester hours of courses will be required from the following: FIN 303, FIN 333, FIN 341, or FIN 451.

JUNIOR YEAR

Courses	Semester Hours	
	1st	2nd
Business 302–Economic Statistics II	3	
Marketing 351–Marketing Principles	3	
Finance 331–Business Finance I	3	
Management 372–Operations Management I	3	
Finance 351–Principles of Real Estate	3	
Economics 307–Managerial Economics		3
Management Information Systems 309–Management Information Systems II		3
Management 391–Organizational Behavior		3
Finance 355–Real Estate Finance and Mortgage Banking		3
Major field elective		3
Nonbusiness elective or minor course		3
Finance 353–Real Estate Valuation and Appraisal	3	

SENIOR YEAR

Courses	Semester Hours	
	1st	2nd
Finance 555–Real Estate Investment Analysis	3	
FIN 534–Managing Financial Institutions or FIN 581–Futures	3	
Nonbusiness elective or minor course	3	
Business elective 300 or above	3	3
Business Studies 390–Business Career Planning	0	
Management 493–Management of Strategic Planning		3
Finance 553–Advanced Income Appraisal		3
Major field elective		3
Business or nonbusiness elective 300 or above		3

MANAGEMENT INFORMATION SYSTEMS, Code 2076

The management information systems major consists of twenty-six (26) hours. In addition to the required management information systems and computer science courses, students must enroll in nine (9) semester hours of the following courses as restricted electives: CSCI 211, CSCI 223, CSCI 259, CSCI 323, CSCI 361, TC 201, and TC 432.

FRESHMAN YEAR

Courses	Semester Hours	
	1st	2nd
English 101, 102–English Composition	3	3
Humanities–history or philosophy or modern language	3	3
Mathematics 267 or 261–Calculus for Business, Economics, and Accountancy I or Unified Calculus and Analytic Geometry I	3	
Mathematics 268 or 262–Calculus for Business, Economics, and Accountancy II or Unified Calculus and Analytic Geometry II		3
Laboratory science–astronomy, biology, chemistry, geology, or physics	3-4	3-4
Behavioral or social science–psychology, sociology, anthropology, or political science		3
Computer Science 111, 112–Computer Programming I, II	3	3

SOPHOMORE YEAR

Courses	Semester Hours	
	1st	2nd
Accountancy 201, 202–Introduction to Accounting Principles	3	3
Economics 202, 203–Principles of Microeconomics, Principles of Macroeconomics	3	3
English 250–Advanced Composition Literature	3	3
MIS 280–Business Application Programming I	3	
Business 250–Legal Environment of Business		2
MIS 241–Management Information Systems I	3	
Business 271–Business Communication		3
Business 230–Economic Statistics I		3
Restricted elective	3	

JUNIOR YEAR

Courses	Semester Hours	
	1st	2nd
Business 302–Economic Statistics II	3	
Marketing 351–Marketing Principles	3	
Finance 331–Business Finance I	3	
Management 372–Operations Management I	3	
Management Information Systems 307	3	
Economics 307–Managerial Economics		3
MIS 309–Management Information Systems II	3	
Management 391–Organizational Behavior		3
MIS 330–Business Application Programming II		3
Business elective 300 or above		3
Fine arts–art, art history, dance, music, or theater arts		3
MIS 408–Advanced Management Information Systems		3

SENIOR YEAR

Courses	Semester Hours	
	1st	2nd
Management Information Systems 409–Applications of Database Management		3
Management Information Systems 410–Decision Support Systems	3	
Management Information Systems 405–Distributed Business Information Systems		3
Restricted elective	3	3
Business elective 300 or above	3	
Business Studies 390–Business Career Planning	0	
Management 493–Management of Strategic Planning		3
Management Information Systems 495–Applied Systems Analysis & Design	3	
Management Information Systems 419–Applications of Management Information Systems		2
Business or nonbusiness elective 300 level or above	3	

The School of Education

Tom Burnham, dean

222 Guyton Hall

PROGRAM AND FACILITIES

Purpose • Created in 1903, the School of Education is dedicated to the preparation of persons for effective leadership and service in school, home, and community. The mission of the Professional Education Unit (Department of Curriculum and Instruction and Department of Leadership and Counselor Education) is to improve the quality of life in Mississippi, the region, and the nation by having exemplary programs for the preparation and continuing education of teachers, school counselors, and educational leaders. To accomplish this mission, the unit has developed professional education programs based on essential knowledge and skills, research findings, and sound professional practice. Each professional education program is systematically and sequentially designed to reflect the philosophy and themes (goals) of its knowledge base.

Degrees Offered • The school offers the degrees of Bachelor of Arts in Elementary, Secondary, and Special Education. For information concerning graduate degrees in education, see the *Graduate School Catalog*.

Accreditation • The University's teacher education program is accredited by the National Council for Accreditation of Teacher Education (NCATE) for the preparation of elementary, special education, and secondary teachers and school service personnel, with the doctor's degree as the highest degree approved. The School of Education also holds membership in the American Association of Colleges for Teacher Education (AACTE).

Certification • Graduates from the teacher preparation program of the school meet all requirements for teaching certificates in Mississippi and in most of the other states. For students interested in teaching certificates in states other than Mississippi, adjustments in the required program may be made. Students registered in schools of the University other than the School of Education should take particular care to inquire about certification requirements. Students take the Praxis I (Pre-professional Skills Tests) prior to admission to teacher education. The Principles of Learning and Teaching Test and the specialty area test are taken during the senior year. Students are responsible for having scores sent to the appropriate state department of education.

Areas of Emphasis • On the undergraduate level, fields may be chosen in one of the following areas: elementary education, secondary education, or special education.

Clinical Experiences • Education students participate in a variety of laboratory and field experiences. Selected community facilities, agencies, and public schools are used for observation and laboratory experiences for graduate and undergraduate students.

Student Teaching Experience • Each teacher education student is required to earn 12 semester hours in supervised laboratory experiences. During student teaching or other required field experience, students are placed in more than one Professional Development School (PDS) site or North Mississippi Education Consortium (NMEC)

school and work in more than one grade level during their required field experiences. During one entire semester of the senior year, the student is assigned full time, five days a week, to a PDS or NMEC site. The experience is planned to bring the student step-by-step to full responsibility for classroom teaching through an orientation and observation period followed by a teaching period. Requests for student teaching assignments to specific sites will be honored when possible; however, final authority rests with the School of Education as to the placement of the student. Prior to the final field experience, student teachers, University site coordinators and qualified clinical instructors receive information regarding goals and responsibilities as stated in the *Handbook for Student Teaching*. During the experience the student teacher receives professional supervision and feedback from clinical instructors and University coordinators pertaining to instructional plans, classroom procedures, and interpersonal skills and dispositions.

Career Services and Placement • All juniors, seniors, and graduate students in the School of Education are encouraged to register with the University's Career Center. After completing necessary forms, candidates are invited to arrange personal conferences with counselors in the center to discuss their plans.

Financial Aid • Scholarships and loans for students in the School of Education, as well as general financial aid information, are listed in the Financial Aid chapter of this catalog.

Awards • Awards given to students in the school are:

THE FORREST W. MURPHY AWARD, established by friends and former students of the late Dr. Murphy to recognize annually the outstanding student in educational administration.

THE KAPPA DELTA PI AWARD. The Zeta Eta chapter of Kappa Delta Pi national honor society in education makes an award each semester to the graduating senior in the School of Education who stands highest in scholarship.

THE ROBERT W. PLANTS STUDENT TEACHING AWARDS are given each year to the outstanding student teacher in ELEMENTARY EDUCATION, in SPECIAL EDUCATION, and in SECONDARY EDUCATION.

DR. RAYMOND MUROF SOCIAL STUDIES TEACHING AWARD.

THE ELAINE DEAS MULLINS OUTSTANDING SECONDARY MATHEMATICS EDUCATOR AWARD.

NAN AND CECIL OLIPHANT ENGLISH EDUCATION AWARD.

FLETCHER F. VEAZEY SCIENCE EDUCATION AWARD.

CROFT INSTITUTE FOR INTERNATIONAL STUDIES FOREIGN LANGUAGE EDUCATION AWARD.

Off-campus Classes • The school, in cooperation with the Division of Continuing Education, offers a limited number of off-campus courses that meet three hours weekly for 15 weeks.

ADMISSION

General Requirements • Admission to the School of Education is governed by the general regulations stated in the section, Admission to the University. Registration, tuition, and other fees are explained in the section, Fees and Expenses.

Admission to Teacher Education • Students who wish to enter a teacher education degree program must submit a formal application for admission to teacher education during the fall semester of the junior year to the Office of the Dean of the School of Education. Requirements for admission to teacher education are as follows:

1. Completion of the 45 hour Core Curriculum. Students are responsible for submitting grades to the Office of the Dean.
2. A grade point average of 2.50 or above on all work attempted.
3. Appropriate scores on the Praxis I: Pre-Professional Skills Tests (PPST) or SAT or ACT scores (see below).
 - PPST Scores Required:
Reading-170
Writing-172
Math-169
 - Students who provide proof of an SAT composite score of at least 860 or an ACT score of at least 21 with no subtest score below 18 may be admitted to the Teacher Education Program without PPST scores. ACT or SAT scores must be from tests taken prior to admission to a college or university.
4. Completion of EDCI 351 and EDCI 352.
 - a. Must earn a grade of "C" or better.
 - b. Must show evidence of appropriate progress on the dispositions checklist.
5. A formal application for admission to teacher education must be filed in the Office of the Dean by the deadline date announced during the semester the student is enrolled in EDCI 351/352.
6. Approval by the Teacher Education Committee. Criteria for acceptance includes requirements 1-5.

Criteria for Admission to Student Teaching

Admission to Student Teaching • Applications are available on the Department of C & I Web site http://www.olemiss.edu/depts/educ_school/docs.htm. Fall student teaching (music only) applications are due the spring semester prior to fall student teaching.

In order to be admitted to student teaching, a student must meet the following requirements:

1. Admission to the Teacher Education Program.
2. A minimum grade of "C" in professional education courses.
3. Completion of 15 hours in residency at The University of Mississippi (includes off-campus centers).
4. Completion of courses taken by correspondence for admission to student teaching.
5. Evidence of professional liability insurance.

Elementary education: All professional education courses, with the exception of those required during student teaching, must be completed. Candidates who entered as freshmen during or after the fall of 2003 must have completed all courses in the General Education category.

Special education: All professional education courses, with the exception of those required during student teaching, and 15 hours of the 30 hours in the General Education area must be completed.

Secondary education: All professional education courses, with the exception of those required during student teaching, and three-fourths of the content area and related areas with a minimum grade of C must be completed.

Music education: EDCI 351, 352; MUS 422. The candidate must have completed at least three-fourths of the required course work in the teaching field with a minimum grade of C.

Advanced students in ROTC should double up on military science courses in order to be free of such courses during the semester of student teaching. These students should confer with their military department chairs in order to make the necessary arrangements.

DEGREE REQUIREMENTS

Degree Candidates • The number of semester hours required for a degree in education varies according to the program selected. Students must have a minimum 2.0 GPA on all course work attempted, as well as on all University of Mississippi course work attempted. Applicants for degrees in education must have earned at least 30 semester hours of credit in courses taken from the School of Education at The University of Mississippi.

Credits from Other Sources • With the approval of the dean, credit for work done in other institutions or by correspondence and extension may be granted. Credit from a community college is limited to one-half the total requirements for graduation in a given curriculum. Credit for correspondence and extension courses is limited to 33 hours and if the last credit is of this type, it may not exceed 6 hours.

BACHELOR OF ARTS IN EDUCATION

CURRICULUM AND INSTRUCTION-EDCI

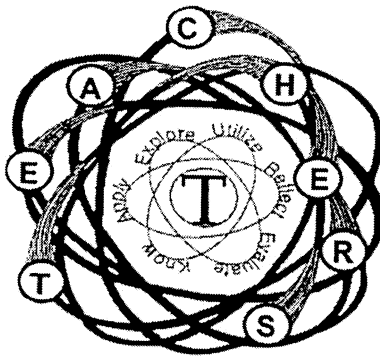
Professor Fanny Love, chair • 316 Guyton Hall • C&I home page: www.olemiss.edu/depts/educ_school/CI/cipage.html

Areas of Study. The Department of Curriculum and Instruction offers degree programs at the undergraduate level in the areas of elementary education, secondary education, and special education.

All teacher education degree programs require a Liberal Arts Core Curriculum of 45 semester hours, specified courses in general education and a professional/specialized curriculum that varies depending on the area of study. Students complete the core curriculum and the general education requirements during the first and second years and the professional/specialized curriculum in the third and fourth years of their program.

Students majoring in elementary education will complete a minimum of 129 semester hours, which includes 3 hours of action labs and 12 hours of student teaching. Each student will select two areas of concentration. Graduates are eligible for certification in Mississippi for grades K-8. Students majoring in special education will complete a minimum of 129 semester hours. Graduates are eligible for certification in Severe and Profound Disabilities and Mild-Moderate Disabilities by the state of Mississippi for grades K-12. Students majoring in secondary education will complete a minimum of 130 semester hours. The number of hours required may vary according to the program area selected. Graduates are eligible for certification in grades 7-12, biology, chemistry, physics, mathematics, social studies, English, French, Spanish, German, and Latin.

Each program is built around eight themes that embody the idea that teachers are facilitators. The following diagram illustrates the Teachers as Facilitators Model for students enrolled in a teacher education degree program.



A continuous modeling process of learning called EUREKA is used as students engage in reading, research, discussions, simulations, reflection, and application of knowledge through class and field experiences. The themes emphasized are:

- T thinking and problem solving
- E equality and respect for diversity
- A appropriate teaching strategies
- C communication and cooperation
- H human development curriculum
- E esteem, autonomy, and life-long learning
- R relevance: social and global
- S supervision, management, and guidance

**CURRICULUM FOR THE BACHELOR OF ARTS IN EDUCATION
DEGREE IN ELEMENTARY EDUCATION, SECONDARY EDUCATION,
AND SPECIAL EDUCATION**

FRESHMAN AND SOPHOMORE YEARS

Courses	Semester Hours
Core Curriculum for Teacher Education—required of all University of Mississippi undergraduate teacher education students:	
English Composition	6
Math 121—College Algebra, or higher	3
Biological science with laboratory	3-4
Physics, Astronomy, or Physical Science II with laboratory	3-4
Geology, Chemistry, or Physical Sciences I	3-4
Mathematics or science (any mathematics or science course listed above—may include Math 115)	3
Introduction to literature, American or English literature	6
Fine arts to be selected from courses in the appreciation and/or the history of art or music	3
Humanities to be selected from courses in classics, modern languages, philosophy, religion, literature, history, Southern studies, gender studies, linguistics, or African American studies	3
Fine arts	3
History (U.S., European, and/or Western Civilization preferred)	6
PSY 201—General Psychology	3
General Education courses required of all elementary education and special education majors only:	
HP 191	3
Speech	3
GEOG 101—Principles of Geography I	3
Elementary majors:	
Electives	6

Secondary education only: Please see secondary education program guide and consult with appropriate adviser for elective courses and related areas.

NOTE: Students majoring in art, music, or other liberal arts programs must meet the teacher education core requirements.

Students should consult their advisers for recommended courses satisfying the core curriculum requirement.

ELEMENTARY EDUCATION

JUNIOR YEAR

Courses	Semester Hours
MATH 245–Mathematics for Elementary Teachers I	3
MATH 246–Mathematics for Elementary Teachers II	3
ENGL 321–Advanced Composition or Writing Course	3
ARED 361–Teaching Art in the Elementary School	3
MUS 229–Music for Children	3
EDRD 350–Computer Technology and Reading Instruction	3
EDSP 308–Introduction to Special Education	3
Concentration or electives	7
Professional Education–Common Core	
EDCI 351–Foundations for Professional Growth	3
EDCI 352–Human Development and Diversity (pre- or corequisite PSY 201)	3
EDCI 353–Effective Classroom Practice (concurrent with EDCI 354)	2
EDCI 354–Introduction to Instructional Strategies (concurrent with EDCI 353)	1
	37

SENIOR YEAR

Courses	Semester Hours
Professional Education–Elementary Education Only	
EDEL 414–Integrated Instruction: A Social Constructivist Approach to Teaching Language Arts, Social Studies, and the Arts	9
EDRD 414–Reading Instruction and Diagnosis in the Elementary School	3
EDEL 303–Science in the Elementary School	3
EDEL 403–Mathematics for the Elementary School	3
EDLE 417–Action Labs in the Elementary School	3
EDEL 420–Seminar in Elementary Education	2
EDLE 464–Student Teaching: Elementary Education	12
	35

Required Areas of Concentration

Elementary education majors will select two areas of concentration from the following list.

Required hours may include core courses.

- Computers (21 semester hours)
- English (21 semester hours)
- Fine arts (21 semester hours)
- Foreign language (21 semester hours in one specific language)
- Mathematics (21 semester hours)
- Science (21 semester hours)
- Social studies (21 semester hours)
- Special education (21 semester hours)

SPECIAL EDUCATION

JUNIOR YEAR

Courses	Semester Hours
Professional Education—Common Core	
EDCI 351—Foundations for Professional Growth	3
EDCI 352—Human Development and Diversity (Prerequisite PSY 201)	3
EDCI 353—Effective Classroom Practice (Concurrent with EDCI 354)	2
EDCI 354—Introduction to Instructional Strategies (Concurrent with EDCI 353)	1
Required Area and Related Courses	
EDSP 308—Introduction to Special Education	3
EDSP 327—Nature and Needs of Students with Mild/Moderate Disabilities	3
EDSP 329—Nature and Needs of Students with Severe/Profound Disabilities	3
EDSP 335—Assessment of Exceptional Students	3
MATH 245—Math for Elem. Tchrs. I	3
MATH 246—Math for Elem. Tchrs. II	3
CD 201—Intro to Comm. Disorders	3
EDRD 350—Comp Tech & Rdg. Inst.	3
PSY 301—Developmental Psych OR PSY 311—Abnormal Psych	3
	36

SENIOR YEAR

Courses	Semester Hours
Professional Education–Special Education	
EDSP 402–Organization and Administration of Special Education	3
EDSP 405–Instructional Strategies for Students with Mild/Moderate Disabilities	3
EDSP 403–Instructional Strategies for Students with Severe/Profound Disabilities	3
EDLE 467–Student Teaching ¹	12
SW 315–Intro to Social Work OR SW 402–Child Welfare Policies	3
Electives	12
	36

¹ All coursework in special education and at least 15 hours from the related fields must be completed before student teaching.

ADD-ON AREAS OF ENDORSEMENT

Students may add endorsements to a standard teacher's certificate in the following areas by completing the required professional or specialized courses below:

Courses	Semester Hours
COMPUTER APPLICATIONS	
CSCI 103–Survey of Computing	3
CSCI 191–Office Applications or CSCI 192–Computing Applications and two of the following:	3
CSCI 111–Computer Science I	
CSCI 203–Computers and Information Processing	
CSCI 259–Programming in C + +	
EDCI 557–Computer Concepts and Applications for Educators	3
	12
COMPREHENSIVE SCHOOL HEALTH	
(May be added to elementary education, home economics, physical education, biology, or general science)	
HS 191–Personal and Community Health or HS 391–Trends and Current Topics in Health	3
HS 203–First Aid (Must certify in standard first aid and CPR)	3
FCS 325–Marriage and Family Relationships or FCS 535–Human Sexuality	3
PHCL 569–Drug Abuse Education or PHCY 201–Survey of the Use, Misuse, and Abuse of Drugs, Medicines, and Chemicals	3
	12

GIFTED EDUCATION

EDSP 585–Education of Gifted Students	3
EDSP 590–Methods and Materials for the Gifted	3
	<hr/>
	6

REMEDIAL READING

EDRD 300–Foundations of Reading Instruction	2
EDRD 317–Diagnosis and Remediation of Reading Disabilities	3
EDRD 415–Methods/Materials for Teaching Reading in Elementary Schools	3
EDRD 429–Reading in the Secondary School	3
	<hr/>
	11

SPECIAL EDUCATION

EDSP 308–Introduction to Special Education	3
EDSP 327–Nature and Needs of Students with Mild/Moderate Disabilities	3
EDSP 329–Nature and Needs of Students with Severe Disabilities	3
EDSP 335–Assessment of Exceptional Students	3
EDSP 402–Organization and Administration of Special Education	3
EDSP 403–Instructional Strategies for Students with Severe Disabilities	3
EDSP 405–Instructional Strategies for Students with Mild/Moderate Disabilities	3
	<hr/>
	21

NOTE: Programs are subject to change. Students should verify endorsements with the certification officer of the School of Education; telephone (662) 915-7063.

SPECIAL NOTE: Students pursuing certification in Mississippi for grades K-12 in the areas of art education or music education should consult the academic adviser in the teaching field and the School of Education certification officer for the specific requirements in these areas and for the recommended or required sequence of courses.

SECONDARY EDUCATION**JUNIOR YEAR**

Courses	Semester Hours
Professional Education—Common Core	
EDCI 351—Foundations for Professional Growth	3
EDCI 352—Human Development and Diversity (Prerequisite PSY 201)	3
EDCI 353—Effective Classroom Practice (Concurrent with EDCI 354)	2
EDCI 354—Introduction to Instructional Strategies (Concurrent with EDCI 353)	1
Required and elective hours in discipline or general electives*	22-27
Required Area and Related Courses	
EDSP 308—Introduction to Special Education	3
	31-36

SENIOR YEAR

Courses	Semester Hours
Professional Education—Secondary/Special Subjects	
FALL	
EDSE 400—Secondary Block	3
EDSE 44__—Special Methods I (442,443,445,446, or 447)	3
Required or elective hours in discipline or general electives	6-9
SPRING	
EDSE 45__—Special Methods II (452, 453, 455, 456, or 457)	2
EDLE 48__—Student Teaching (in discipline: 482, 483, 485, 486, or 487)	12
	26-29

*Students should consult their advisers for the recommended or required sequence of courses.

The School of Engineering

Kai-Fong Lee, dean

James G. Vaughan, associate dean

101 Carrier Hall

PROGRAM AND FACILITIES

History • Founded in 1900, the School of Engineering is the third oldest school of the University and is the oldest engineering school in the state. Instruction in engineering dates from 1854 when a Department of Engineering was established by the Board of Trustees to complement a strong program in the natural sciences.

Mission Statement • The School of Engineering at The University of Mississippi strives continuously to improve the quality of teaching, research, and service. In so doing, the school

1. prepares students with a broad-based education for entering the engineering profession, for advanced studies, and for careers in research;
2. develops in students leadership skills, communication and creative thinking skills, global perspective, and commitment to lifelong learning; and
3. provides practicing professionals with continuing education opportunities.

The school capitalizes on its engineering science tradition, its low student-to-faculty ratio, and the liberal arts environment of The University of Mississippi to give our graduates the abilities to adapt to the rapid changes in engineering and to give our graduates the interdisciplinary background and capacity for innovation that sets them apart from the graduates of larger engineering schools.

Statement of Goals •

1. To provide an environment conducive to learning, teaching, and research. This includes a diverse and multicultural first-rate faculty, staff, and students and state-of-the-art facilities.
2. To provide a top-quality ABET accredited undergraduate program suitable for the 21st century.
3. To foster a vibrant graduate program and to perform quality research in line with national trends and achieve national recognition in selected areas.
4. To establish strong partnerships and lasting relationships with industry, government, professional societies, alumni, and academia.
5. To make significant contribution to the technological and economic development of the state of Mississippi and the region through education, research, and service.
6. To increase the visibility of the School of Engineering locally and nationally.

Programs and Degrees • The programs of study offered by the School of Engineering stress the engineering sciences and are based on the fundamental concepts of natural science and mathematics. These programs serve the state and the nation in five basic engineering fields: chemical, civil, electrical, geological, and mechanical as well as the fields of computer science and telecommunications.

The four-year Bachelor of Science curricula in chemical, civil, electrical, geological, and mechanical engineering are designed to prepare students for the practice of the profession of engineering. Each of these Bachelor of Science curricula is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone: (410) 347-7700. The Bachelor of Science in Computer Science is designed to give students a thorough education in contemporary computer science. This program in computer science is accredited by the Computing Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone: (410) 347-7700.

The four-year Bachelor of Engineering curricula are extremely broad and are designed to provide students the opportunity to gain an understanding of engineering, scientific, and technical knowledge that will enhance their career objectives in such areas as, for example, engineering science, medicine, law, telecommunications, military, management, and sales. The curricula are individually designed to meet each student's needs but in general provide three paths of study: (1) a pre-professional path that stresses technology as well as breadth of education, (2) a terminal path that provides a broad education with emphasis on science and technology, and (3) a telecommunications path that stresses science and technology while providing a foundation knowledge in the rapidly expanding field of telecommunications.

The School of Engineering offers through its graduate program the Master of Science and Doctor of Philosophy degrees in engineering science. Students interested in these degrees should consult the Graduate School catalog.

Accreditation • The Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone: (410) 347-7700, has accredited the Bachelor of Science curricula in chemical, civil, electrical, geological, and mechanical engineering. The Bachelor of Science in Computer Science degree is accredited by the Computing Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone: (410) 347-7700. The school and its component departments are members of the Engineering College Administrative Council and the Engineering College Research Council. The school has student chapters of the American Institute of Aeronautics and Astronautics, the American Society of Civil Engineers, the American Institute of Chemical Engineers, the American Society of Mechanical Engineers, the Association for Computing Machinery, the Institute of Electrical and Electronic Engineers, Tau Beta Pi, the engineering national honorary fraternity, Association of Engineering Geologists, National Society of Professional Engineers, National Society of Black Engineers, and the Institute of Transportation Engineers.

Buildings • The School of Engineering occupies quarters in Carrier Hall, built for the school and given to the University by the late Mr. and Mrs. Robert M. Carrier, and in Frank A. Anderson Hall. Carrier Hall and Anderson Hall both are air conditioned with classrooms sound-insulated from the laboratories and have been designed in consultation with outstanding engineers to accomplish progressive instruction and research. Additional facilities are housed in the Engineering Sciences Annex, Weir Hall, and Old Chemistry Building.

Research and Experimentation • The school's faculty is actively involved in independent research and is eager to cooperate with industrial and engineering organizations in the investigation and solution of technical problems. Such services as may be rendered by the engineering laboratories are available to industry and the

engineering profession. The University of Mississippi Center of Computing and Information Systems, housed in Powers Hall, is available to the state's agencies and to industry for investigation in the field of electronic data processing, X-ray diffraction, scanning electron microscopy, energy dispersive spectroscopy, materials testing systems, and microwave antenna laboratories are housed in Carrier Hall, the Engineering Sciences Annex, and Old Chemistry Building.

Mississippi Mineral Resources Institute • The purpose of the Mississippi Mineral Resources Institute (MMRI) is to promote the use of the state's mineral resources. This purpose is achieved by providing mineral-related research opportunities. The disciplines of engineering are essential to finding answers to the many problems confronting the industrial use of minerals. The purpose also is advanced in that the research serves to train and educate faculty and students. The end results of many of the MMRI research grants have been master's theses. The institute also works with other schools within the University, other institutions of higher learning, and state agencies. Within the framework of MMRI, Congress approved the Marine Minerals Technology Center (MMTC), a national center to study and characterize offshore minerals. The research conducted by MMTC affords opportunities for graduate students. The two research vessels maintained by MMTC in Biloxi provide the means for the research and hands-on experience. The research involves electronic surveys (seismic, etc.) as well as drill sampling.

National Center for Computational Hydrosience and Engineering • The center was established to achieve three major objectives: research, education, and services. Basic and applied research in computational modeling of hydrodynamic, hydraulic, water resources, environmental engineering, and sediment transport problems, as well as computational methodologies are being pursued. Graduate degree programs leading to an M.S. and Ph.D. are being offered. Short courses and workshops to equip the professionals with the newly developed research and design tools have been conducted. The center also has served governmental agencies, other academic institutions, professional societies, and international organizations to find the solutions to hydrosience and engineering problems, and to advance the forefront of science and engineering methodology in computational modeling of hydrosystems.

Placement Service • Through the Career Center, the University offers assistance to graduating students, alumni, and students who leave the University prior to graduation in finding suitable employment. Conferences between agents of prospective employers, students, and members of the engineering faculty are arranged through this office.

Cooperative Education Program • Qualified students in the school may participate in the Cooperative Education Program. Through the alternating pattern of work experience and classroom study, the co-op program helps many students find greater meaning in their career education process. Following completion of the freshman year, students desiring to co-op may alternate work and study periods for the next three years while completing the sophomore and junior academic work. The last two semesters (senior year) of class work should be taken consecutively. Transfer students may participate in the program; however, the completion of a minimum of two work periods for any student is required.

ENTERING THE SCHOOL OF ENGINEERING

A. Admission

1. General criteria and procedures for admitting students

General requirements for admission to the University of Mississippi are published in the *Undergraduate Catalog*. Admission requirements to the School of Engineering, which encompass and exceed these requirements, are given below:

a. Admission of Freshmen • An applicant to the freshman class in the School of Engineering must submit the following:

(1) The applicant's academic record from an approved secondary school, which includes at least the following units:

SUBJECT	MINIMUM UNITS
English	4
Mathematics	4
Natural science	3
Social science	3
Advanced electives, including Foreign language (one language)	2
Computer applications	0.5
Total (secondary school units)	16.5

Note:

English must have substantial writing components.

Mathematics must include Algebra I, geometry, Algebra II, and Trigonometry.

Natural science must be selected from biology, chemistry, and physics, with at least one unit laboratory-based.

Social sciences must include U. S. history and American government.

(2) All students completing the University-required College Preparatory Curriculum (CPC) with a minimum of 3.5 high school GPA on the CPC.

(3) All students completing the CPC with a minimum of 3.0 high school GPA on the CPC and a score of 18 or higher on the ACT (composite).

(4) All students completing the CPC with a minimum of 2.0 high school GPA on the CPC and a score of 20 or higher on the ACT (composite).

b. Admission of Transfer Students • An overall "C" average in coursework taken at other approved colleges is required for transfer into the School of Engineering. In unusual cases, the rule may be waived with the approval of the appropriate department chair and the dean.

c. Admission of International Students • International undergraduate applicants must have received a high school diploma with a "B" average or better and have completed a minimum of 12 years of primary and secondary education. Those prospective students whose native language is other than English must submit evidence of ability in English by a minimum TOEFL score of 550 (paper) or 213 (computer-based). Those students transferring from other colleges and universities must have an overall B average or better on all courses taken.

2. Policy of the institution in admitting students with conditions

a. Freshman applicants deficient in the above secondary school requirements may be admitted with the provision that these deficiencies be removed during the

first year of enrollment. It should be noted that such deficiencies may necessitate additional time required for a candidate to obtain a degree in engineering. Students who fail to meet the requirements shown above will not be admitted to the School of Engineering except through approval of a petition, directed to the dean of the School of Engineering, to be reviewed by an Engineering Admissions Committee. Such a petition should be based on evidence of superior promise, especially in the areas of mathematics and the physical sciences.

- b. Transfer students who do not meet the minimum overall 2.0 GPA requirement may petition and be admitted to the University and the School of Engineering on probation. The demonstrated performance and capabilities in mathematics, natural sciences, and engineering subject matter will be determining factors in the approval of their petition. To remove the probation status and be admitted in good standing, they must enroll in and complete at least twelve (12) semester hours of course work with a 2.0 GPA during their first semester at the University.
- c. International students who fail to achieve a TOEFL score of 550 (paper) or 213 (computer-based) may apply for admission to The University of Mississippi Intensive English Program. This program is designed for students at the intermediate and advanced levels of English proficiency and not for beginners. Applicants may be admitted to the Intensive English Program in one of the following categories:
 - (1) Admission to an academic program with the provision that the intensive English course first be successfully completed with acceptable TOEFL results.
 - (2) Admission to the Intensive English Program (IEP) with a review of admission to the academic program after successful completion of English courses. Successful completion of IEP does not guarantee admission to The University of Mississippi.

3. Policy of Engineering School regarding admission to advanced placement

- a. Advanced placement for freshmen and 3 semester hours of credit are awarded in American history, art, biology, calculus, chemistry, classics, computer science, English (literature/composition), European history, French, German, mathematics, music, political science, physics, and Spanish to students who participate in the College Entrance Examination Board (CEEB) Advanced Placement Program offered through their high schools, and who earn scores of three or higher on the final examinations.
- b. International undergraduates who have completed three or more GCE "A" levels in academic subjects or 15 or more hours of university level academic courses with a "B" average may be awarded transfer credit and will not be required to take the ACT or SAT.
- c. The assistant dean of engineering and the respective engineering department chairs working in consultation are responsible for the evaluation and acceptance of course credit earned at either this institution or elsewhere by students transferring into programs in the School of Engineering. Information relative to course content is obtained from catalog descriptions, curriculum, and course syllabi, and personal interviews with transferring students. The director of international programs is consulted as to the quality and content of international programs in which students have participated. Particular scrutiny is given to the quality and content of engineering courses that students present for possible transfer.

4. Special admission requirements for entry into the upper division

There are no special admission requirements for entry into the "upper division." A formal upper-division distinction for engineering programs is not made. Entry into

individual engineering courses (lower or upper-level) is based on satisfactory completion of prerequisite mathematics, physical science, and other foundation courses.

5. Policies regarding admission of transfer students to the engineering program

- a. An overall "C" average in course work taken at other approved colleges and universities is required for transfer into the School of Engineering. In unusual cases, the rule may be waived with the approval of the appropriate department chair and dean of engineering.
- b. International students transferring from other colleges and universities must have an overall "B" average or better in all courses taken.
- c. Credits of students transferring from approved U.S. colleges are accepted at their original values for credit toward a degree in engineering, subject to the condition that the last grade received in each subject is "C" or better. The Office of Admissions and the Office of the Registrar provide each transfer student with an evaluation of the credits acceptable to the University. The dean of the School of Engineering informs the student the extent to which such credits apply toward the degree sought. Acceptance of junior college work is limited to one-half the total requirements for graduation in a given four-year curriculum. Course work completed at international schools, colleges, and universities is carefully evaluated as to its quality and content for equivalency to University of Mississippi courses. Credit is given and recorded on the student's academic record for such equivalent University courses with a grade of "Z."
- d. The School of Engineering works very closely with community/junior colleges in the state to ensure that articulation problems are eliminated so that students may transfer with a maximum of credit and that content of required courses taken is equivalent to University of Mississippi courses.
- e. The School of Engineering currently has a Three-Two Transfer Program in effect with Jackson State University and Tougaloo College. These schools have predominantly black student bodies and do not have engineering programs.

B. Expenses and Financial Aid

Fees • Engineering students are subject to fees listed in the Fees and Expenses section of this catalog.

Financial Aid • Scholarships and loan funds available to engineering students may be found in the Financial Aid section of this catalog. All applications for financial aid should be addressed to the Director of Financial Aid, The University of Mississippi, University, Mississippi 38677, with a copy also being sent to the dean of the Engineering School at the same address.

Awards and Prizes • In addition to awards available to outstanding students generally, the following scholastic honors and prizes are offered to engineering students.

AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS. Two awards are presented to student members by the American Institute of Aeronautics and Astronautics. The first one, the Outstanding Achievement Award, is presented to a student member whose performance in academic activities as well as student branch activities has been outstanding. The second one, the Lecture Award, is presented to a student member who has presented the best technical paper at a student branch meeting during the year. These recognitions are expressed in the form of award certificates as well as honoraria, which are one year's prepaid associate membership in the American Institute of Aeronautics and Astronautics.

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS AWARD. An award is presented each year by the American Institute of Chemical Engineers to the junior student in chemical engineering with the highest scholastic rating during the freshman and sophomore years. This recognition is expressed in the form of a certificate, a two-year subscription to the AIChE Journal and a membership pin.

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, MEMPHIS SECTION, AWARD. An award is presented each year by the Memphis Section, American Institute of Chemical Engineers, jointly with the Department of Chemical Engineering, to the senior student in chemical engineering judged to be the most outstanding in scholastic attainment and in leadership. This award consists of a certificate and an associate membership for one year in the institute. The name of the recipient is engraved on a plaque in the department office.

AMERICAN INSTITUTE OF CHEMISTS AWARD. An award presented each year by the American Institute of Chemists to the one graduating senior who, on the basis of a demonstrated record of leadership ability, character, and scholastic achievement, has shown the potential for advancement of the chemical and chemical engineering profession.

AMERICAN SOCIETY OF CIVIL ENGINEERS, MISSISSIPPI SECTION AWARD. The Mississippi Section of the American Society of Civil Engineers awards annually a certificate of merit and a prize to the outstanding senior in the student chapter of the American Society of Civil Engineers. The prize consists of engineering handbooks, a calculator, or other engineering equipment. The award is made to the student who, in the opinion of the civil engineering faculty, best exemplifies the qualities of the successful engineer, including scholarship, character, and general ability.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS AWARD. The student chapter of the American Society of Mechanical Engineers awards a prize to the senior majoring in mechanical engineering who is distinguished by character, ability, and scholastic standing.

CHI EPSILON OUTSTANDING CIVIL ENGINEERING FRESHMAN AWARD. This award is given to the freshman civil engineering student with the highest grade-point average. To qualify, a student must be making reasonable progress toward a degree in civil engineering and must possess a respectable grade-point average. The award consists of a plaque and a cash award; the student's name will be engraved on a permanent plaque displayed in a prominent place in the office of the Department of Civil Engineering.

CHI EPSILON CIVIL ENGINEERING SENIOR SCHOLAR AWARD. This award is given to the senior civil engineering student having the highest grade-point average. The award consists of a plaque and a cash award; the student's name will be engraved on a permanent plaque displayed in a prominent place in the office of the Department of Civil Engineering.

DAVID W. ARNOLD ENGINEERING AWARD. This award is established by The University of Mississippi Foundation, with funds provided by Mississippi Chemical Corporation. It is awarded to a graduating senior in the School of Engineering based on scholarship, leadership, creativity, character, judgment, intelligence, and service. It consists of a cash award and a plaque.

ETA KAPPA NU OUTSTANDING ELECTRICAL ENGINEERING STUDENT AWARD. This award is presented each year by the Eta Kappa Nu Electrical Engineering Honor Society to the junior or senior electrical engineering major with the highest scholastic standing.

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS AWARD. The institute makes two awards annually to student members of The University of Mississippi branch. One, the Outstanding Student Member award, is made to the student who has made the greatest contribution to the activities of the branch and to the objectives of the Institute, and consists of a certificate presented by the institute. The other award goes to the winner of an annual prize paper competition held by the student branch, and is an expense-paid trip to the annual regional student meeting of the institute.

JOHN FOX AWARD. This award is given to honor Dr. Fox, chair emeritus and professor emeritus of mechanical engineering. It is presented annually to a junior or senior majoring in mechanical engineering selected by the entire junior and senior classes and is based on character, leadership, and scholarship.

MISSISSIPPI ENGINEERING SOCIETY AWARD. The society recognizes each year the outstanding senior in the school with the presentation of a plaque and certificate at its annual meeting. The student's name is engraved on a plaque in the lobby of Carrier Hall. The award is made on the basis of scholarship, integrity, activities, and contribution to the program.

SIGMA GAMMA EPSILON AWARD. The Department of Geology and Geological Engineering awards a prize to the outstanding senior majoring in geology or geological engineering. The award is made on the bases of character, ability, and scholastic standing.

C. Student Organizations

TAU BETA PI ASSOCIATION. The Mississippi Beta Chapter of Tau Beta Pi, the national engineering honorary fraternity founded in 1885, is located at the University. Membership is by invitation and is restricted to juniors and seniors of all departments of engineering who are near the top of their class scholastically, and who have shown high professional awareness by their leadership in professional societies and service organizations. This association participates in tutoring projects, promotion of information on scholarship opportunities, Engineering Day activities, and other service endeavors. Its purpose is to encourage scholarship and a professional attitude among all engineering students.

CHI EPSILON. A local chapter of Chi Epsilon, the national scholastic civil engineering society, was authorized and established at the University in 1937, the first to be authorized in the Southeastern states. Membership is limited to the highest-ranking civil engineering students of the junior and senior classes, graduate students, alumni, faculty and practicing civil engineers.

ETA KAPPA NU. This honor society of electrical engineering students is established at the University to encourage scholarship, leadership, and responsibility to society and to promote professional development. Members are selected from top-ranking juniors, seniors, graduate students, faculty, and prominent alumni.

SIGMA GAMMA EPSILON. This is a national college honor society in the earth sciences founded in 1915. Gamma Mu chapter was authorized and established at the University in 1972. The society has for its objectives the scholastic and scientific advancement of its members and the extension of the relations of friendship and assistance among universities with recognized standing. Membership is by invitation and is restricted to junior, senior, and graduate student majors, faculty, and persons pre-eminent in the fields of earth science.

UPSILON PI EPSILON. The local chapter of this national honor society was chartered in 1989. UPE is the only national honor society in the computing sciences. Membership consists of outstanding undergraduate and graduate students who are majoring in computer science. Students are nominated for membership based on their scholarship and professionalism. Members may compete for national UPE scholarship awards.

STUDENT BRANCH OF THE AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS. The institute has recognized the curriculum of engineering and sciences at the University by the establishment of an AIAA Student Branch. Membership is open to all students interested in the advancement of sciences in fields related to aeronautics and astronautics. The branch serves as the students' link with professionals in these fields. Its activities include lectures, films, videos, field trips, papers, presentations at regional and national conferences, project contests, and social functions.

STUDENT CHAPTER OF THE AMERICAN INSTITUTE OF CHEMICAL ENGINEERS. This society is organized by chemical engineering students to foster interest in chemical engineering and to develop professional consciousness through personal contact with fellow students and the faculty. The society meets once a month. The programs include lectures by students and members of the faculty, addresses by practicing engineers, films and videos dealing with chemical engineering topics, and social functions.

STUDENT CHAPTER OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS. The school is recognized by the American Society of Civil Engineers, and a student chapter of that society is located at the University. The chapter meets every two weeks. Programs consist of addresses by members of the engineering profession, technical papers prepared by students, and audiovisuals of engineering interest.

STUDENT CHAPTER OF THE ASSOCIATION FOR COMPUTING MACHINERY. The association is a major professional organization in the field of computing. Membership in the local student chapter is open to all students with an interest in computers. The major activities of this group include field trips, invited lecturers, and social functions.

STUDENT BRANCH OF THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS. The institute has recognized the electrical engineering curriculum at the University by establishing an IEEE student branch. Membership is open to all students interested in electrical engineering and related fields. The branch promotes professional development and interest in electrical engineering. Programs presented at monthly meetings include addresses by students, faculty, and other members of the profession, films, and other activities.

UNIVERSITY OF MISSISSIPPI GEOLOGICAL SOCIETY. The society (UMGS) draws its members from students majoring in the earth sciences. It meets once a month, and its purpose is to promote professional development and contact with practicing geologists. Its activities include field trips, technical programs, geological publications, and social functions.

STUDENT CHAPTER OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS. The students majoring in mechanical engineering may join the student chapter of ASME, which serves to promote professional development and contact with practicing mechanical engineers. Field trips, special programs, and social functions are the major activities of this group. The society meets once each month.

UPSILON PI EPSILON. The local chapter of this national honor society was chartered in 1989. UPE is the only national honor society in the computing sciences. Membership consists of outstanding undergraduate and graduate students who are majoring in computer science. Students are nominated for membership based on their scholarship and professionalism. Members may compete for national UPE scholarship awards.

INSTITUTE OF TRANSPORTATION ENGINEERS. The ITE student chapter at The University of Mississippi was founded by civil engineering students in April 2001. It is affiliated with the ITE Deep South Section and ITE Southern District. The chapter charter and certificate of recognition were presented on December 6, 2001. The chapter meets monthly and hosts frequent guest lectures on transportation topics. The student members compete for ITE scholarships and awards for scientific paper and annual report.

NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS. Adviser: Dr. C. Mullen

NATIONAL SOCIETY OF BLACK ENGINEERS. NSBE was founded at a national conference held at Purdue University in April of 1975. Today, it is the largest student-managed organization in the United States. NSBE is made up of more than 270 local chapters on college and university campuses nationwide, 75 alumni extension chapters and 75 pre-college chapters. NSBE's primary mission is "to increase the number of culturally responsible Black engineers who excel academically, succeed professionally, and positively impact the community."

STUDENT CHAPTER OF THE SOCIETY OF WOMEN ENGINEERS. The Society of Women Engineers represents student and professional women in all engineering and technical fields. The chapter informs women students and the general public of the qualifications and achievements of women engineers and the opportunities open to them, and assists members in completing their degree program successfully. The chapter meets monthly with professional and social activities.

SOCIETY OF AMERICAN MILITARY ENGINEERS. Founded in 1920, the Society of American Military Engineers (SAME) is the only national nonprofit organization uniting professional engineers and engineering-related career fields from industry and government. Sponsored through the Office of the Dean, our goal is to engage students in residence, with the active military, university ROTC programs, and federal government engineers with those in private careers for the purpose of improving the engineering potential of the United States.

D. Academic Requirements

1. **General Requirements** • Class attendance and requirements pertaining to minimum scholastic standards for continued University enrollment are given in the Academic Regulations chapter of this catalog.
2. **Probation** • A student on academic probation enrolled in the school must repeat, when he or she is next offered, any required courses in which a grade of D or F was received before including new course work in the program of study. Unless there are extenuating circumstances, a student on probation who does not achieve a grade-point average of 2.00 or better in the work attempted during the two semesters following the date of probation will be denied further registration in the school.
3. **Honor System** • The purpose of the Engineering School honor system is to inculcate in each student the highest standard of personal integrity and professional responsibility. The honor system makes student honesty both in and out of the classroom the responsibility of the student body. Each year an Honor Council is approved by the ESB executive council to maintain the honor system. This council indoctrinates new students, receives reports of infractions, determines innocence or guilt, and recommends disciplinary action to the dean of the Engineering School.
4. **Adviser** • Each entering freshman and transfer student is assigned to a member of the Engineering School faculty who acts as the student's adviser. Students who express a preference for one of the engineering departments as a major field are given an adviser from this department. Those who have not yet reached a decision as to a major are assigned an adviser by the Office of the Dean of Engineering. Each student is scheduled for regular conferences with the adviser. In addition, students are encouraged to confer with their advisers or other faculty members as the need arises at times other than the regularly scheduled conferences. A curriculum check-off sheet is kept by the department in which the student is majoring to assure that students are completing the appropriate required courses in the proper prerequisite order to meet graduation requirements that have been previously specified to meet EAC/ABET, the Institutions of Higher Learning (IHL), University, and other criteria.
5. **Electives** • Most curricula in the school allow for the selection of certain technical and nontechnical courses. Approval of the student's department chair/adviser is required in the selection of all electives.
6. **Social Sciences and Humanities/Fine Arts Electives** • The general education requirements of the undergraduate degree programs of the School of Engineering are consistent with The University of Mississippi's tradition of educating engineering leaders through the school's strong interaction with the University's liberal arts programs. Further, these requirements are established to fulfill the school's published mission of preparing "students with a broad-based education" intended to develop "leadership skills" and "communication skills."

The general education requirements consist of 18 credits as described below, but students should check with the department to learn the specific requirements for an individual program:

Fifteen credits of liberal arts

Students must complete at least 15 semester hours consisting of social sciences, humanities, and fine arts course work, with at least 3 semester hours from each of those areas. For the purpose of these requirements, social science will include anthropology, economics, Latin American studies, political science, psychology, and sociology; humanities will include classics, English, history, modern languages (200 level and above), philosophy, religion, and Southern studies; and fine arts will

include courses in the history, appreciation, and criticism of art, dance, music, and theatre arts. (Courses emphasizing the enhancement of skills and performance are not acceptable.) Honors, African American studies, and gender studies courses may be used to meet these requirements as appropriate, depending upon their topical content.

Three credits of additional general education course work

Students must complete an additional 3 semester hours of course work beyond the 15 hours required above. These additional 3 hours are to be composed of any additional fine arts, humanities, or social science course work (as defined above) or any combination of credits from the courses listed below:

Course	Course Title	Credits
AS 301	Air Force Leadership Studies I	3
AS 302	Air Force Leadership Studies II	3
BUS 250	Legal Environment of Business	2
BUS 271	Business Communication	3
EDLD 110	Chancellor's Leadership Class I	1
EDLD 111	Chancellor's Leadership Class II	1
EDLD 120	Introduction to Leadership Studies	3
EDLD 220	Foundations of Leadership Studies	3
ENGR 400	Leadership and Professionalism in Engineering	1
MGMT 371	Principles of Management	3
MSC 102	Military Science I: Basic Leadership & Management	2
NSC 211	Naval Leadership and Management I	2
SPC 105	Business/Professional Speech	3

7. Technical Electives • In some programs students are allowed to choose a coherent group of courses from appropriate areas to permit the student to pursue particular topics in more depth than provided by required courses or to complement the student's major area of study. Selection of these courses should be made in consultation with and approved by the student's department chair/adviser.

8. Basic Curriculum • The curriculum below is recommended for all freshmen engineering students who have not decided upon a major field of study. The first-year course requirements in the various major degree areas differ from this curriculum only in minor aspects and subsequent schedules may be modified to include any courses missed. Students without sufficient preparation, as shown by results of previous work and aptitude tests, to enter the unified calculus and general chemistry courses will be assigned alternatives such as Mathematics 125 (college algebra/trigonometry) and Chemistry 101 by their advisers.³ Courses identified by an asterisk (*) may be taken by transfer students immediately upon enrolling in the School of Engineering if these courses were not available at the student's previous college.

E. Requirements for Graduation

Please note that the one-half year definition being used for all programs submitted for evaluation is 16 semester hours.

³ These courses may not be counted toward a degree in the School of Engineering.

1. Certification Process

- a. **Orientation** • Graduation requirements for each program offered by the School of Engineering are described in detail in the *Undergraduate Catalog of the University*. At an orientation session (which each new student is required to attend prior to or at the time of the first registration), these requirements are explained by the assistant dean of engineering. Each student is given a copy of his/her chosen curriculum and counseled as to the courses in which to enroll for the first semester of attendance. (See "Typical First Semester Course Schedules" on the following pages.)
- b. **Application for Degree** • Early in the final semester prior to completing degree requirements for a particular degree each student is required to make formal application for that degree. He/she contacts the Office of the Dean of Engineering and is given instructions and the necessary forms for making application for the degree for which qualified. (See "Procedure for Applying of Degree" on the following pages.) The "Application for Degree" form is carefully checked by the staff of the Office of the Dean for completeness and accuracy. It is then forwarded to the appropriate department chair for checking and approval as to meeting the requirements for the particular degree for which the student is making application. When courses for the final semester are completed and grades are submitted, the assistant dean of engineering makes the final check and computations to assure that the student has met all graduation requirements. The dean of engineering then checks the assistant dean's evaluation and certifies that the student has met all requirements, and the student's name is submitted to the Office of the Registrar for the granting of the diploma.

2. Type of School Term and Credit Hour

The University operates on the "semester" system. Each is sixteen (16) weeks in length, with a minimum of fifteen (15) complete weeks dedicated to classroom instruction. A semester hour is defined as the unit of credit value of work involved in attending lectures or recitations for one class hour a week for one semester or upon laboratory work varying from two to four hours a week for one semester.

3. Programs Offered in Other Alternative Modes

All programs offered by the School of Engineering are regular (full-time day) programs.

4. Grade-point Average Required for Graduation

- a. **Minimum University Grade Requirement** • For the awarding of a bachelor's degree from any school or college in the University, a 2.00 grade-point average must be earned for all work submitted in fulfillment of degree requirements. In addition, the student must earn a minimum GPA of 2.00 on all course work attempted at The University of Mississippi. Finally, the student must have a minimum 2.00 GPA on all college work attempted at any institution of higher learning.
- b. **Engineering Requirements** • In addition to the number of semester hours of prescribed courses, candidates for degrees must have earned a grade-point average of 2.00, on a 4.00 system, on all courses submitted in fulfillment of degree requirements, in all engineering courses and in the designated major department courses. The faculty reserves the right to change at any time the required courses and semester-hours credit thereof or to prescribe additional requirements for those who have failed a number of courses. Bare completion of minimum requirements shall not be considered as qualifying a candidate for a degree in engineering.

F. Record of Graduates

Procedures and techniques used to obtain information regarding positions initially accepted by graduates:

Different procedures are employed by the different departments in obtaining this information. The department of chemical engineering uses a straightforward, one-page questionnaire for this purpose. The departments of civil and mechanical engineering write a letter to recent graduates asking them to provide information on their employer (or graduate school), as well as on their educational experience in the School of Engineering.

How data are compiled concerning the professional advancement of graduates:

The department of civil engineering has developed a one-page employer questionnaire to be sent to the graduate's employer and completed by the graduate's immediate supervisor. The chemical engineering questionnaire described above also provides some data of this nature for that program. Also, the response to the letters written to civil and mechanical engineering, described above, provides some data on professional advancement for graduates of those programs.

How the opinions of graduates regarding their educational program are taken into account:

The University of Mississippi Graduating Student Survey is administered at each graduation period (August, December, and May). Students are given survey forms when they pick up graduation applications and asked to submit the completed form. Results are compiled and forwarded to the different departments annually. The survey is comprehensive, having a scale of opinions from strongly agree to strongly disagree and from very satisfied to very unsatisfied, covering a broad range of educational program concerns.

The concerns and opinions of students graduating from the different engineering programs that are highlighted by the above survey are considered by the faculties an important input into the continuing process of curriculum assessment. Additionally, input from graduates through their response to questionnaires and letters of inquiry is factored into the active assessment policies of the individual departments. Also, the chairs of the departments of Electrical and Mechanical Engineering conduct informal exit interviews with graduating seniors to solicit suggestions for undergraduate program improvements.

Placement and salary surveys:

The University Office of Career Service and Placement maintains records on all graduates. These records include employer, and in some cases, salary information. Some of the engineering departments have developed salary surveys in order to establish a database, primarily for undergraduate student recruitment purposes.

Fundamentals of Engineering Examinations:

The departments of chemical, civil, electrical, and geological engineering require all students in those programs to take the Fundamentals of Engineering examination prior to the awarding of the baccalaureate degree, but they are not required to pass it. The department of mechanical engineering does not have this requirement, but strongly encourages the mechanical engineering students to take the examination. Categorical results from these examinations are used to assess the program curricula with regard to meeting EAC/ABET standards.

Performance on Graduate Record Examinations:

There is presently no vehicle in place for determining the performance of graduates of the different engineering programs on Graduate Record Examinations (GRE). For graduates who attend graduate school at The University of Mississippi, this information is directly available, since both general and subject examinations are required. However, due to the widely ranging requirements of the different graduate schools throughout the country with regard to the GRE, this information is not readily obtainable.

Admissions records of graduates entering postgraduate study:

Accurate records are kept on those graduates of all the engineering programs who enroll in graduate school, by each of the individual departments. Information with regard to applications that are rejected, however, is not available and cannot be obtained except in cases where the graduate volunteers it.

FIRST YEAR: 33 SEMESTER HOURS

Courses	Semester Hours	
	1st	2nd
English 101, 102–English Composition	3	3
Mathematics 261, 262–Unified Calculus and Analytic Geometry	3	3
Chemistry 105, 106, 115, 116–General Chemistry; Laboratory	4	4
Computer Science 251–Programming for Engineering and Sciences		3
Socio-humanistic/fine arts electives	3	6

BACHELOR OF SCIENCE

Basic Degree Requirements • All of the curricula of the School of Engineering leading to a Bachelor of Science degree are four-year curricula. The following tables list the curricula requirements for the degrees of Bachelor of Science in Chemical Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Computer Science, Bachelor of Science in Electrical Engineering, Bachelor of Science in Geological Engineering, and Bachelor of Science in Mechanical Engineering. By proper selection of electives, a student also can emphasize certain other optional fields.

Bachelor of Science in Chemical Engineering • The undergraduate curriculum in chemical engineering provides the student with a fundamental knowledge of chemical engineering science to prepare graduates for a variety of careers in industry and government, or for advanced study in engineering, business or professional school.

Program Goals • The goals of the Department are consistent with and an outgrowth of the academic focus and goals of the University as a whole. Graduates from the Department of Chemical Engineering of the University of Mississippi are:

1. Globally competitive in the professional world.
2. Prepared for success in their chosen career or in continued education.
3. Equipped with flexible problem solving skills to address complex issues in society.

Program Objectives • Graduates of the Chemical Engineering program can:

1. Apply basic principles of math, science and engineering, and particularly of advanced chemistry, to identify, analyze, formulate, and solve a wide variety of engineering problems;

2. Apply the core chemical engineering content (material and energy balances, thermodynamics, transport phenomena, separations and chemical reaction engineering) to analysis, problem solving, and design;
3. Analyze and design safe and economic process systems using skills and tools appropriate at any phase, from synthesis through optimization and control to operability;
4. Design and conduct experiments, and analyze and interpret technical data using modern experimental and computational techniques and tools;
5. Communicate technical information through effective presentations, memoranda and reports;
6. Contribute to the success of multi-disciplinary teams characteristic of today's workplace;
7. Understand the professional and ethical responsibility of the engineer, the safety and environmental aspects of engineering decisions, and the impact of engineering solutions in the context of societal needs and contemporary issues;
8. Continue their education and pursue new concepts through self-directed study.

TOTAL SEMESTER HOURS: 133

FIRST YEAR: 32 Semester Hours

Courses	Semester Hours	
	1st	2nd
English 101, 102–English Composition	3	3
Mathematics 261, 262–Unified Calculus and Analytic Geometry	3	3
Chemistry 105, 106, 115, 116–General Chemistry; Laboratory	4	4
Chemical Engineering 103, 104–Introduction to Chemical Engineering	1	1
Socio-humanistic/fine arts electives	3	6

SECOND YEAR: 34 Semester Hours

Courses	Semester Hours	
	1st	2nd
Mathematics 263, 264–Unified Calculus and Analytic Geometry	3	3
Mathematics 353–Differential Equations		3
Chemistry 221, 222, 225–Organic Chemistry; Laboratory	4	3
Physics 211, 212, 221, 222–Physics for Science, Engineering; Laboratory	4	4
Chemical Engineering 307, 308–Chemical Process Principles I, II	2	2
Engineering 321–Thermodynamics		3
Computer Science 251–Programming for Engineering and Sciences	3	

THIRD YEAR: 33 Semester Hours

Courses	Semester Hours	
	1st	2nd
Engineering 310–Engineering Analysis I	4	
Engineering 322–Transport Phenomena	3	
Engineering 360–Electric Circuit Theory		4
Chemistry 331, 332, 337–Physical Chemistry; Laboratory	4	3
Chemical Engineering 345–Engineering Economy		2
Chemical Engineering 317–Process Fluid Dynamics and Heat Transfer		4
Chemical Engineering 421–Chemical Engineering Thermodynamics	3	
Chemical Engineering 423–Chemical Reactor Analysis and Design		3
Socio-humanistic/fine arts elective	3	

FOURTH YEAR: 34 Semester Hours

Courses	Semester Hours	
	1st	2nd
Engineering 309–Introductory Mechanics		3
Engineering 361–Electric Circuits Laboratory	1	
Chemical Engineering 411–Senior Seminar	1	
Chemical Engineering 417–Separation Processes	4	
Chemical Engineering 445, 446–Chemical Engineering Laboratory I, II	2	2
Chemical Engineering 451, 452–Plant Design I, II	3	3
Chemical Engineering 511–Process Control		3
Chemistry, biology or engineering elective	3	
Socio-humanistic/fine arts elective	3	3
Engineering/science/mathematics elective		3

Bachelor of Science in Civil Engineering • Emphasizing the engineering sciences and civil engineering design, the following curriculum prepares the student for both professional practice and graduate study.

The following goals and objectives of the Civil Engineering Program apply.

Mission

1. To prepare students with a broad-based education for entering the civil and other related engineering professions, for advanced studies, and for careers in research;
2. To provide a top quality research program and graduate education in selected areas of science and engineering with its impact extending to regional, national, and global communities; and
3. To provide service to citizens, industry, and government via technological and educational innovations.

Goal

Our graduates will be leaders of the profession and the society.

Program Educational Objectives

1. Graduates will have a solid foundation in mathematics, sciences, and technical skills to analyze, design, and oversee construction of civil infrastructure systems.
2. Graduates will have the necessary qualifications for employment in civil engineering and related professions, and for pursuing advanced studies.
3. Graduates will be productive in the workplace and employers will rate their performance as effective.
4. Graduates will rate their educational experience and its benefit as effective.
5. Graduates will demonstrate creativity, professionalism, leadership quality, and ethical and societal responsibilities.

TOTAL SEMESTER HOURS: 130

FIRST YEAR: 31 Semester Hours

Courses	Semester Hours	
	1st	2nd
English 101, 102–English Composition	3	3
Mathematics 261, 262–Unified Calculus and Analytic Geometry	3	3
Chemistry 105, 115–General Chemistry; Laboratory	4	
Physics 211, 221–Physics for Science and Engineering; Laboratory		4
Computer Science 251–Programming for Engineering and Sciences		3
Civil Engineering 101, 102–Introduction to Civil Engineering	1	1
Socio-humanistic/fine arts electives ⁶	3	3

SECOND YEAR: 34 Semester Hours

Courses	Semester Hours	
	1st	2nd
Mathematics 263, 264–Unified Calculus and Analytic Geometry	3	3
Mathematics 353–Elementary Differential Equations		3
Physics 212, 222–Physics for Science and Engineering; Laboratory	4	
Engineering 207–Graphics I	1	
Engineering 309–Introductory Mechanics	3	
Engineering 312–Mechanics of Materials		3
Engineering 321–Thermodynamics		3
Civil Engineering 207–Surveying		2
Socio-humanistic/fine arts elective ⁶	6	
Speech 105–Business and Professional Speech		3

THIRD YEAR: 33 Semester Hours

Courses	Semester Hours	
	1st	2nd
Engineering 310–Engineering Analysis I	4	
Engineering 360–Electric Circuit Theory	4	
Engineering 323–Fluid Mechanics	3	
Civil Engineering 307–Civil Engineering Laboratory I		1
Civil Engineering 315–Civil Engineering Materials		3
Civil Engineering 325–Dynamics		3
Civil Engineering 431–Soil Mechanics I		3
Civil Engineering 412–Structural Design I		3
Civil Engineering 441–Structural Analysis	3	
Civil Engineering 481–Transportation Engineering I	3	
Technical elective ⁶		3

FOURTH YEAR: 32 Semester Hours

Courses	Semester Hours	
	1st	2nd
Engineering 402–Engineering Fundamentals		1
Engineering 400–Leadership and Professionalism	1	
Civil Engineering 407–Civil Engineering Laboratory II	1	
Civil Engineering 417–Construction Engineering and Management	3	
Civil Engineering 433–Foundation Engineering	3	
Engineering 453–Probabilistic Design		3
Civil Engineering 455, 456–Civil Engineering Design I, II	2	3
Civil Engineering 471–Environmental Engineering	3	
Civil Engineering 472–Environmental Water Resources		3
Economics 310–Engineering Economics		3
Technical electives	3	3

⁶ Selection of these must be made in consultation with and approved by the student's department chair/adviser to ensure satisfactory completion of special department requirements.

Bachelor of Science in Computer Science • The program goal is to give the student a thorough education in contemporary computer science while allowing sufficient flexibility for the student to pursue individual interests in related technical fields.

Objectives

1. Students completing the BSCS degree will be capable of implementing a computerized solution to a practical problem.
2. All students will gain experience working in development teams.
3. Students will exhibit professional ethics and abide by the School of Engineering Honor Code.
4. All program graduates will be proficient in relating technical concepts through written and oral communications.

5. Students graduating from the program will have a good general background in computer science, will be proficient in at least one high-level programming language, and will be familiar with a range of computing languages and paradigms.

The program goal and objectives are consistent with the Mission Statement of The University of Mississippi.

Course Requirements • Candidates must successfully complete 130 semester hours of course work which shall include the following:

- English 101, Liberal Arts 102 [6 hours], English 221-226 [3 hours]
- Social sciences, fine arts, and humanities¹ [18 hours]
- Speech 105 [3 hours]
- Mathematics 261, 262, 263, 301, 302, 319 [18 hours]
- Business 230 or Mathematics 475 [3 hours]
- Physics 211, 212, 221, 222 [8 hours]
- General science electives² [6 hours]
- Electrical Engineering 335, 336 [4 hours]
- Computer Science 111, 112, 211, 223, 300, 311, 387, 423, 433, 450, 487³ [31 hours]
 - Computer Science electives chosen from 300-level and above
 - Computer science courses or approved electives⁴ [15 hours]
 - Technical electives⁵ [15 hours]

FIRST YEAR: 30 Semester Hours

Courses	Semester Hours	
	1st	2nd
Computer Science 111, 112–Computer Science I, II	3	3
Mathematics 261, 262–Unified Calculus and Analytic Geometry	3	3
English 101, Liberal Arts 102–English Composition, Freshman Seminar	3	3
Speech 105–Business and Professional Speech		3
Social sciences, humanities, fine arts electives	6	3

SECOND YEAR: 33 Semester Hours

Courses	Semester Hours	
	1st	2nd
Computer Science 211, 223–Computer Science III, Computer Organization	3	3
Electrical Engineering 335, 336–Principles of Digital Systems and Lab		4
Mathematics 263, 301, 302–Unified Calculus and Analytic Geometry, Discrete Mathematics, Applied Modern Algebra	6	3
Physics 211, 221, 212, 222–Physics for Science, Engineering and Lab.	4	4
English Literature, one of 221–226	3	
Social sciences, humanities, fine arts electives		3

THIRD YEAR: 34 Semester Hours

Courses	Semester Hours	
	1st	2nd
Computer Science 300, 311, 387, 423, 433–Social Responsibility in Computer Science, Models of Computation, Software Design and Development, Introduction to Operating Systems, Algorithm and Data Structure Analysis	7	6
Computer science elective ⁴		3
Mathematics 319–Introduction to Linear Algebra	3	
Business 230 or Mathematics 475, statistics		3
Social sciences, humanities, fine arts electives	3	3
Technical electives ⁵	3	3

FOURTH YEAR: 33 Semester Hours

Courses	Semester Hours	
	1st	2nd
Computer Science 450, 487–Organization of Programming Languages, Senior Project	3	3
Computer science electives ⁴	6	6
General science electives ²	3	3
Technical electives ⁵	6	3

¹See Academic Requirements at the beginning of this chapter for the required School of Engineering course distribution.

²A list of acceptable science courses is available in the department office.

³For the specifically required computer science courses, no grade less than C can be applied to the degree requirements.

⁴A list of acceptable computer science electives is available in the department office.

⁵A list of acceptable technical electives is available in the department office.

Bachelor of Science in Electrical Engineering • Based on broad training in the basic and engineering sciences and the humanities, this curriculum provides a thorough knowledge of the field of electrical engineering, supplemented by fundamentals of civil, mechanical, and chemical engineering, which prepares a student for further study or work in any branch of the field. Specialization is minimized in the undergraduate work.

Mission

Program Goals • The program educational goals of the Department of Electrical Engineering undergraduate programs at The University of Mississippi are:

1. to educate students in the fundamental practices and concepts of electrical engineering with an engineering science emphasis in a way that enables students to apply basic knowledge to achieve technological advances toward the satisfaction of human needs,
2. to support professional, industrial, and economic development by providing students with opportunities for an intensive learning experience and direct application of knowledge in the field of electrical engineering, and

3. to prepare students for continued professional education, including graduate study.

These goals are consistent with The University of Mississippi mission statement and the vision statements of The University of Mississippi strategic plan, *Ole Miss Through 2010: A Guide for the Journey*, which focuses resources in the areas of instruction, research, and service.

Program Philosophy • The electrical engineering undergraduate program is founded on basic sciences, mathematics, and engineering science fundamentals. The program emphasizes engineering science, and focuses on the application of scientific knowledge to the solution of engineering problems. This focus is intended to lead students to develop analysis and design skills, and original thought processes that will serve them throughout their careers in a rapidly changing world.

The electrical engineering program is based on the philosophy that specialization is better acquired at the graduate level. The program is a broad-based program with an emphasis on the fundamentals of electrical engineering. The curriculum consists of engineering background courses in science and mathematics; courses in the humanities, social sciences, and fine arts that foster an appreciation of the interrelationship of basic sciences, technological advances, and society; and major multi-course sequences in engineering. Multi-course sequence areas are:

1. Core topics common to all areas of engineering,
2. Circuits and electronics,
3. Analog systems,
4. Digital systems,
5. Electromagnetic fields, RF and microwaves, and
6. Engineering design.

The basic program in electrical engineering requires multiple courses in each of the above areas. The emphasis areas of computer engineering, RF and wireless engineering, and telecommunications permit additional concentration in one of the areas and require multiple courses in at least five of the above areas.

Program Objectives • Based on our philosophy and goals, the faculty of the Department of Electrical Engineering has adopted the following Undergraduate Program Educational Objectives. Graduates of the Bachelor of Science in Electrical Engineering (BSEE) undergraduate program at The University of Mississippi should:

1. have a sound understanding of the fundamentals of engineering science, computer applications, mathematics, and physics; and have the ability to apply this knowledge in engineering practice.
2. be able to draw from physics, computer science, mathematics, and engineering science to identify, formulate, and develop practical design solutions to open-ended electrical engineering problems.
3. have experience in using different computers and operating systems for scientific computation, graphics, word processing, data acquisition, process control, computer-aided design, and engineering communication.
4. be able to communicate effectively with adequate written and oral technical communication skills.
5. have laboratory experiences in chemistry, physics, engineering science, and electrical engineering that include a focus on health and safety issues. These

- experiences will include the design of experiments, computer-aided data acquisition, process control, and analysis and interpretation of data.
6. have a general education of sufficient breadth to enhance their ability to work and deal with an ever-changing society involving people of different backgrounds and disciplines.
 7. have an understanding of professional and ethical responsibility.
 8. have an appreciation of the need for lifelong learning.

Curriculum • The faculty has identified a curriculum consisting of 133 semester hours that support the eight specific program educational objectives listed above. The program is focused to meet these objectives. Program flexibility is provided through technical electives and emphasis areas.

Bachelor of Science in Electrical Engineering

TOTAL SEMESTER HOURS: 133

FIRST YEAR: 33 Semester Hours

Courses	Semester Hours	
	1st	2nd
English 101–English Composition	3	
Mathematics 261, 262–Unified Calculus	3	3
Chemistry 105, 115–General Chemistry; Laboratory	4	
Physics 211, 221–Physics for Science and Engineering; Laboratory		4
Computer Science 251–Programming for Engineering and Sciences	3	
CSCI 259 Programming in C++		3
Socio-humanistic/fine arts electives	3	3
Electrical Engineering 100–Introduction to Electrical Engineering	1	
LIBA 102–First Year Seminar		3

SECOND YEAR: 34 Semester Hours

Courses	Semester Hours	
	1st	2nd
Mathematics 263, 264–Unified Calculus	3	3
Mathematics 353–Elementary Differential Equations		3
Physics 212, 222–Physics for Science and Engineering; Laboratory	4	
Electrical Engineering 335, 336–Principles of Digital Systems; Laboratory	4	
Engineering 360–Electric Circuit Theory; Laboratory*		5
Economics 310–Engineering Economics	3	
Socio-humanistic/fine arts electives	3	6

THIRD YEAR: 34 Semester Hours

Courses	Semester Hours	
	1st	2nd
Engineering 309–Introductory Mechanics	3	
Engineering 410, 310–Engineering Analysis I, II	4	4
Engineering 321–Thermodynamics	3	
Electrical Engineering 331–Linear Systems		3**
Electrical Engineering 341–Theory of Fields		3
Electrical Engineering 351, 352–Models and Circuits I, II	3	3
Electrical Engineering 353–Electronics Lab		1
Electrical Engineering 367, 368–Computer-Aided Design In Electrical Engineering I, II	2	1
Electrical Engineering 385, 386–Advanced Digital Systems; Lab	3	1

FOURTH YEAR: 32 Semester Hours

Courses	Semester Hours	
	1st	2nd
Electrical Engineering 431–Theory of Control Systems	3	
Electrical Engineering 441–Electromagnetic Theory I	3	
Electrical Engineering 447–Modulation, Noise, and Communications	3	
Electrical Engineering 461, 462–Senior Design I, II	1	2
Electrical Engineering 485, 486–Microprocessor Systems Engineering; Laboratory	3	
Electrical Engineering 533–Electronic Properties of Materials	3	
Technical electives***		14

* Electric Circuit Theory should be taken by junior college transfer students in the summer preceding their junior year, if not available at their previous college.

** ENGR 330 can be used as a substitute course, only if EL E 331 is not being taught.

*** Technical electives should be selected from the following:

EL E 333, EL E 433, EL E 442, EL E 443, EL E 451, EL E 453, EL E 487, EL E 523, EL E 525, EL E 561, CSCI 361, CSCI 521, CSCI 530, CSCI 551, CSCI 561, ENGR 597, TC 415, TC 432, TC 433, TC 491, TC 534, TC 535.

Bachelor of Science in Electrical Engineering with Emphasis in Computer Engineering

TOTAL SEMESTER HOURS: 133

FIRST YEAR: 33 Semester Hours

Courses	Semester Hours	
	1st	2nd
English 101–English Composition	3	
Mathematics 261, 262–Unified Calculus	3	3
Chemistry 105, 115–General Chemistry; Laboratory	4	
Physics 211, 221–Physics for Science and Engineering; Laboratory		4
CSCI 111, 112–Computer Science I, II	3	3
Socio-humanistic/fine arts electives	3	3
Electrical Engineering 100–Introduction to Electrical Engineering	1	
LIBA 102–First Year Seminar		3

SECOND YEAR: 34 Semester Hours

Courses	Semester Hours	
	1st	2nd
Mathematics 263, 264–Unified Calculus	3	3
Mathematics 353–Elementary Differential Equations		3
Physics 212, 222–Physics for Science and Engineering; Laboratory	4	
Electrical Engineering 335, 336–Principles of Digital Systems; Laboratory	4	
Engineering 360, 361–Electric Circuit Theory; Laboratory*		5
Economics 310–Engineering Economics		3
CSCI 211–Computer Science III	3	
CSCI 223–Computer Organization		3
Socio-humanistic/fine arts electives	3	

THIRD YEAR: 33 Semester Hours

Courses	Semester Hours	
	1st	2nd
Mathematics 301–Discrete Math	3	
Engineering 410–Engineering Analysis II	4	
Electrical Engineering 331–Linear Systems		3**
Electrical Engineering 341–Theory of Fields		3
Electrical Engineering 351, 352–Models and Circuits I, II	3	3
Electrical Engineering 353–Electronics Lab		1
Electrical Engineering 367, 368–Computer-Aided Design In Electrical Engineering I, II	2	1
Electrical Engineering 385, 386–Advanced Digital Systems; Lab	3	1
CSCI 361–Introduction to Computer Networks		3
CSCI 423–Introduction to Operating Systems	3	

FOURTH YEAR: 33 Semester Hours

Courses	Semester Hours	
	1st	2nd
Engineering 309–Eng. Mechanics	3	
Engineering 321–Thermodynamics		3
Electrical Engineering 431–Theory of Control Systems	3	
Electrical Engineering 461, 462–Senior Design I, II	1	2
Electrical Engineering 485, 486–Microprocessor Systems Engineering; Laboratory	3	
Electrical Engineering 533–Electronic Properties of Materials	3	
CSCI 433–Algorithm & Data Structure Analysis		3
Technical electives***		6
Socio-humanistic/fine arts electives	3	3

* Electric Circuit Theory should be taken by junior college transfer students in the summer preceding their junior year, if not available at their previous college.

** ENGR 330 can be used as a substitute course, only if EL E 331 is not being taught.

*** Technical electives should be selected from the following:

EL E 333, EL E 433, EL E 441, EL E 442, EL E 443, EL E 447, EL E 451, EL E 453, EL E 487, CSCI 521, CSCI 523, CSCI 530, CSCI 551, CSCI 561, ENGR 310, ENGR 597, TC 535.

Bachelor of Science in Electrical Engineering with Emphasis in RF/Wireless**TOTAL SEMESTER HOURS: 133****FIRST YEAR: 33 Semester Hours**

Courses	Semester Hours	
	1st	2nd
English 101–English Composition	3	
Mathematics 261, 262–Unified Calculus	3	3
Chemistry 105, 115–General Chemistry; Laboratory	4	
Physics 211, 221–Physics for Science and Engineering; Laboratory		4
Computer Science 251–Programming for Engineering and Sciences	3	
CSCI 259 Programming in C++		3
Socio-humanistic/fine arts electives	3	3
Electrical Engineering 100–Introduction to Electrical Engineering	1	
LIBA 102–First Year Seminar		3

SECOND YEAR: 34 Semester Hours

Courses	Semester Hours	
	1st	2nd
Mathematics 263, 264–Unified Calculus	3	3
Mathematics 353–Elementary Differential Equations		3
Physics 212, 222–Physics for Science and Engineering; Laboratory	4	
Electrical Engineering 335, 336–Principles of Digital Systems; Laboratory	4	
Engineering 360, 361–Electric Circuit Theory; Laboratory*		5
Economics 310–Engineering Economics	3	
Socio-humanistic/fine arts electives	3	6

THIRD YEAR: 34 Semester Hours

Courses	Semester Hours	
	1st	2nd
Engineering 309–Introductory Mechanics	3	
Engineering 410, 310–Engineering Analysis I, II	4	4
Engineering 321–Thermodynamics	3	
Electrical Engineering 331–Linear Systems		3**
Electrical Engineering 341–Theory of Fields		3
Electrical Engineering 351, 352–Models and Circuits I, II	3	3
Electrical Engineering 353–Electronics Lab		1
Electrical Engineering 367, 368–Computer-Aided Design in Electrical Engineering I, II	2	1
Electrical Engineering 385, 386—Advanced Digital Systems; Lab	3	1

FOURTH YEAR: 32 Semester Hours

Courses	Semester Hours	
	1st	2nd
Electrical Engineering 431–Theory of Control Systems	3	
Electrical Engineering 433–High Frequency & Microwave Lab		1
Electrical Engineering 441–Electromagnetic Theory I	3	
Electrical Engineering 447–Modulation, Noise, and Communications	3	
Electrical Engineering 461, 462–Senior Design I, II	1	2
Electrical Engineering 523–Microwave Engineering		3
Electrical Engineering 525–Introduction to Antennas		3
Electrical Engineering 533–Electronic Properties of Materials	3	
Electrical Engineering 561–Microwave Circuit Design		2
Technical electives***	4	4

* Electric Circuit Theory should be taken by junior college transfer students in the summer preceding their junior year, if not available at their previous college.

** ENGR 330 can be used as a substitute course, only if EL E 331 is not being taught.

*** Technical electives should be selected from the following:

EL E 333, EL E 442, EL E 443, EL E 451, EL E 453, EL E 485, EL E 486, EL E 487, CSCI 361, CSCI 561, ENGR 597, TC 432, TC 433, TC 491, TC 534, TC 535.

Bachelor of Science in Electrical Engineering with Emphasis in Telecommunications

TOTAL SEMESTER HOURS: 133

FIRST YEAR: 33 Semester Hours

Courses	Semester Hours	
	1st	2nd
English 101–English Composition	3	
Mathematics 261, 262–Unified Calculus	3	3
Chemistry 105, 115–General Chemistry; Laboratory	4	
Physics 211, 221–Physics for Science and Engineering; Laboratory		4
Computer Science 251–Programming for Engineering and Sciences	3	
CSCI 259 Programming in C++		3
Socio-humanistic/fine arts electives	3	3
Electrical Engineering 100–Introduction to Electrical Engineering	1	
LIBA 102–First Year Seminar		3

SECOND YEAR: 33 Semester Hours

Courses	Semester Hours	
	1st	2nd
Mathematics 263, 264–Unified Calculus	3	3
Mathematics 353–Elementary Differential Equations		3
Physics 212, 222–Physics for Science and Engineering; Laboratory	4	
Electrical Engineering 335, 336–Principles of Digital Systems; Laboratory	4	
Engineering 309–Engineering Mechanics	3	
Engineering 360–Electric Circuit Theory*		4
CSCI 361–Introduction to Computer Networks		3
Socio-humanistic/fine arts electives	3	3

THIRD YEAR: 32 Semester Hours

Courses	Semester Hours	
	1st	2nd
Engineering 361–Electric Circuits Lab	1	
Engineering 410–Engineering Analysis II	4	
Electrical Engineering 331–Linear Systems		3**
Electrical Engineering 341–Theory of Fields		3
Electrical Engineering 351, 352–Models and Circuits I, II	3	3
Electrical Engineering 353–Electronics Lab		1
Electrical Engineering 367, 368–Computer-Aided Design in Electrical Engineering I, II	2	1
Electrical Engineering 385, 386–Advanced Digital Systems; Lab	3	1
Economics 310–Engineering Economics	3	
Telecommunications 432–Local Area Networks		3
Telecommunications 415–Telecom Lab		1

FOURTH YEAR: 35 Semester Hours

Courses	Semester Hours	
	1st	2nd
Engineering 310–Engineering Analysis I	4	
Engineering 321–Thermodynamics		3
Electrical Engineering 431–Theory of Control Systems	3	
Electrical Engineering 441–Electromagnetic Theory I	3	
Electrical Engineering 447–Modulation, Noise, and Communications	3	
Electrical Engineering 461, 462–Senior Design I, II	1	2
Electrical Engineering 533–Electronic Properties of Materials	3	
Telecommunications 535–Digital Communications		3
Technical electives***		7
Socio-humanistic/fine arts electives		3

* Electric Circuit Theory should be taken by junior college transfer students in the summer preceding their junior year, if not available at their previous college.

** ENGR 330 can be used as a substitute course, only if EL E 331 is not being taught.

*** Technical electives should be selected from the following:

EL E 433, EL E 442, EL E 443, EL E 451, EL E 453, EL E 485, EL E 486, EL E 487, EL E 523, EL E 525, CSCI 561, ENGR 597, TC 409, TC 433, TC 491, TC 534.

Bachelor of Science in Geological Engineering • The goals of the Bachelor of Science in Geological Engineering program are an outgrowth of and consistent with The University of Mississippi academic focus and goals for the 1990s. While recognizing that the primary goal is to educate students whose careers will serve the state of Mississippi, it is our goal to train students whose professional careers will also serve the needs of the nation and the world in geological engineering and related fields. Past graduates of the program have found professional positions in a range of industries including i) geotechnical, ii) geoenvironmental, iii) geospatial information science and technology, iv) graduate education, and v) earth resources extraction. Future graduates are expected to serve the same range of industries. The objectives of the Bachelor of Science in Geological Engineering program are to prepare graduates:

1. Capable of conducting productive careers as professional geological engineers engaged in continuous professional growth along their chosen career path;
2. Knowledgeable of fundamental mathematics, chemistry, and physics, in preparation for advanced instruction and professional practice in geological engineering.
3. With demonstrated knowledge of the engineering sciences, geological sciences, and geological engineering design fundamentals that are the core of the geological engineering profession;
4. Well versed in the liberal arts and capable of effective written and oral communication;
5. Familiar with modern technology and modern scientific and engineering practice, and prepared to engage in lifelong learning to remain vital in the profession;
6. With demonstrated ability to design and communicate creative solutions to practical problems that are effective, ethical, environmentally sound, cognizant of public safety requirements, and economically feasible.

TOTAL SEMESTER HOURS: 138**FIRST YEAR: 32 Semester Hours**

Courses	Semester Hours	
	1st	2nd
English 101, 102–English Composition	3	3
Mathematics 261, 262–Unified Calculus and Analytic Geometry	3	3
Chemistry 105, 106, 115, 116–General Chemistry; Laboratory	4	4
Geology 103–Earth Dynamics	5	
Geology 221–Mineralogy		4
Socio-humanistic/fine arts elective		3

SECOND YEAR: 34 Semester Hours

Courses	Semester Hours	
	1st	2nd
Mathematics 263, 264–Unified Calculus and Analytic Geometry	3	3
Physics 211, 212, 221, 222–Physics, Laboratory	4	4
Geology 222–Elementary Petrology	4	
Geology 314–Sedimentology and Stratigraphy		4
Computer Science 251–Programming for Engineering and Sciences	3	
Engineering 340–Engineering Geology		3
Engineering 309–Introductory Mechanics		3
Socio-humanistic/fine arts elective	3	

THIRD YEAR: 32 Semester Hours

Courses	Semester Hours	
	1st	2nd
Mathematics 353–Differential Equations	3	
Engineering 312–Mechanics of Materials		3
Engineering 207–Graphics I		1
Engineering 323–Fluid Mechanics	3	
Civil Engineering 431–Soil Mechanics I		3
Geology 305–Geomorphology	3	
Geology 303–Structural and Tectonic Geology		3
GE 234–Intro. to Geological Engineering Field Methods	1	
GE 305–Geomechanics	3	
Engineering 453–Prob. and Stat. Analyses in Eng. Design		3
GE 470–Intro. to Geographic Information Systems (GIS)	3	
Engineering Science Elective*		3

SUMMER: 6 Semester Hours

South Dakota School of Mines Field Camp (or acceptable substitute field camp)

FOURTH YEAR: 34 Semester Hours

Courses	Semester Hours	
	1st	2nd
GE 402–Professionalism in Geological Engineering		1
GE 420–Subsurface Site Characterization	4	
GE 421–Geological Engineering Design I		4
GE 450–Hydrogeology	4	
GE Technical electives**	3	3
Economics 310–Engineering Economy		3
Engineering Science Elective*		3
Socio-humanistic/fine arts electives	6	3

* Engineering Science Electives (pick two):
ENGR 360 or ENGR 362, ENGR 321, CE 472

** GE Tech Electives (pick two): GE 405, GE 440, GE 460, GE 490, GE 503, GE 507, GE 510, GE 511, GE 513, CE 471 or one of the following additional engineering science courses: CE 325, ENGR 310, ENGR 313

Additional requirements:

Electives must include one two-course sequence of socio-humanistic/fine arts electives, e.g., HIS 105 and HIS 106.

FE exam must be taken in final semester.

Bachelor of Science in Mechanical Engineering • Education in engineering fundamentals with emphasis on a particular discipline through electives is provided in this curriculum: courses in mechanics, thermodynamics, fluid mechanics, materials, design, and laboratory diagnostics. The preparation fosters an inquisitiveness and understanding that will preclude future obsolescence of the mechanical engineering graduate.

Goals and Objectives • The program educational objectives of the Department of Mechanical Engineering derive their foundation from the statement of purpose and goals for The University of Mississippi. The academic mission of the department is focused on broad, over-arching goals that reflect both the academic purpose of the School of Engineering and the University. The goals and objectives have been established from inputs by the Engineering School Advisory Board, faculty, and students as constituency groups. The department has used the University goals to refine the goals and objectives of the department. This focus has resulted in the development of a curriculum within the Department of Mechanical Engineering consisting of lecture, design, and laboratory courses that stress the department goals and objectives, which are listed as follows:

1. to educate students in the broad scope of the mechanical engineering discipline so as to be successful in applying and advancing knowledge in industry, academia, and related fields;
2. to conduct basic and applied research in fields related to mechanical engineering;
3. to serve industry, the engineering community, and the community at large in the state of Mississippi, the nation, and the world.

To achieve these goals, the mechanical engineering faculty have established the following undergraduate program educational objectives:

- A. to emphasize a clear understanding of the scientific principles of mathematics, chemistry, physics, solid mechanics, fluid mechanics, materials science, thermal sciences, and the basic core.
- B. to have students broadly educated in the humanities, social sciences, fine arts, and ethics.
- C. to cultivate effective communication skills, both verbal and written.
- D. to achieve competence with a variety of computer systems/software and to utilize the computer as an engineering tool.
- E. to familiarize students with up-to-date diagnostic engineering laboratory instrumentation and measurement techniques.
- F. to educate students in the principles of engineering design.
- G. to teach students to think analytically and creatively.
- H. to prepare students for the lifelong learning process that yields a successful career.

TOTAL SEMESTER HOURS: 129

FIRST YEAR: 33 Semester Hours

Courses	Semester Hours	
	1st	2nd
English 101, 102–English Composition	3	3
Mathematics 261, 262–Unified Calculus and Analytic Geometry	3	3
Chemistry 105, 106, 115, 116–General Chemistry; Lab.	4	4
Engineering 207*–Graphics I		1
Socio-humanistic/fine arts electives	6	6

SECOND YEAR: 32 Semester Hours

Courses	Semester Hours	
	1st	2nd
Mathematics 263, 264–Unified Calculus and Analytic Geometry	3	3
Mathematics 353–Elementary Differential Equations		3
Physics 211, 212, 221, 222–Physics for Science and Engineering; Lab.	4	4
Computer Science 251*–Programming for Engineering and Sciences	3	
Engineering 309*–Introductory Mechanics		3
Engineering 321*–Thermodynamics		3
Socio-humanistic/fine arts electives	6	

THIRD YEAR: 34 Semester Hours

Courses	Semester Hours	
	1st	2nd
Engineering 310–Engineering Analysis I	4	
Engineering 313, 314–Introduction to Materials Science; Lab	4	
Engineering 312, 322–Mechanics of Materials; Transport Phenomena	3	3
Engineering 330–Engineering Systems	3	
Engineering 360, 361–Electric Circuit Theory; Lab.	4	1
Mechanical Engineering 324–Introduction to Mechanical Design		3
Mechanical Engineering 325–Intermediate Dynamics		3
Math 375		3
ECON 310–Engineering Economics		3

FOURTH YEAR: 30 Semester Hours

Courses	Semester Hours	
	1st	2nd
Mechanical Engineering 401, 402–Thermo-fluid Dynamics; Elements of Propulsion	3	3
Mechanical Engineering 404–Applied Fluid Mechanics	3	
Mechanical Engineering 416–Structures and Dynamics Laboratory	1	
Mechanical Engineering 419–Energy and Fluids Laboratory		1
Mechanical Engineering 427, 428–Kinematic Synthesis; Dynamics of Machinery	4	3
Mechanical Engineering 438–Mechanical Engineering Design		3
Engineering 553–Heat Transfer		3
Engineering technical electives A, A or B	3	3
(a) Engineering elective A courses (includes one hour of design): ME 417, ME 418, ME 422, ME 523, ME 524, ME 526, ME 527, ME 531, ME 534, ME 535, ME 538, ME 540, and ME 555.		
(b) Engineering elective B courses: ME 421, ME 521, ME 522, ME 530, ME 533, ENGR 410, ENGR 515, ENGR 558, ENGR 559, ENGR 585, ENGR 590, ENGR 593.		

BACHELOR OF ENGINEERING

General • A wide variety of individually designed engineering curricula leading to the four-year Bachelor of Engineering degree are available for those students who wish to base their college work on a background of engineering, science, and mathematics courses. Students in Bachelor of Engineering programs, regardless of their individually planned curricula, will follow one of two paths of study.

Pre-professional Path • This approach to the Bachelor of Engineering degree stresses science and technology and the foundation knowledge for a particular profession. Students earning this degree will be able to continue their education in professional programs such as engineering, the sciences, medicine, law, business, and dentistry on the basis of a technical as well as liberal education.

Terminal Path • This approach to the Bachelor of Engineering degree is based on individually designed curricula that permit the student to obtain a strong background in science and technology while simultaneously giving the student a broad education outside these areas of study. This path offers an excellent education for students whose career interests lie in the military, in technical writing, and the operation of technically based businesses, such as technical sales.

Course Requirements • Candidates must successfully complete 127 semester hours of course work to include:

Courses	Semester Hours
English 101, 102	6
Mathematics 261, 262, 263, 264, 353	15
Chemistry 105, 106, 115, 116	8
Physics 211, 212, 221, 222	8
Computer Science 251	3
Engineering 309, 310, 313, 321, 330, 360, 361	21
Engineering electives	9
Humanities/fine arts and social sciences electives	24
Preprofessional and/or terminal path approved electives	33

The School of Pharmacy

Barbara G. Wells, Dean

H. Joseph Byrd, Associate Dean for Clinical Affairs

Charles D. Hufford, Associate Dean for Research and Graduate Programs

Marvin C. Wilson, Associate Dean for Academic and Student Affairs

Alicia S. Bouldin, Research Assistant Professor for Instructional Assessment and Advancement

John J. Juergens, Coordinator of Student Professional Development

1018 Thad Cochran Research Center

MISSION

The mission of The University of Mississippi School of Pharmacy is to improve the health of our state citizens as well as those of the nation and the world:

- by educating pharmacy practitioners, pharmaceutical scientists, and other health professionals via a variety of degree programs, including the Bachelor of Science in Pharmaceutical Sciences, Doctor of Pharmacy, Master of Science, and Doctor of Philosophy, and by facilitating the establishment of postdoctoral residencies and fellowships;
- by generating and disseminating new biomedical knowledge through collaborative and multidisciplinary research and scholarly activity;
- by advancing pharmaceutical care by providing pharmacy practitioners with professional development opportunities and by conducting practice-based research; and
- by providing service to pharmacists, other health professions and scientific disciplines, and citizens of Mississippi, the nation, and the world.

PROFESSIONAL PROGRAM

The Board of Trustees created the School of Pharmacy on July 1, 1908. The objective of the Doctor of Pharmacy curriculum is to provide an academic foundation with adequate professional experience to enable a graduate to successfully deliver pharmaceutical care in a variety of practice settings: community practice, institutional practice, managed care organizations, government service, etc. In order to accomplish this objective, the school offers two degree programs: (1) a four-year baccalaureate in pharmaceutical sciences degree, and (2) an advanced professional two-year Doctor of Pharmacy degree. Previous attainment of a B.S. in Pharmacy from this or another American Council on Pharmaceutical Education (ACPE) accredited School of Pharmacy or of a B.S. in Pharmaceutical Sciences (practice track) from this institution is prerequisite for admission into the Doctor of Pharmacy program. The Doctor of Pharmacy degree is available to practitioners possessing a B.S. in Pharmacy using both traditional and nontraditional instructional methodologies.

The Bachelor of Science in Pharmaceutical Sciences is not a practice degree, nor does it entitle one to sit for licensure examination. This degree provides the academic preparation for admission into either the Doctor of Pharmacy program, a graduate

degree program in the biomedical or pharmaceutical sciences, a professional school, e.g., medicine or law, or a pharmaceutical science or pharmacy-related career path, e.g., pharmaceutical marketing and management, or environmental toxicology.

The University of Mississippi School of Pharmacy is committed to encouraging diversity in its student body and to graduating professionals dedicated to the delivery of compassionate pharmaceutical care to all segments of the diverse population in their communities. The school's goals are developed to ensure that this commitment is manifested in all aspects of student life so that students are provided access to educational opportunities and social programs that are free from bias. The school expects that all students, faculty, and staff will be treated fairly without regard to race, age, color, gender, religion, national origin, sexual orientation, marital status, handicapped status, or veteran status.

RESEARCH AND SERVICE

Research activities are conducted within each academic department and in the Research Institute of Pharmaceutical Sciences. The Bureau of Pharmaceutical Services is responsible for the service activities of the School of Pharmacy.

Research Institute of Pharmaceutical Sciences • The Research Institute of Pharmaceutical Sciences (RIPS) was chartered by the Mississippi Legislature in 1964 and exists within the organizational structure of the School of Pharmacy at The University of Mississippi. The Research Institute is organized around the efforts of a core of full-time research faculty. In addition, the academic faculty of the School of Pharmacy may have part-time appointments in the institute. Activities of the institute are conducted through the National Center for Natural Products Research (listed below), as well as the Center for Pharmaceutical Marketing and Management (listed below).

National Center for Natural Products Research • The mission of the National Center for Natural Products Research is to improve human health and agricultural productivity through the discovery, development, and commercialization of natural products or derivatives as pharmaceuticals and agrochemicals. The national center conducts basic and applied multidisciplinary research and educational activities in two major programmatic areas: the discovery of potential new drugs for certain infectious diseases, cancer, and immune and inflammatory diseases, and the development of phytomedicines as therapeutic agents. Additionally, the national center conducts research related to the development of medicinal plants as alternative crops for U.S. farmers.

Center for Pharmaceutical Marketing and Management • The Center for Pharmaceutical Marketing and Management promotes efficiency and effectiveness in the marketing and management of pharmaceutical products and services in all segments of the industry. Through a unique strategic alliance between the School of Pharmacy and the School of Business Administration, the Center for Pharmaceutical Marketing and Management applies The University of Mississippi's distinctive competencies to focused research and innovative educational programs involving health care. The Center for Pharmaceutical Marketing and Management is committed to supporting education at all levels—undergraduate, graduate, and practicing professionals. The center also provides an environment where business and education can come together to exchange real-world research ideas, results, and information. Past, present, and future research includes both applied and theoretical projects in an environment that encourages mutual interaction between industry professionals and the staff and students in the center. An open exchange of ideas, collaboration on

development of solutions to problems, and dissemination of the findings will be the result. The programs of the center include: Pharmaceutical Marketing and Management Research, Pharmacy Entrepreneurship, and Pharmosaic (a pharmaceutical marketing workforce diversity initiative).

Bureau of Pharmaceutical Services • The Bureau of Pharmaceutical Services serves Mississippi and the nation by accumulating and disseminating pharmaceutical information to pharmacists, pharmacies, health-related professional groups, and other persons associated with the drug industry. Any pharmaceutical organization desiring to gather or to supply such information may use this service. The bureau is recognized nationally as an ACPE-accredited provider of continuing pharmaceutical education. The bureau coordinates all continuing professional education activities, including curricular-based certification programs offered by the School of Pharmacy. In addition, the bureau maintains a placement service for Mississippi pharmacists.

ACCREDITATION

The School of Pharmacy holds membership in the American Association of Colleges of Pharmacy, an organization of the colleges of pharmacy of the United States, the object of which is to promote pharmaceutical education and research.

The Doctor of Pharmacy program was fully accredited in 2000 by the American Council on Pharmaceutical Education, 311 West Superior Street, Suite 512, Chicago, Illinois 60610; (312) 664-3575, (800) 533-3606; or fax (312) 664-4652.

All 2004 graduates of the Doctor of Pharmacy program passed the national board exam on their initial attempt. Furthermore, all graduates seeking such employment were employed as practitioners. The Doctor of Pharmacy graduation rate approximates 98 percent of students admitted to the P5 year.

MISSISSIPPI PHARMACY LAW

Registered Pharmacists • For the information of prospective pharmacists, the Mississippi Pharmacy Practice Act, enacted by the Mississippi Legislature in 1983, requires that all practitioners obtain a license prior to engaging in the practice of pharmacy.

To obtain a license the applicant shall:

1. Have submitted a written application on the form prescribed by the board;
2. Be of good moral character;
3. Have graduated and received a degree from a program of a school or college of pharmacy accredited by the American Council on Pharmaceutical Education;
4. Have successfully passed an examination given by the board;
5. Have submitted documented evidence of the required practical experience;
6. Have paid the initial licensure fee.

Every prospective registrant must be a B.S. in Pharmacy or Doctor of Pharmacy graduate of a recognized school or college of pharmacy before the registrant may be permitted to take the NAPLEX examination given by the State Board of Pharmacy for registration as a registered pharmacist. The Mississippi State Board of Pharmacy, consisting of seven members who are practicing pharmacists, is charged with the general administration of the laws regulating the practice of pharmacy. Transactions

with the Board of Pharmacy are effected through the office of the secretary and executive officer, 625 North State Street, Second Floor, Jackson, Mississippi 39202.

Registered Pharmacy Students • All students who want to receive the Doctor of Pharmacy degree from the University and who are in their P3, P4, P5, or P6 curriculum are required to register as an extern/intern with the Mississippi State Board of Pharmacy.

RECIPROCITY

Graduates of the Doctor of Pharmacy programs are eligible to become licensed as pharmacists by examination in all states, the District of Columbia, and Puerto Rico. Graduates of this school who become licensed by examination in Mississippi are eligible to become licensed by reciprocity in the District of Columbia, Puerto Rico, and all states except California and Florida, provided they have acquired the requisite pharmacy practice experience.

INSTRUCTIONAL FACILITIES

The School of Pharmacy is located in Faser Hall, a four-story structure comprising one of the units of the University Sciences Center, and in the Thad Cochran Research Center. These facilities contain classrooms, laboratories, offices, and equipment used by the departments of Medicinal Chemistry, Pharmaceutics, Pharmacognosy, Pharmacology, Pharmacy Practice, and Pharmacy Administration, as well as the Research Institute of Pharmaceutical Sciences, including the National Center for Natural Products Research. Students complete the last two years of the four-year B.S. in Pharmaceutical Sciences program on the Oxford campus. The majority of classes in the curriculum are held in technologically advanced auditoria complete with network connections and the ability for teleconference. Rooms dedicated for small group interaction are network ready and contain a variety of technologies used to enhance learning. Two additional years of education are required to obtain the Doctor of Pharmacy degree. The final four semesters of instruction in the Doctor of Pharmacy program are conducted off-campus at The University Medical Center in Jackson and at other instructional and professional practice sites.

Jackson • Clinical and problem-based instruction is provided in Jackson at The University of Mississippi Medical Center (UMMC) and the Jackson Medical Mall. The pharmaceutical care course sequence is conducted at the Medical Mall, which is an 800,000-square-foot facility in central Jackson dedicated to providing ambulatory health delivery services to the community. The University Hospital and Clinic is a 593-bed major teaching site for all UMMC educational programs. In addition to the UMMC facilities, numerous other practice sites throughout Mississippi and the Memphis area are used in the experiential portion of the curriculum.

The Science Library • Located in the Thad Cochran Research Center, this library combines the holdings of the former chemistry and pharmacy libraries. The library provides information and library services to the faculty, students, and staff of the School of Pharmacy, the Chemistry and Biochemistry Department, and others in the University and Oxford communities. Over 65,000 volumes and 375 serials are held. Computer hookups to the Internet, e-mail, and other electronic resources are provided to each of the 100 seats in the library. Three group student/conference rooms are available. Access is available to more than 100 computer databases, including

MEDLINE, International Pharmaceutical Abstracts, 15 full-text journals, and Drug Information Scholar; Lexis-Nexis Universe; ARGICOLA; Dialog@Carl; EbscoHost; and FirstSearch, most of which are available both on and off campus. Innovative Interfaces circulation and public access catalogs allow both on- and off-campus access to the collections. Services provided include reference, bibliographic instruction, interlibrary loan, circulation, reserve, and photocopy services. The Web pages of the Science Library and the Williams Library provide reference, interlibrary loan, and other services to off-campus users. The library is open 24 hours a day from 1 p.m. Sunday to 11 p.m. Friday and 10 a.m.-4 p.m. Saturday during regular semesters.

FINANCIAL AID

Information on general financial aid programs is listed in the financial aid section of the University catalog. Inquiries about general financial aid should be directed to the Director of Financial Aid, The University of Mississippi, P.O. Box 1848, University, Mississippi 38677-1848. In addition, scholarships and loans are available specifically to students in the School of Pharmacy. Although School of Pharmacy scholarships are used for recruitment of exceptional early-entry and transfer students, the distribution of these funds is primarily based on academic performance in the professional program. Formal application for these scholarships is not necessary. Students in the B.S. in Pharmaceutical Sciences marketing and management track also are eligible for scholarships provided by Pfizer Pharmaceuticals, Healthcare Marketing and Communications Council, and the Perrigo Corporation. Questions concerning scholarships and loans available only to pharmacy students should be directed to the School of Pharmacy associate dean for academic and student affairs. Scholarship policies are described in detail in the *School of Pharmacy Student Handbook* found online at www.pharmacy.olemiss.edu.

AWARDS

In addition to awards generally available to outstanding University students, the following honors and awards are offered to students in the School of Pharmacy's professional programs.

The MEDICINAL CHEMISTRY AWARD is given for outstanding scholastic achievement in medicinal chemistry.

The PHARMACEUTICS AWARD is given for outstanding scholastic achievement in pharmaceuticals.

The PHARMACOGNOSY AWARD is given for outstanding scholastic achievement in pharmacognosy.

The PHARMACOLOGY AWARD is given for outstanding scholastic achievement in pharmacology.

The PHARMACY ADMINISTRATION AWARD is given for outstanding scholastic achievement in pharmacy administration.

The AMERICAN SOCIETY OF HEALTH-SYSTEM PHARMACISTS STUDENT LEADERSHIP AWARD AND SCHOLARSHIP is awarded to a student who has demonstrated leadership and scholarship with a focus on institutional pharmacy practice.

The AMERICAN PHARMACISTS ASSOCIATION—ACADEMY OF STUDENTS OF PHARMACY MORTAR AND PESTLE PROFESSIONAL AWARD is presented to the student who has exhibited the ideals of professionalism and excellence in patient care, and who has demonstrated exceptional service and commitment to the profession of pharmacy through involvement in professional organizations and other extracurricular learning opportunities.

The ELI LILLY AND COMPANY AWARD FOR LEADERSHIP is awarded to the graduating Bachelor of Science in Pharmaceutical Sciences student who has demonstrated outstanding leadership within the School of Pharmacy and its organizations.

The FACTS AND COMPARISONS EXCELLENCE IN CLINICAL COMMUNICATIONS AWARD is presented to a student who has demonstrated outstanding verbal and written clinical communication skills, as well as high academic achievement.

The GLAXOSMITHKLINE FOR EXCELLENCE IN CLINICAL PHARMACY AWARD is presented to a student who has demonstrated superior performance in patient care skills during the experiential component of the Doctor of Pharmacy program.

The MERCK AND COMPANY AWARD FOR SCHOLARSHIP is awarded to students who have achieved the highest grade-point average during the final two years of the Bachelor of Science in Pharmaceutical Sciences degree program.

The MYLAN INSTITUTE OF PHARMACY EXCELLENCE IN PHARMACY AWARD is presented to a graduating Doctor of Pharmacy student who has demonstrated high academic achievement and a strong commitment to the profession of pharmacy.

The PFIZER U.S. PHARMACEUTICALS AWARD FOR LEADERSHIP is presented to the graduating Doctor of Pharmacy student who has demonstrated outstanding leadership within the School of Pharmacy and its organizations, as well as to the University.

The ROCHE LABORATORIES PHARMACY COMMUNICATIONS AWARD is in recognition of effective pharmacist-patient communication skills as a vital aspect of pharmacists' service to their patients and community.

The SCHOOL OF PHARMACY AWARD FOR SCHOLARSHIP is presented to the student for achieving the highest grade-point average during the final four years of the professional program of the School of Pharmacy leading to the Doctor of Pharmacy degree.

The SCHOOL OF PHARMACY HALL OF FAME award, chosen by the graduating classes, recognizes significant contribution to the school, both scholastically and professionally. Two Hall of Fame members are selected from the Pharm.D. graduating class and when appropriate, one from the B.S. in Pharmaceutical Sciences graduating class (nonpractice track).

The TEVA PHARMACEUTICALS NON-PRESCRIPTION DRUG THERAPY AWARD is presented to the student who has demonstrated high academic achievement in the study of non-prescription drug therapy.

The USPHS EXCELLENCE IN PUBLIC HEALTH PHARMACY PRACTICE AWARD is presented to the student who has demonstrated exceptional commitment to providing pharmaceutical care to medically underserved populations.

PROFESSIONAL ORGANIZATIONS

Students enrolled in the professional pharmacy program (P1 through P6) have the opportunity to become affiliated with various national professional pharmacy organizations, including chapters of the Academy of Students in Pharmacy (ASP) of the American Pharmaceutical Association, National Community Pharmacists Association, Academy of Managed Care Pharmacy, American Society of Health-Systems Pharmacists, and the National Pharmaceutical Association. The school also has chapters of the three professional fraternities: Kappa Psi, Phi Delta Chi, and Kappa Epsilon; a chapter of the Rho Chi Society, the pharmacy honorary society; and Phi Lambda Sigma, the pharmacy leadership society. These organizations provide opportunities for professional development, involvement in service projects, and attainment of leadership skills.

HONOR SYSTEM

The pharmacist occupies a position of great trust and responsibility in fulfilling duties in safeguarding the health of the citizens of the community. In order to foster the highest ideals of professional ethics, students enrolled in the School of Pharmacy adhere to an honor system that regulates their conduct during professional course work and examinations. Any case involving an infraction of the provisions of the honor system is adjudicated by a judicial council composed of student members elected by their classmates and under the chairmanship of the president of the School of Pharmacy Student Body. Prior to implementation, disciplinary decisions of this council are referred for review to the dean of the School of Pharmacy.

STUDENT ACCESS TO RECORDS

Students have certain rights of access to their records. See the *M Book* for details.

DEGREE PROGRAMS

(More detailed information regarding the undergraduate/professional program is available in the *School of Pharmacy Student Handbook* located online at www.pharmacy.olemiss.edu.)

A hallmark of the pharmacy profession is the trusting relationship between the pharmacist and his or her patients. That relationship is sustained by a commitment to the highest levels of professionalism. All students enrolled in the School of Pharmacy are expected to adopt and reflect the characteristics of a professional, which include integrity, empathy, fairness, responsibility, and a commitment to ethical behavior. In addition, students will demonstrate respect for peers, faculty, and staff of the school and exhibit a high level of maturity that reflects their status as a member of the greater pharmacy community. To further emphasize the commitment to professionalism, the school conducts a White Coat Ceremony for entering students signifying the beginning of their professional education. At that time, students sign a Pledge of Professionalism.

I. BACHELOR OF SCIENCE IN PHARMACEUTICAL SCIENCES PROGRAM

All undergraduate students entering the School of Pharmacy will be admitted into the B.S. in Pharmaceutical Sciences program. This is a four-year degree consisting of two years of pre-professional education followed by two years of professional courses, culminating in the awarding of the baccalaureate degree. This degree does not provide eligibility to sit for the licensure examination for pharmacy practice.

Technical Standards for Pharmacy School Admission

Candidates for the Bachelor of Science in Pharmaceutical Sciences and Doctor of Pharmacy degrees must be able to perform the essential functions in each of the following categories: observation, communication, motor, intellectual, and behavioral/social. However, it is recognized that degrees of ability vary among individuals.

If you feel you are unable to meet these technical standards you are encouraged prior to application to discuss your disability with the executive director of Equal Opportunity and Regulatory Compliance at The University of Mississippi to determine whether or not reasonable accommodations can be made.

The University of Mississippi School of Pharmacy is committed to enabling its students by any reasonable means or accommodations to complete the course of study leading to the B.S.P.S. and Doctor of Pharmacy degrees.

1. Observation

All candidates must be able to:

- Observe lectures, demonstrations, experiments, and practice-based activities.
- Observe physiological and pharmacological demonstrations, evaluation of microbiological cultures, and microscopic studies of organisms and tissues in normal and pathological states.
- Observe a patient accurately at a distance and close at hand.
- Read information on a computer screen.
- Remain fully alert and attentive at all times in clinical settings.

Additionally, candidates for the Doctor of Pharmacy degree must be able to evaluate visible patient signs and symptoms for the purposes of monitoring drug therapy.

2. Communication

All candidates must be able to:

- Communicate effectively, sensitively, and rapidly with patients, caregivers, and members of the health care team.
- Speak, listen, read, and write in the English language.
- Effectively communicate with instructors and peers.

Additionally, candidates for the Doctor of Pharmacy degree must be able to:

- Communicate with health care practitioners specifically in reviewing and recommending verbal and written drug therapy orders.
- Elicit information from patients, describe changes in mood, activity and posture, and perceive nonverbal communications.

3. Psychomotor Skills

All candidates must be able to:

- Have sufficient motor function to execute all aspects of processing multiple types of drug orders and compounding of medications.
- Engage in safe and aseptic handling of sterile preparations.
- Safely and effectively operate appropriate equipment (e.g., microscope, typewriter, glucose monitors, peak flow meters).

Additionally, candidates for the Doctor of Pharmacy degree must be able to engage in basic physical assessment activities including palpation, auscultation, percussion, and other diagnostic maneuvers.

4. Intellect

All candidates must be able to:

- Comprehend three-dimensional relationships and understand the spatial relationships of structures.
- Solve problems involving measurement, calculation, reasoning, analysis, synthesis, and evaluation rapidly in a multi-task setting.
- Synthesize knowledge and integrate the relevant aspects of a patient's history, physical findings and monitoring studies.

Additionally, candidates for the Doctor of Pharmacy degree must be able to use information to develop a drug therapy and monitoring plan in a reasonable amount of time.

5. Behavioral and Social Attributes

All candidates must be able to:

- Possess the emotional health required for full use of their intellectual abilities, the exercise of good judgment, and the prompt and safe completion of all responsibilities.
- Adapt to change, to display flexibility and to learn to function in the face of uncertainties and stressful situations.
- Possess compassion, integrity, interpersonal skills, motivation, empathy, and concern for others.
- Demonstrate ethical behavior.
- Function effectively in situations of physical and emotional stress.
- Accept appropriate suggestions and criticism and, if necessary, respond by modification.

Additionally, candidates for the Doctor of Pharmacy degree must be able to:

- Exercise good judgment and prompt completion of all responsibilities involved in the pharmaceutical care of patients.
- Have the capacity to develop mature, sensitive, and effective relationships with patients.

Admission into this degree program can occur in the fall of the freshman year, i.e., "Early Entry," but more typically after completion of the two-year pre-pharmacy curriculum at The University of Mississippi or other accredited institution, i.e., "Regular Entry."

A. EARLY ENTRY

Students granted early-entry status must enroll as freshmen on the Oxford campus. If these students abide by the progression and retention criteria detailed below, they will receive the B.S. in Pharmaceutical Sciences at the end of their fourth year and will be admitted into the Doctor of Pharmacy program or School of Pharmacy Ph.D. program of their choice.

The Early Entry Program provides the opportunity to engage in both professional and personal relationships with School of Pharmacy faculty and upper-classmen immediately upon entering the University, rather than after completing the normal two-year pre-pharmacy program.

Through the program, pharmacy students may take professional courses in their second year of college and reduce the rigor of the third year. Third-year performance is a major criterion for acceptance into the final two years of the Doctor of Pharmacy program. As a result of taking required professional courses in the second year, early-entry students have the opportunity to take professional electives in their third and fourth years, which is an opportunity not shared by regular-entry students.

Early-entry students avoid the competitive selection process for admission to the B.S. in Pharmaceutical Sciences program following completion of the pre-pharmacy curriculum.

Early-entry students are eligible for School of Pharmacy scholarships unavailable to pre-pharmacy students and may participate in professional student organizations earlier in their collegiate careers.

1. Criteria for Early Entry

Early entry into the B.S. in Pharmaceutical Sciences program is offered annually to a maximum of 50 outstanding high school seniors. Applicants who wish to be considered for early-entry status must meet the following minimum criterion:

Best Composite ACT Score + (GPA for grades 10, 11, and 12 x 10) > 65

Note: A minimum ACT score of 25 is required; SAT scores will be converted to the equivalent ACT score; GPA is based on a 4.0 scale; weighted GPAs will be used when provided by the high school.

Final consideration regarding candidates for early entry will rely on review of additional criteria, including an interview, written essay, and evaluation of scholastic and nonscholastic extracurricular and service activities and employment history. The composite admissions score is based on the following formula with 156 points being the maximum possible.

ACT + 10 x GPA	76 (assuming ACT of 36 and 4.0 GPA)
Interviews	40
Essay	25
Extracurricular Activities	15
Total Possible	156

Based on the composite admissions score, the top 10 students will receive an offer of a \$1,000 Early Entry Scholarship that is in addition to any other University award. Admission preference is given to Mississippi residents. However, application by non-Mississippi residents is encouraged with no residency preference being given to the top 25 applicants.

Eligible applicants not chosen for membership in the Early Entry class and who attend The University of Mississippi may be provided the opportunity to join the Early Entry program at the conclusion of either the fall or spring semester of the freshman year. The extension of such an offer is dependent on student attrition from the Early Entry program. Offers would be restricted to students having enrolled in a minimum of 15 hours and who have successfully completed the English, chemistry, and biology courses taken by Early Entry freshmen. Priority would be given to those students having the highest GPA on these and additional required Early Entry courses completed, with a minimum requirement of 3.25.

Students accepted for admission are required to submit a nonrefundable \$300 seat deposit to reserve their seat in the P1 class. Failure to submit the deposit, which will be credited to their tuition charges, by the announced deadline, will result in deselection.

2. Application Process

For consideration for early entry, qualified students must submit by February 1 a School of Pharmacy application and original transcript of all high school work completed through the fall semester of their senior year with indication of ACT (SAT) scores to this address: Associate Dean for Academic and Student Affairs, School of Pharmacy, The University of Mississippi, University, Mississippi 38677-1848. Students are encouraged at the time of Early Entry application to submit separate official transcripts and a University application to the University Admissions Office. Applicants must submit a nonrefundable application fee of \$50 (cashier's check made payable to The University of Mississippi School of Pharmacy) with the School of Pharmacy application. When applying to the University, applicants should list "pre-pharmacy" as their major under the School of Pharmacy listing.

3. Progression and Retention Criteria for Students in the Early Entry Program

In order to retain status as an early-entry student, the following conditions must be met:

- a. Continuous enrollment at The University of Mississippi (excluding summer terms) with completion of a minimum of 15 hours in each regular semester session.
- b. All required courses must be taken at The University of Mississippi in the sequence defined by the curriculum and completed by the end of the fourth year in the program. These must be taken during the fall and spring semesters. Any exception must have prior approval by the Scholastic Standards Committee. Elective courses may be taken at other institutions and/or during the summer.
- c. Minimum GPA (calculated using only the first grade reported) of 3.5 on all required courses through the spring semester of the first year (P1). Students who achieve a 3.25-3.49 will be placed on probationary status for the P2 year. They will retain all rights and privileges of early-entry status except they will lose school-sponsored early-entry scholarships. For early-entry students simultaneously enrolled in the Honors College, grades obtained in Honors 101 and 102 will be used in the calculation of this GPA. Students enrolled in formally designated honors sections of courses required of early-entry students will receive 5, 4, and 3 points respectively for an A, B, or C rather than the typical 4, 3, and 2 practice used in routine GPA calculations within the Early Entry Program.
- d. Minimum GPA (calculated using only the first grade reported) of 3.25 on all required courses through the spring semester of the second year (P2).
- e. Minimum GPA (calculated using only the first grade reported) of 3.0 on all required courses through the spring semester of the third year (P3).
- f. A grade of D or F in a required course will result in automatic dismissal from the Early Entry Program.
- g. A minimum composite PCAT score of at least the 50th percentile must be achieved prior to the end of the spring semester of the second year (P2).
- h. Early Entry graduates of the B.S. program who desire admission into a Ph.D. program also must meet all requirements for admission into the graduate program of the selected department. Acceptance into a Ph.D. program does not guarantee graduate stipend support.

Students who fail to maintain these criteria cannot regain early-entry status and will lose privileges of Early-Entry status. If they desire to later be readmitted to Pharmacy School, they will be classified as pre-pharmacy students and must reapply as Regular Entry applicants.

4. Curriculum

FIRST YEAR (P1)

First Semester	Hours	Second Semester	Hours
Liberal Arts 102 (English 101)	3	English 101 (Liberal Arts 102)	3
General Chemistry 105, 115	4	General Chemistry 106, 116	4
Biology 160, 161	4	Biology 162, 163	4
Speech 105 or 102	3	**Calculus I (MATH 261)	3
*Electives (nonprofessional)	3	*Electives (nonprofessional)	3
Total	17	Total	17

SECOND YEAR (P2)

First Semester	Hours	Second Semester	Hours
Organic Chemistry 221, 225	4	Organic Chemistry 222, 226	4
Statistics (MATH 115 or PSY 202)	3	Pharmaceutical Physics (PHYS 215)	4
Economics 202	3	Pharmacy Administration II (PHAD 392)	3
Pharmacy Administration I (PHAD 391)	3	Pharmacy Ethics (PHIL 326)	1
Pharmacy Orientation (PRCT 350)	1	*Electives (nonprofessional)	6
Pharmaceutical Calculations (PHAR 330)	2		
*Electives (nonprofessional)	3		
Total	19	Total	18

*Nonprofessional electives are to be taken as follows: 6 hours social or behavioral sciences (psychology, sociology, political science, economics, journalism, and social work), 9 hours of humanities (classics, African American studies, gender studies, Southern studies, English, history, modern languages, religion, and philosophy) and fine arts (art, music, and theatre arts) with a minimum of 3 hours in each of these two general areas. Performance courses are acceptable for satisfying the fine arts requirement. For students enrolled in the Honors College, credit obtained in Honors 101-102 will count toward fulfillment of the elective requirement in humanities and in the early-entry GPA. Although quality grades for elective courses are recorded, they are not included in the computation of the grade-point average (GPA) utilized in admissions, progression, or school scholarship decisions. In all cases, only the grades on "required" courses are used. Elective courses should be chosen on the basis of (1) student's likes and interests, and (2) potential contribution to professional success, rather than a lack of academic rigor.

**Lower-level math courses will not provide elective credit (algebra, trigonometry). Elective credit will be accepted for precalculus.

THIRD YEAR (P3)

First Semester	Hours
Human Physiology/Pathophysiology I (PHCL 341)	5
Basic Pharmaceutics I (PHAR 331)	4
Biochemical Foundations of Therapy (PHCL 343)	3
Professional Communications in Pharmacy (PHAD 490)	2
Electives (professional)	3
Total	17
Second Semester	
Human Physiology/Pathophysiology II (PHCL 342)	4
Basic Pharmaceutics II (PHAR 332)	4
Pharmacogenetics and Pharmacoinmunology (MEDC 317)	3
Principles of Medicinal Chemistry (MEDC 314)	3
Laboratory Principles of Medicinal Chemistry (MEDC 315)	1
Total	15

STUDENTS DESIRING TO COMPLETE THE PRACTICE TRACK IN THE B.S. IN PHARMACEUTICAL SCIENCES DEGREE PROGRAM AND TO THEN COMPLETE THE PHARM.D. PROGRAM WILL BE REQUIRED TO COMPLETE TWO TWO-WEEK FULL-TIME ROTATIONS, PRCT 475 AND PRCT 476 PRIOR TO THE P4 YEAR. THESE EXPERIENCES WILL NORMALLY OCCUR AT A TRADITIONAL COMMUNITY AND TRADITIONAL INSTITUTIONAL PRACTICE SITE, ALTHOUGH ONE ROTATION CAN OCCUR AT A NONTRADITIONAL SITE. HOWEVER BOTH ROTATIONS

CANNOT OCCUR IN EITHER TRADITIONAL COMMUNITY, TRADITIONAL INSTITUTIONAL, OR NONTRADITIONAL SITES. ENROLLMENT CAN OCCUR EITHER DURING AN INTERSESSION OR DURING THE SUMMER. EACH OF THESE COURSES IS ONE CREDIT HOUR. REQUESTS FOR DEFERRAL OF COMPLETION OF THESE EXPERIENCES MUST BE APPROVED IN ADVANCE BY THE SCHOLASTIC STANDARDS COMMITTEE.

FOURTH YEAR (P4)

Practice track curriculum for those who wish to pursue the Doctor of Pharmacy degree

First Semester	Hours
Basic and Clinical Pharmacology I (PHCL 443)	4
Medicinal Chemistry of Therapeutic Agents I (MEDC 411)	3
Pathogenesis and Etiology of Infectious Diseases (PHCG 421)	3
Pharmacy Practice I (PRCT 450)	2
Management (PHAD 493)	4
Electives (professional)	3
Total	19
Second Semester	
Basic and Clinical Pharmacology II (PHCL 444)	4
Medicinal Chemistry of Therapeutic Agents II (MEDC 412)	3
Natural Product-derived Pharmaceuticals (PHCG 422)	4
Biopharmaceutics-Pharmacokinetics (PHAR 434)	3
Pharmacy Practice II (PRCT 451)	2
Pharmacy Practice III (PRCT 452)	1
Pharmacy Law (PHAD 491)	2
Total	19

B. REGULAR ENTRY

For consideration for admission into the B.S. in Pharmaceutical Sciences program of the School of Pharmacy, qualified students must submit to the School of Pharmacy a School of Pharmacy application no later than February 1. Applicants who are not University of Mississippi students must also submit a separate University application to the Admissions Office of the University. The School of Pharmacy application must be submitted in conjunction with official college transcripts listing all pre-pharmacy course work attempted through the fall semester preceding the February application date. Transcripts for the spring semester are to be submitted as soon as possible after completion of spring courses. Applications will be reviewed and final decisions regarding admissions made by June 15.

Applicants must submit a nonrefundable application fee of \$50 (cashier's check made payable to The University of Mississippi School of Pharmacy) with the School of Pharmacy application. When applying to the University, applicants should list "pre-pharmacy" as their major under the School of Pharmacy listing.

Requests to transfer from students in good academic standing in professional programs at other ACPE-accredited schools of pharmacy will be considered on an individual basis. Such transfer can only occur prior to the beginning of the P4 year. If approved, the student may require one or two semesters, in addition to the P4 year as described below, to complete the B.S. in Pharmaceutical Sciences curriculum given the uniqueness of course sequencing in the different schools of pharmacy.

1. Admission Criteria

The minimum requirements for regular admission to the B.S. in Pharmaceutical Sciences program are as follows:

- a. Successful completion of all pre-pharmacy requirements. To be assured of consideration for admission, all required courses should be completed no later than the end of the spring semester during which formal application is submitted. Written requests for an exception to this policy must be submitted at the time of application. Requests to repeat a course resulting from failure to obtain a grade of C or better on prior course attempts will not be approved. All required and elective courses must be completed prior to enrollment in School of Pharmacy courses.
- b. A cumulative GPA (calculated on all grades earned) of at least 2.75 on all required pre-pharmacy courses (excluding electives in humanities, fine arts, and social sciences). Applicants completing chemistry, biology, or physics requirements more than five years prior to the February 1 application date must retake these courses unless they have been employed using discipline knowledge. For these applicants only, the initial grade received will not be calculated in the GPA used for admissions purposes. Otherwise ALL grades received in required pre-pharmacy courses will be computed in calculating the GPA. The only exception is students who utilize The University of Mississippi Forgiveness Policy. For applicants enrolled in The University of Mississippi Honors College, grades obtained in HONORS 101 and 102 will be used in the calculation of this GPA. Students receiving credit in formally designated Honors sections of required pre-pharmacy courses as well as for HONORS 101 and 102 will receive 5, 4, and 3 points respectively for an A, B, or C rather than the typical 4, 3, and 2 points used in routine GPA calculations.
- c. Grades of at least C in each of the required pre-pharmacy courses.
- d. Submission of an official score on the Pharmacy College Admission Test (PCAT) taken no more than 12 months prior to the application deadline. If multiple scores are submitted, the highest composite score achieved on a test taken no more than 12 months prior to the application deadline will be used. **A minimum composite percentile score of 40 is required to receive consideration for admission.**
- e. To be assured of consideration for admission to the B.S. in Pharmaceutical Sciences program, a completed School of Pharmacy application and all appropriate transcripts of pre-pharmacy academic work must be received no later than February 1. Scores from PCATs taken prior to the application deadline, but made available after the application deadline will be utilized. Students will be admitted on the basis of a composite admissions score determined by the following formula.

Maximum GPA on required pre-pharmacy courses (all grades inclusive)	4.0
Maximum PCAT composite score [(student score-200)/400] x 2.0	2.0
Maximum Watson-Glaser Critical Thinking Appraisal score x 0.01	1.0
Evaluation of resume material submitted on standardized forms during Applicant Day: 33.3% for leadership, 33.3% for services, and	

33.3% for work experience. In case of the latter parameter, the maximum score is only awarded to those with pharmacy experience. Only data on leadership, service, and work experience occurring in the previous two years will be evaluated with the exception that all pharmacy experience will be considered.

	2.0
Total possible score	9.0

In addition, two bonus factors will be added, to the admissions score.

(1) UM factor	0.4
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In order for a student to receive benefit of the UM factor, all required pre-pharmacy courses (excluding electives in humanities, fine arts, and social sciences) must be completed at The University of Mississippi Oxford campus. College credits or exemptions from college courses earned prior to either high school graduation or fall freshman admission will not disqualify a student from the UM factor.

(2) Previous degree factor

Awarding of previous (bachelor's, master's) degree in any major from an accredited institution. The bonus will be applied if the degree is awarded no later than the end of the spring semester (or equivalent) immediately preceding enrollment in the School of Pharmacy.

	0.5
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Completion of the minimum requirements will not ensure admission into the B.S. in Pharmaceutical Sciences program. Decisions regarding admissions to the B.S. in Pharmaceutical Sciences program will be based on policies established by the faculty. Preference will be given to U.S. citizens who are either residents of Mississippi or who are non-Mississippi students who completed their pre-pharmacy work at The University of Mississippi. Applications from outstanding students who are U.S. citizens, but nonresidents of Mississippi, who completed their pre-pharmacy course work at schools other than The University of Mississippi, will be given consideration for admission.

f. Students accepted for admission are required to submit a \$300 nonrefundable seat deposit to reserve their seat in the P3 class. Failure to submit the deposit, which will be credited to their tuition charges, by the announced deadline, will result in deselection.

2. Progression and Retention Criteria for the B.S. in Pharmaceutical Sciences Degree Program

In order to progress in the program, a student must meet the following conditions:

- a. All required courses must be taken at The University of Mississippi in the sequence defined by the curriculum. Any exception must have prior approval by the Scholastic Standards Committee.
- b. Minimum GPA (cumulative on all grades earned) of 2.0 on required courses.

- c. A passing grade of D or better must be achieved in all required professional courses in order to progress to the next year. However, a grade of C or better is necessary to satisfy prerequisite requirements.
- d. Any student who receives a final course grade of F in two or more required courses during the two-year period will be automatically dismissed from the program. A student so dismissed can only be readmitted one time (see below) and must begin the program with the P3 fall courses and repeat all previously passed courses.
- e. No required practice track course can be taken more than two times.

Students who are academically dismissed from the B.S. in Pharmaceutical Sciences program during or at the conclusion of the P3 year can be re-admitted one time to the program. Re-admission is contingent on the individual having a composite admission score at least equal to that of the lowest ranking newly admitted student. The re-entering student would be admitted on a space-available basis in addition to the maximum number of new students accepted for admission. During the period while the student is not in the program, the student can attempt to improve his/her admission score. The re-entering student must retake all required P3 courses. Grades obtained by the dismissed student during the original enrollment in P3 courses will not be used in future GPA calculations affecting entry into the Pharm.D. or other tracks.

The same procedures would be in effect for students dismissed or voluntarily withdrawing for academic purposes during or at the conclusion of the P4 year.

Students who desire to repeat one or more, but not all, P3 or P4 courses will be admitted to these classes on a space-available basis. Prioritization for admission will be based on the existing cumulative required P3 or P4 course GPA.

Approximately 95 percent of students who enter the P3 program ultimately receive the B.S. in Pharmaceutical Sciences degree.

3. Curriculum

Courses listed in parentheses are the courses required for University of Mississippi pre-pharmacy students. Numbers in brackets refer to appropriate courses required of graduates of Mississippi community or junior colleges.

FIRST YEAR

First Semester	Hours	Second Semester	Hours
English I (ENG 101) [1113 or 1213]	3	English II (ENG 102) [1123 or 1223]	3
Gen. Chemistry I (CHEM 105, 115) [1211 and 1213, or 1214]	4	General Chemistry II (CHEM 106, 116) [1221 and 1223, or 1224]	4
+Biology I (BIOL 160, 161) [1131 and 1133, or 1134, or 1154, or 1151 and 1153]	4	+Biology II (BIOL 162, 163) [1141 and 1143, or 1144, or 1164, or 1161 and 1163]	4
Speech (SPCH 102 or 105) [1113 or 2163]	3	Calculus I (MATH 261) [1613 or 1653, or 1814]	3
*Electives (<i>nonprofessional</i>)	3	*Electives (<i>nonprofessional</i>)	3
Total	17	Total	17

SECOND YEAR

First Semester	Hours	Second Semester	Hours
Organic Chemistry I (CHEM 221, 225) [2421 and 2423, or 2424 or 2425]	4	Organic Chemistry II (CHEM 222, 226) [2431 and 2433, or 2434 or 2435]	4
Microeconomics (ECON 202) [2123]	3	Physics II (PHYS 214, 224) [2421 and 2423, or 2424]	4
Physics I (PHYS 213, 223) [2411 and 2413, or 2414]	4	Statistics (MATH 115 or PSY 202) [MATH 2323]	3
*Electives (<i>nonprofessional</i>)	6	*Electives (<i>nonprofessional</i>)	3
Total	17	Total	14

*The 15 hours of nonprofessional electives must include 6 hours of social or behavioral sciences (psychology, sociology, political science, economics, journalism, and social work), and 9 hours of humanities (classics, African American studies, gender studies, Southern studies, English, history, modern languages, and religion and philosophy) and fine arts (art, music, and theatre arts) with a minimum of 3 hours in each of these two general areas. Performance course credits are acceptable for the fine arts requirement.

+A two-semester laboratory sequence required of either biology majors or of pre-med students at the institution of residence is required. The sequence must be completed at the same institution.

Although quality grades obtained in elective courses are recorded, they actually have no effect on a student's admission into the professional program, progression through the program, or graduation from the school. In all cases, only the grades on "required" courses are computed. Elective courses should be chosen on the basis of (1) student's likes and interests, and (2) potential contribution to professional success rather than lack of academic rigor.

THIRD YEAR (P3)

First Semester	Hours
Human Physiology/Pathophysiology I (PHCL 341)	5
Basic Pharmaceutics I (PHAR 331)	4
Biochemical Foundations of Therapeutics (PHCL 343)	3
Pharmacy Administration I (PHAD 391)	3
Pharmaceutical Calculations (PHAR 330)	2
Pharmacy Orientation (PRCT 350)	1
Total	18
Second Semester	
Human Physiology/Pathophysiology II (PHCL 342)	4
Basic Pharmaceutics II (PHAR 332)	4
Pharmacogenetics and Pharmacoinmunology (MEDC 317)	3
Principles of Medicinal Chemistry (MEDC 314)	3
Laboratory Principles of Medicinal Chemistry (MEDC 315)	1
Pharmacy Administration II (PHAD 392)	3
Pharmacy Ethics (PHIL 326)	1
Total	19

STUDENTS DESIRING TO COMPLETE THE PRACTICE TRACK IN THE B.S. IN PHARMACEUTICAL SCIENCES DEGREE PROGRAM AND TO THEN COMPLETE THE

PHARM.D. PROGRAM WILL BE REQUIRED TO COMPLETE TWO TWO-WEEK FULL-TIME ROTATIONS, PRCT 475 AND PRCT 476 PRIOR TO THE P4 YEAR. THESE EXPERIENCES WILL NORMALLY OCCUR AT A TRADITIONAL COMMUNITY AND TRADITIONAL INSTITUTIONAL PRACTICE SITE, ALTHOUGH ONE ROTATION CAN OCCUR AT A NONTRADITIONAL SITE. HOWEVER BOTH ROTATIONS CANNOT OCCUR IN EITHER TRADITIONAL COMMUNITY, TRADITIONAL INSTITUTIONAL, OR NONTRADITIONAL SITES. ENROLLMENT CAN OCCUR EITHER DURING AN INTERSESSION OR DURING THE SUMMER. EACH OF THESE COURSES IS ONE CREDIT HOUR. REQUESTS FOR DEFERRAL OF COMPLETION OF THESE EXPERIENCES MUST BE APPROVED IN ADVANCE BY THE SCHOLASTIC STANDARDS COMMITTEE.

FOURTH YEAR (P4)

a. Practice Track

Practice track curriculum for those who wish to pursue the Doctor of Pharmacy degree

First Semester	Hours
Basic and Clinical Pharmacology I (PHCL 443)	4
Medicinal Chemistry of Therapeutic Agents I (MEDC 411)	3
Pathogenesis and Etiology of Infectious Diseases (PHCG 421)	3
Pharmacy Practice I (PRCT 450)	2
Management (PHAD 493)	4
Professional Communication in Pharmacy (PHAD 490)	2
Total	18
Second Semester	
Basic and Clinical Pharmacology II (PHCL 444)	4
Medicinal Chemistry of Therapeutic Agents II (MEDC 412)	3
Natural Product-derived Pharmaceuticals (PHCG 422)	4
Biopharmaceutics-Pharmacokinetics (PHAR 434)	3
Pharmacy Practice II (PRCT 451)	2
Pharmacy Law (PHAD 491)	2
Pharmacy Practice III (PRCT 452)	1
Total	19

b. Nonpractice Curricular Tracks

These curricula are identical to the practice track curriculum for the first three years but differ dramatically from that in the fourth year. They are designed to provide career preparation for students interested in pharmacy-related careers, e.g., research, marketing, but not desiring to become a pharmacist.

1. Pharmaceutical Marketing/Management—A concentration leading to the B.S. in Pharmaceutical Sciences/marketing-management consists of the successful completion of the first three years of the B.S. in Pharmaceutical Sciences curriculum followed by a minimum of 32 hours in the marketing-management track within the fourth year of the B.S. in Pharmaceutical Sciences curriculum.

Admission: Completion of the third year of the B.S. in the Pharmaceutical Sciences curriculum with a minimum GPA of 2.00 on required professional courses.

Career opportunities for students completing this track include: a) pharmaceutical sales, b) management within a pharmaceutical company, c) pharmacy management positions, d) positions in managed-care organizations, e) hospital administration, f) government agencies, g) positions in health advertising agencies, h) medical journalism, and i) graduate studies in a number of areas, including pharmacy administration.

**FOURTH YEAR (P4)
Management Concentration
Standard Option**

First Semester	Hours
Basic and Clinical Pharmacology I (PHCL 443)	4
Principles of Management (MGMT 371)	3
Pharmacy Management and Business Methods (PHAD 493)	4
Pharmaceutical Economics (PHAD 494)	3
Elective	3
Total	17
Second Semester	
Basic and Clinical Pharmacology II (PHCL 444)	4
Principles of Marketing (MKTG 351)	3
Electives	9
Total	16

**Management Concentration
Anti-infective Option**

First Semester	Hours
Basic and Clinical Pharmacology I (PHCL 443)	4
Principles of Management (MGMT 371)	3
Pharmacy Management (PHAD 493)	4
Pharmaceutical Economics (PHAD 494)	3
Pathogenesis and Etiology of Infectious Diseases (PHCG 421)	3
Total	17
Second Semester	
Basic and Clinical Pharmacology II (PHCL 444)	4
Natural Product-derived Pharmaceuticals (PHCG 422)	4
Electives	9
Total	17

Electives:

Electives are to be selected in conference with the student's track adviser and with his/her approval. Elective hour minimums are affected by program option selected. These electives must be chosen from courses in pharmacy administration or from courses in management.

Pharmacy Administration

- PHAD 490 Professional Communications in Pharmacy (fall only) (2)
 PHAD 491 Pharmacy Law (spring only) (2)
 PHAD 495 Techniques of Pharmaceutical Sales (spring only) (2)
 PHAD 541, 542 Problems in Pharmacy Administration (fall, spring) (3,3)
 PHAD 543, 544 Seminars (fall, spring) (1,1)

Management

- MGMT 383 Human Resource Management (fall, spring, summer) (3)
 MGMT 391 Organization Behavior (fall, spring, summer) (3)
 MGMT 496 Small Business Management (3)

FOURTH YEAR (P4)
Marketing Concentration
Standard Option

First Semester

	Hours
Basic and Clinical Pharmacology I (PHCL 443)	4
Principles of Management (MGMT 371)	3
Principles of Marketing (MKTG 351)	3
Pharmaceutical Economics (PHAD 494)	3
Electives	3
Total	16

Second Semester

Basic and Clinical Pharmacology II (PHCL 444)	4
Principles of Pharmaceutical Marketing (PHAD 496)	3
Electives	9
Total	16

Marketing Concentration
Anti-infective Option

First Semester

	Hours
Basic and Clinical Pharmacology I (PHCL 443)	4
Principles of Marketing (MKTG 351)	3
Pharmaceutical Economics (PHAD 494)	3
Pathogenesis and Etiology of Infectious Diseases (PHCG 421)	3
Electives	3
Total	16

Second Semester

Basic and Clinical Pharmacology II (PHCL 444)	4
Principles of Pharmaceutical Marketing (PHAD 496)	3
Natural Product-derived Pharmaceuticals (PHCG 422)	4
Electives	6
Total	17

Electives

Electives are to be selected in conference with the student's track adviser and with his/her approval. A minimum of 12 hours (3 hours in the fall semester and 9 hours in the spring semester) of electives must be selected from courses in pharmacy administration or from courses in marketing.

Pharmacy Administration

- PHAD 490 Professional Communications in Pharmacy (fall only) (2)
- PHAD 491 Pharmacy Law (spring only) (2)
- PHAD 493 Pharmacy Management (fall only) (4)
- PHAD 495 Techniques of Pharmaceutical Sales (spring only) (2)
- PHAD 541, 542 Problems in Pharmacy Administration (fall, spring) (3,3)
- PHAD 543, 544 Seminars (fall, spring) (1,1)

Marketing

- MKTG 354 Buyer-Seller Communication (3)
- MKTG 361 Introduction to Retailing (3)
- MKTG 367 Consumer and Market Behavior (3)
- MKTG 458 Sales Management (fall only) (3)
- PHAD 493 Pharmacy Management

Other

- BUS 230 Economic Statistics (3)

2. **Pharmaceutics**—A concentration leading to the B.S. in Pharmaceutical Sciences/pharmaceutics consists of the successful completion of the first three years of the B.S. in Pharmaceutical Sciences curriculum, followed by competitive admission to the program and completion of the fourth-year courses given below.

Admission: The number of students accepted into the pharmaceutics program is limited by department resources. Competitive admission to the program depends on:

- a) A minimum GPA of 3.0 in pharmaceutics courses and 2.0 in nonpharmaceutics pharmacy courses.
- b) A successful departmental interview.
- c) A letter of recommendation from a School of Pharmacy faculty member.

This curriculum is designed to provide the student with a broad pharmacy background with enhanced training in pharmaceutics. The analytical pharmaceutics course is a four-hour lecture/lab course that will provide the student with the basic skills needed to conduct pharmaceutics research in an industrial or university setting. The product development course will enhance the student's understanding of dosage form development. In the two-semester Problems in Pharmaceutics sequence, the student will conduct a research project under the direction of one of the department faculty, prepare monthly written progress reports, and present a seminar upon completion of the project.

Successful completion of this program should prepare a student for graduate studies in pharmaceutics or an entry-level position in the pharmaceutical industry in product development, clinical supply manufacture, or production departments.

**FOURTH YEAR (P4)
Pharmaceutics Concentration**

First Semester	Hours
Basic and Clinical Pharmacology I (PHCL 443)	4
Medicinal Chemistry of Therapeutic Agents I (MEDC 411)	3
Pathogenesis and Etiology of Infectious Diseases (PHCG 421)	3
Analytical Pharmaceutics (PHAR 535)	4
Problems in Pharmaceutics (PHAR 541)	3
Total	17

Second Semester	Hours
Basic and Clinical Pharmacology II (PHCL 444)	4
Medicinal Chemistry of Therapeutic Agents II (MEDC 412)	3
Biopharmaceutics-Pharmacokinetics (PHAR 434)	3
Product Development (PHAR 436)	3
Problems in Pharmaceutics (PHAR 542)	3
Total	16

3. Natural Product Drug Discovery and Development (Pharmacognosy)—A concentration leading to the B.S. in Pharmaceutical Sciences/natural product drug discovery and development (pharmacognosy) consists of the successful completion of the first three years in the B.S. in Pharmaceutical Sciences curriculum, followed by competitive admission to the program and a successful completion of the fourth-year curricular track as outlined below.

Admission: Competitive admission to this lecture and laboratory track is limited by the availability of space and will depend on the student meeting the specific requirements below.

- a) A minimum GPA of 2.75 obtained on all courses completed during the third year (P3) of the B.S. in Pharmaceutical Sciences curriculum or approval by the departmental faculty.
- b) A letter of application indicating the reasons for selecting this track and how it fits into the applicant's future goals along with a successful interview conducted by the departmental faculty.

**FOURTH YEAR (P4)
Natural Product Drug Discovery and Development Concentration**

First Semester	Hours
Basic and Clinical Pharmacology I (PHCL 443)	4
Medicinal Chemistry of Therapeutic Agents I (MEDC 411)	3
Pathogenesis and Etiology of Infectious Diseases (PHCG 421)	3
Drug Discovery I (PHCG 427)	3
Seminar on Topics of Interest in Natural Products Chemistry (PHCG 543)	1
Botanicals and Traditional Medicine (PHCG 429)	2
*Electives	3
Total	19

Second Semester

Basic and Clinical Pharmacology II (PHCL 444)	4
Medicinal Chemistry of Therapeutic Agents II (MEDC 412)	3
Natural Product-derived Pharmaceuticals (PHCG 422)	4
Drug Discovery II (PHCG 428)	3
Seminar on Topics of Interest in Natural Products Chemistry (PHCG 544)	1
*Electives	3
Total	18

*Electives may be selected from the following list; other courses require prior approval by the departmental faculty.

CHEM 471, 473 (Biochemistry, 3 hours each)

BISC 340 (Cell and Molecular Biology, 3 hours)

PHCG 541, 542 (Problems in Pharmacognosy, 1-4 hours each)

PHCG 522 (Cultivation and Processing of Medicinal Plants, 2 hours)

BISC 320 (Introductory Marine Biology, 3 hours)

BISC 322 (General Ecology, 4 hours)

BISC 341 (Plant Taxonomy, 4 hours)

BISC 342 (Spring and Summer Flora of Mississippi, 4 hours)

BISC 502 (Mycology, 4 hours)

PHCG 545, 546 (Individual Study in Pharmacognosy Research, 1-6 hours)

4. Pharmacology/Toxicology—A concentration leading to the B.S. in Pharmaceutical Sciences with specialization in pharmacology/toxicology consists of the successful completion of the first three years of the B.S. in Pharmaceutical Sciences curriculum followed by competitive admission into the program and completion of the fourth year as described below. Individuals admitted may choose to emphasize areas that include environmental toxicology, cardiovascular pharmacology, CNS pharmacology, or nutritional or biochemical pharmacology/toxicology. This degree option provides an opportunity for the student to participate in basic and applied research projects (Problems in Pharmacology/Toxicology, PHCL 541). The graduate should have obtained knowledge and skills necessary to compete for entry-level positions in pharmaceutical, environmental toxicological, or other biomedical science laboratories. The preparation received also should qualify the graduate to obtain admission to graduate programs in pharmacology/toxicology and related fields.

Admission: Acceptance of students into this track will be limited dependent upon the availability of space for the laboratory-intensive courses. A competitive admission process will be used in the acceptance of undergraduate students, which depends upon:

- a cumulative three-year minimum GPA of 2.75 or approval of the faculty.
- a 2.00 minimum GPA on all required courses through the third year of the B.S. in Pharmaceutical Sciences curriculum.
- a C grade minimum on third-year PHCL courses and Medicinal Chemistry 317.
- a letter of application including the reasons for selecting this track and the student's future goals.
- a successful personal interview by departmental faculty.

FOURTH YEAR (P4) Pharmacology/Toxicology Concentration

First Semester	Hours
Introduction to Toxicology (PHCL 381)	3
Methods in Pharmacology and Toxicology I (PHCL 503)	2
Biometry (BISC 504)	3
Current Topics in Pharmacology/Toxicology (PHCL 543)	1
Basic and Clinical Pharmacology I (PHCL 443)	4
*Elective	3-4
Total	16-17
Second Semester	
Introduction to Environmental Toxicology (PHCL 347)	3
Methods in Pharmacology and Toxicology II (PHCL 504)	2
Current Topics in Pharmacology/Toxicology (PHCL 543)	1
Basic and Clinical Pharmacology II (PHCL 444)	4
Problems in Pharmacology and Toxicology (PHCL 541)	3
*Elective	3-6
Total	16-19

*Electives may be selected from the following list, or others may be chosen with prior approval of the departmental faculty:

Medicinal chemistry: Medicinal Chemistry of Therapeutic Agents I and II (MEDC 501, 502, each 3 hours)

Biology: Cell and Molecular Biology (BISC 340, 3 hours); Cell Physiology (BISC 521, 4 hours)

Pharmacognosy: Pathogenesis and Etiology of Infectious Diseases (PHCG 421, 3 hours); Natural Product-derived Pharmaceuticals (PHCG 422, 4 hours)

Pharmaceutics: Biopharmaceutics-Pharmacokinetics (PHAR 434, 3 hours)

Psychology: Drugs and Behavior (PSY 411, 3 hours)

5. Medicinal Chemistry—A concentration leading to the B.S. in Pharmaceutical Sciences/medicinal chemistry consists of the successful completion of the first three years of the B.S. in Pharmaceutical Sciences curriculum, followed by competitive admission to the program and a minimum of 30 hours in the medicinal chemistry track within the fourth year of the B.S. in Pharmaceutical Sciences curriculum. The degree program emphasizes advanced medicinal chemistry, synthetic chemistry, laboratory skills, and elective areas that can include natural product chemistry, pharmacology, biochemistry, organic chemistry, analytical chemistry, or biology. The degree program provides an environment for the student to conduct basic and applied research (Problems in Medicinal Chemistry) and an opportunity to improve his or her science communication skills. A graduate with a B.S. in Pharmaceutical Sciences/medicinal chemistry should possess the knowledge and skills necessary to compete for positions in the pharmaceutical, agrochemical, and specialty chemical industries. Also, this graduate should have the education and training required for admission into graduate programs in medicinal chemistry and related fields.

Admission: Because medicinal chemistry is a laboratory intensive course of study, the total number of students admitted to the track leading to the B.S. in Pharmaceutical Sciences/medicinal chemistry will be limited by the availability of quality laboratory space. Competitive admission to the program depends on

- a) a 2.00 GPA or higher obtained on all courses completed during the P3 year of the B.S. in Pharmaceutical Sciences curriculum.
- b) a minimum of a cumulative 2.50 GPA achieved in 20 credit hours of medicinal chemistry and chemistry courses consisting of General Chemistry I, II (8 hours); Organic Chemistry I, II (8 hours); Principles of Medicinal Chemistry (MEDC 314, 3 hours); and Laboratory Principles of Medicinal Chemistry (MEDC 315, 1 hour); or approval of the department.
- c) a C grade minimum on each of the medicinal chemistry and chemistry courses required above, or approval of the department.
- d) a letter of application indicating the reasons for selecting this track and how it fits into the applicant's future goals along with a completed application form and a successful departmental interview.

FOURTH YEAR (P4) Medicinal Chemistry Concentration

First Semester	Hours
Advanced Medicinal Chemistry I (MEDC 501) or equivalent	3
Problems in Medicinal Chemistry (MEDC 541)	3
Medicinal Chemistry Research Methodology (MEDC 503)	3
Seminar on Current Medicinal Chemistry Topics (MEDC 543)	1
Intermediate Organic Chemistry (CHEM 524) OR elective*	3
Elective—from list below; choice made with adviser's concurrence	3-4
Total	16-17
Second Semester	
Advanced Medicinal Chemistry II (MEDC 502)** or equivalent	3
Problems in Medicinal Chemistry (MEDC 542)	4
Seminar on Current Medicinal Chemistry Topics (MEDC 544)	1
Organic Chemistry of Drug Synthesis (MEDC 507)**	3
Elective—from list below; choice made with adviser's concurrence	3-4
Total	14-15

*Department prefers CHEM 524; however, it is a 500-level graduate course, and a student must be within 15 semester hours of the bachelor's degree to enroll in a maximum of 3 semester hours of graduate credit and within 12 semester hours of the bachelor's degree to enroll in a maximum of 6 semester hours of graduate credit.

**May be taken for graduate credit if Graduate School requirements are satisfied.

ELECTIVES: Electives may be selected from the following list; other courses require prior approval by the departmental faculty.

Pharmacology: Basic and Clinical Pharmacology I, II (PHCL 443, 444; 4 hours each), Introductory Pharmacology I, II (PHCL 563, 564; 4 hours each)

Pharmacognosy: Pathogenesis and Etiology of Infectious Diseases (PHCG 421, 3 hours), Natural Product-derived Pharmaceuticals (PHCG 422, 4 hours)

Biochemistry: Biochemistry (CHEM 471, 473; 3 hours)

Other chemistry: Quantitative Analysis (CHEM 413, 3 hours), Introduction to the Chemistry of Natural Products (CHEM 320, 3 hours), Biophysical Chemistry (CHEM 334, 3 hours), Clinical Chemistry (CHEM 414, 4 hours), Computer Methods in Chemistry (CHEM 415, 3 hours), Qualitative Organic Analysis (CHEM 423, 3 hours)

Biology: Cell and Molecular Biology (BISC 340, 3 hours)

C. GENERAL COMMENTS

1. Computer Requirements

Students in the B.S. in Pharmaceutical Sciences program are required to possess a laptop computer upon enrollment. Early-entry students are required to have this equipment prior to the fall semester of their P2 year. Minimal hardware and software specifications are updated annually by the School of Pharmacy Instructional Technology Committee, after consultation with the University Department of Information Technology. The revised specifications will be available each June from the Office of the Associate Dean for Academic and Student Affairs. They also will be listed on the school homepage at <http://www.olemiss.edu/depts/pharmacy>. The school philosophy is that these minimal specifications will provide the appropriate computing power and capabilities needed to complete the Doctor of Pharmacy program for that class of entering B.S. in Pharmaceutical Sciences students.

2. Financial Obligations

All financial obligations to the University and to the School of Pharmacy Student Body, as well as obligations to on-campus chapters of professional pharmacy student organizations in which the student has accepted membership, must be satisfied in order to progress to the next academic year and to receive the B.S. in Pharmaceutical Sciences diploma.

3. Liability/Malpractice Insurance

Students pursuing the practice track will be required annually at the student's expense to offer proof (for example, photocopy of the certificate of insurance with dates of coverage included), prior to the completion of the P3 year and extending through completion of the P6 year of the Doctor of Pharmacy curriculum, of personal/professional liability coverage (a minimum of \$1 million per individual claim, \$3 million per incident).

4. Immunization

Bachelor of Science practice track students (at the students' expense) will be required to demonstrate proof of completion of the three-shot series of hepatitis B vaccinations prior to completion of the P3 year. If a student has not been immunized previously against hepatitis B, he or she should complete the series of three injections, which are to be administered over a six-month period during the P3 year. More than 90 percent of students so immunized will demonstrate a positive antibody titer within one month after completion of the injection schedule. Students may want to ascertain their immune status prior to beginning this expensive series (\$125-\$150) of injections since about 10 percent of the population is immune without having a documented history of having an active case of hepatitis B.

Students also will be required to have a PPD test (negative X-ray if previously PPD positive) prior to completing the fall semester of the P3 year and spring of the P4 year. Students having a positive PPD test must, by negative chest X-ray, demonstrate lack of an active case of tuberculosis or offer proof that they are undergoing treatment if currently infected.

5. Extern or Pharmacist Registration with the Mississippi State Board of Pharmacy (MSBP)

All students must present proof of extern/intern registration with the MSBP prior to participating in the experiential program, i.e., before the end of the P3 fall semester. A photocopy of the entry-level student's MSBP extern card is acceptable documentation.

6. Programmatic Assessment

Students' participation in programmatic assessment activities occurs during P3 orientation sessions during the spring of the P4 and P6 years. All students are required to participate in these activities in order for verification of their diploma application to proceed. Students are expected to take these activities seriously and to perform to the best of their ability. Otherwise, the results of these assessments would be invalid and unreliable and lead to inappropriate programmatic changes.

7. Curricular Philosophy

The curricular philosophy for the entry-level Doctor of Pharmacy program is an amalgamation of four general principles. Completion of the curriculum will (1) prepare practitioners who can effectively participate in the pharmaceutical care practice model as defined below, (2) ensure the development of a defined set of general and professional educational abilities listed below, as well as appropriate content knowledge, (3) ensure that students become active, rather than passive, learners, and (4) ensure the development of higher-order thinking skills. These principles and curricular characteristics are evident in all four years of the professional program (P3 year and P4 practice track curriculum extending into and throughout the P5 and P6 years).

a. Pharmaceutical Care

The curriculum leading ultimately to the Doctor of Pharmacy degree is designed to provide the abilities necessary for the graduate to be capable of providing acceptable levels of pharmaceutical care. Pharmaceutical care is the responsible provision of drug therapy for the purpose of achieving definite outcomes that improve a patient's quality of life. These outcomes are (1) cure of a disease, (2) elimination or reduction of a patient's symptomatology, (3) arresting or slowing of a disease process, or (4) preventing a disease or symptomatology.

Pharmaceutical care involves the process through which a pharmacist cooperates with a patient and other professionals in designing, implementing, and monitoring a therapeutic plan that will produce specific therapeutic outcomes for the patient. This, in turn, involves three major functions: (1) identifying potential and actual drug-related problems, (2) resolving actual drug-related problems, and (3) preventing potential drug-related problems.

Pharmaceutical care is a necessary element of health care, and should be integrated with other elements. Pharmaceutical care is, however, provided for the direct benefit of the patient, and the pharmacist is responsible directly to the patient for the quality of that care. The fundamental relationship in pharmaceutical care is a mutually beneficial exchange in which the patient grants authority to the pharmacist and the pharmacist gives competence and commitment (accepts responsibility) to the patient. The mission of a pharmacy practitioner is the distribution of optimal pharmaceutical care in addition to accurate distribution of drugs.

b. Abilities-based Curriculum

An ability comprises a combination of knowledge, skill, and attitude. The curriculum culminating in the awarding of the Doctor of Pharmacy degree is ability-based, rather than entirely content-focused. Successful completion of the program will ensure the development of both general and professional abilities. Progression through the four-year curriculum provides for the formulation and continuous strengthening of these abilities.

1. General Abilities

Critical Thinking, Analysis, and Decision-making

The student can find, understand, analyze, evaluate, and synthesize information and make informed, rational, and responsible decisions.

Communication Skills

The student can communicate with various audiences by written, verbal, and electronic media for a variety of purposes.

Mathematical Competence

The student is proficient in the expression of quantitative relationships and can perform the needed mathematical operations to infer their consequences.

Scientific and Scholarly Comprehension

The student can evaluate the scientific and scholarly validity of inferences drawn from evidence or experiments.

Social Skills

The student can make judgments informed by historical, social, economic, scientific, and political contexts and is respectful of the cultural differences between those of diverse ethnic, sexual, age, and religious groups.

Self and Social Awareness

The student demonstrates an understanding of self and others, which enhances personal and professional relationships.

Ethics

The student can use clearly defined ethical principles as a basis for conduct in personal and professional settings.

Citizenship and Leadership

The student understands the individual's role as a member of professional and civic affiliations and exhibits the capacity to contribute to and to assume leadership roles within these communities as is appropriate.

Self-learning Abilities and Habits

The student exhibits intellectual curiosity, takes responsibility for gaining new knowledge and skills, can self assess and adapt to change, and exhibits creativity in developing these habits.

2. Professional Abilities

Assess patient drug therapy

Collect and organize patient data, medical records, interviews, and psychomotor evaluations; evaluate and interpret patient data; apply knowledge of specified drugs; apply knowledge of specific physiologic systems; and apply knowledge of specific disease pathology and comorbid conditions.

Develop comprehensive patient-specific drug therapy plans

Apply understanding of indications for pharmacologic and nonpharmacology therapy; apply clinical reasoning skills in drug product selection, chemical entity, dosage formulation; develop appropriate dosing regimens that reflect application of knowledge of pharmaceutical calculations, initial dose, dose titration, and dosage adjustments; develop rational plans for monitoring therapeutic outcomes; develop rational plan for monitoring and managing adverse events; develop plan for

anticipating, avoiding, and resolving drug interactions, drug-drug interaction, drug-food interaction, drug-disease interaction, drug-lab interaction, and drug-procedure interaction; and develop plans for patient education on drug therapy and healthy lifestyle alternatives.

Manage professional practice

Use resource management to maximize pharmaco-economic outcomes, payment issues, personnel management, time management, and technology; appropriately manage drug distribution; apply ethics and value systems to practice, personnel management, treatment choices, and confidentiality; demonstrate entrepreneurial and intrapreneurial initiative, specialization, and innovative reimbursement strategies; and practice in accordance with state and federal regulations and statutes.

Collaborate with patients, caregivers, and health professionals

Employ communication styles and techniques appropriate to the audience; work effectively within multidisciplinary and interdisciplinary environment; include patient and caregiver as integral parts of a treatment plan; work cooperatively to facilitate support groups (e.g., Alcoholics Anonymous, Epilepsy Foundation).

Evaluate pertinent scientific literature to optimize patient care

Apply understanding to statistical methods; apply understanding of research design principles; evaluate research outcomes for validity; perform effective biomedical literature search and retrieval.

Demonstrate understanding of health problems specific to diverse populations

Display empathy in patient interactions; apply understanding of developmental and degenerative factors that influence health and health care; display sensitivity to differences in ethnicity, gender, values or belief systems; apply understanding of social and economic factors that influence health and health care.

Provide comprehensible, effective education to patients, health care professionals, and the public

Serve as reliable and credible source of drug information; effectively educate patients using all appropriate communication modalities (verbal, written, other); apply knowledge of roles of advocacy and support organizations (e.g., AA, Epilepsy Foundation) to practice; present effective educational programs and presentations to public and health care profession audiences.

Accurately and comprehensibly document recommendations and services

Document patient care in an orderly and proficient manner; use standard medical record documentation formats, apply knowledge of protocols to initiate and modify drug therapy; write effective proposals for disease state management.

Analyze internal and external factors that influence pharmacy and other health care systems

Demonstrate knowledge of the impact of health care systems on pharmacy practice; demonstrate understanding of the influences of legislation on pharmacy practice; demonstrate understanding of the roles of professional organizations; demonstrate understanding of the influences of market forces on pharmacy practice.

3. Active Learning

Instructional methodology emphasizes active (independent) rather than passive (dependent) learning. A characterization of active learning is as follows:

Most students enter pharmacy schools as dependent learners; that is, they enter with the perception that it is the teachers' responsibility to teach students, while de-emphasizing, if not ignoring, the responsibility of students to learn on their own. Students come to health professional schools adept at memorizing facts, and the teaching methods at most professional schools readily focus on this characteristic. In practice, the practitioner must rely on his or her ability to interpret data in order to reach conclusions and solve problems. There is no "teacher" in practice (except other practitioners and the patient). Consequently, in practice, the responsibility to learn must reside with the learner/practitioner. And so it must be while in the School of Pharmacy. The responsibility to learn must rest with the learner/student, not with the teacher.

It follows, then, that a major responsibility of pharmacy educators is to shift the burden of learning from the teacher to the student. The transition from a dependent learner to an independent learner must occur as the student progresses through the pharmacy curriculum. Students must understand that to become educated is to know what questions to ask and where the answers may be found.

Teaching must be achieved through educational processes that involve students as active learners. One measure of achieving this goal is to require participation in cooperative learning projects. Teachers must view themselves as coaches and facilitators rather than merely as providers and interpreters of information. As students move from the P3 to the P6 years, increasing emphasis is placed on active learning strategies.

4. Development of Higher-order Thinking Skills

Closely aligned with the incorporation of active learning strategies is the formatting of class evaluation instruments to include more emphasis on higher-order thinking skills. Different questions require different levels of thinking. Lower-level questions are appropriate for assessing students' preparation and comprehension or for reviewing and summarizing content. Higher-level questions encourage students to think critically and to solve problems. Various researchers have developed cognitive schemes for classifying questions. Bloom's system of ordering thinking skills from lower to higher has become a classic and includes the following skills:

- Knowledge skills (remembering previously learned material such as definitions, principles, formulas): "Define shared governance." "What are Piaget's stages of development?"
- Comprehension skills (understanding the meaning of remembered material, usually demonstrated by restating or citing examples): "Explain the process of mitosis." "Give some examples of alliteration."
- Application skills (using information in a new context to solve a problem, answer a question, perform a task): "How does the concept of price elasticity explain the cost of oat bran?" "Given the smallness of the sample, how would you analyze these data?"
- Analysis skills (breaking a concept into its parts and explaining their interrelationships; distinguishing relevant from extraneous material): "What factors affect the price of gasoline?" "Point out the major arguments Shelby Steele uses to develop his thesis about affirmative action."

- Synthesis skills (putting parts together to form a new whole; solving a problem requiring creativity or originality): “How would you design an experiment to show the effect of receiving the Distinguished Teaching Award on a faculty member’s subsequent career progress?” “How would you reorganize Bloom’s taxonomy in light of new research in cognitive science?”
- Evaluation skills (using a set of criteria to arrive at a reasoned judgment of the value of something): “To what extent does the proposed package of tax increases resolve the budget deficit?” “If cocaine were legalized, what would be the implications for public health services?”

The School of Pharmacy faculty are committed to increasing the percentage of questions on their examinations that involve higher-level thinking skills. The commitment is based on the assumption that it is the development of these skills that will enable the graduate to provide appropriate levels of patient care.

II. DOCTOR OF PHARMACY PROGRAM

The Doctor of Pharmacy degree is the entry-level professional degree, requiring a minimum of four years of academic work. The first two years consist of the final two years of the B.S. in Pharmaceutical Sciences (practice track) degree program at The University of Mississippi. The Doctor of Pharmacy degree also may be awarded to practitioners possessing a B.S. in Pharmacy degree after completing additional didactic and experiential education.

Graduates of this program are eligible to sit for licensure examination, which must be successfully completed to practice the profession of pharmacy. The majority of the last two years of the Pharm.D. program occurs at sites other than on the Oxford campus, e.g., The University of Mississippi Medical Center in Jackson, Tupelo, Biloxi, Hattiesburg, etc.

Graduates of a B.S. in Pharmacy program who are licensed to practice pharmacy in Mississippi, graduates of The University of Mississippi B.S. in Pharmacy program, and graduates of The University of Mississippi B.S. in Pharmaceutical Sciences (practice track) program are eligible for admission into the Doctor of Pharmacy program. Requests to transfer to this program from students in good academic standing at other ACPE schools of pharmacy will be considered on an individual basis, as well as on a space-available basis. Such transfers must occur prior to the beginning of the P5 year, given the unique nature of course design of this program as compared to other schools of pharmacy. Transfer, if approved, likely may result in the student needing to take, at a minimum, an additional semester of course work, given the uniqueness of course sequencing in the various schools of pharmacy.

A. Application Process

To be considered for admission into the entry-level Doctor of Pharmacy program, B.S. in Pharmaceutical Sciences practice track students must submit, during the spring semester of the P4 year, a statement of intention to complete the Pharm.D. curriculum. Final admission will not occur until after graduation from the B.S. in Pharmaceutical Sciences (practice track) program. Applications for admission to the postbaccalaureate (B.S. in Pharmacy) Pharm.D. program must be submitted by February 1 preceding fall admission.

B. Admission Criteria

The minimum requirements for provisional admission to the entry-level Doctor of Pharmacy program are as follows:

1. Successful completion of the B.S. in Pharmaceutical Sciences practice track curriculum.
2. All required courses of the regular-entry curriculum must be taken at The University of Mississippi in the sequence defined by the curriculum.
3. A GPA (calculated on all grades earned) of at least 2.75 on all required courses in the P3 regular-entry curriculum and of at least a 2.75 GPA on all required courses in the P4 regular-entry practice track curriculum.
4. Grades of at least C in each of the required courses in the P3 regular entry curriculum and in all required P4 practice track courses.

Optional career tracks or curricular concentrations are available during the fourth year of the B.S. in Pharmaceutical Sciences program. However, completion of these optional tracks will not provide eligibility to enter the Doctor of Pharmacy program. These optional tracks will provide the background for entering pharmacy-related careers, graduate programs in the pharmaceutical sciences, or other professional schools.

C. Progression Requirements

A student who earns a grade of F in two or more courses during the P5 and/or P6 year will be dismissed from the Pharm.D. program. A student academically dismissed may only be re-admitted one time and must begin the program with the P5 fall courses and repeat all previously passed courses. No required course may be taken more than two times. All courses must be completed with a grade of C or better to be eligible for graduation.

D. Curricular Philosophy (Refer to B.S. in Pharmaceutical Sciences section)

E. Curriculum for Entry-level Doctor of Pharmacy Program

The following is the curriculum for years five and six:

FIFTH YEAR (P5)

First Semester	Hours
Pharmaceutical Care I: Knowledge and Comprehension (PRCT 555)	3
Pharmaceutical Care I: Problem Solving (PRCT 556)	3
Pharmaceutical Care I: Group (PRCT 557)	2
Pharmaceutical Care II: Knowledge and Comprehension (PRCT 558)	3
Pharmaceutical Care II: Problem Solving (PRCT 559)	3
Pharmaceutical Care II: Group (PRCT 560)	2
Seminar Skills Development for Health Care Professionals I (Z grade) (PRCT 566)	1
Information Skills in Pharmacy Practice (Z grade) (PRCT 551)	1
Total	18
Second Semester	
Pharmaceutical Care III: Knowledge and Comprehension (PRCT 561)	3
Pharmaceutical Care III: Problem Solving (PRCT 562)	3
Pharmaceutical Care III: Group (PRCT 563)	2
Pharmaceutical Care IV: Knowledge and Comprehension (PRCT 564)	3
Pharmaceutical Care IV: Problem Solving (PRCT 565)	3
Pharmaceutical Care IV: Group (PRCT 569)	2
Seminar Skills Development for Health Care Professionals (Z grade) (PRCT 566)	1
Pharmacy Biomedical Ethics (Z grade) (PRCT 568)	2
Total	19

SIXTH YEAR (P6)

Each student will participate in four required six-week rotations (medicine, ambulatory care, institutional practice, and community practice) and three six-week elective rotations for a total of 42 weeks of experiential education during the period beginning in June following completion of the P5 year and ending with May commencement of the succeeding year. The electives must be in three different areas of training. Students also must register for Seminar Skills Development II (PRCT 567) during one semester of the P6 year.

F. Curriculum for Postbaccalaureate Doctor of Pharmacy Program

This degree is for pharmacy practitioners previously receiving a B.S. in Pharmacy degree. Participants in this program also must meet requirements G1, 2, 3, 4 (see next section) for entry-level program participants and the computer requirements detailed for B.S. in Pharmaceutical Sciences students.

FIRST YEAR

First Semester	Hours
Pharmaceutical Care I: Knowledge and Comprehension (PRCT 555)	3
Pharmaceutical Care I: Problem Solving (PRCT 556)	3
Pharmaceutical Care I: Group (PRCT 557)	2
Pharmaceutical Care II: Knowledge and Comprehension (PRCT 558)	3
Pharmaceutical Care II: Problem Solving (PRCT 559)	3
Pharmaceutical Care II: Group (PRCT 560)	2
Seminar Skills Development for Health Care Professionals I (Z grade) (PRCT 566)	1
Information Skills in Pharmacy Practice (Z grade) (PRCT 551)	1
Total	18
Second Semester	
Pharmaceutical Care III: Knowledge and Comprehension (PRCT 561)	3
Pharmaceutical Care III: Problem Solving (PRCT 562)	3
Pharmaceutical Care III: Group (PRCT 563)	2
Pharmaceutical Care IV: Knowledge and Comprehension (PRCT 564)	3
Pharmaceutical Care IV: Problem Solving (PRCT 565)	3
Pharmaceutical Care IV: Group (PRCT 569)	2
Seminar Skills Development for Health Care Professionals (Z grade) (PRCT 566)	1
Pharmacy Biomedical Ethics (Z grade) (PRCT 568)	2
Total	19

SECOND YEAR

Whereas entry-level Doctor of Pharmacy students are required to complete seven rotations, these students are required to complete four six-week rotations (ambulatory care, medicine, plus two electives) given their prior practice experience and previous completion of experiential requirements for obtaining a B.S. in Pharmacy degree. Each of these rotations may be accomplished in a six-week (40 hours/week) or 12-week (20 hours/week) period. These rotations may not be performed at the regular employment site of the student. Students also must register for Seminar Skills Development II (PRCT 567) during the fall semester of the P6 year.

G. Additional Program Requirements

1. Basic Life Support for the Health Care Provider Training

Basic Life Support for the Health Care Provider (BLSHCP) training is required of all students enrolled in the experiential program. A BLSHCP course trains students how to perform adult, child, and infant cardiopulmonary resuscitation (CPR); manage foreign body airway obstruction in the adult, child, and infant; defibrillate utilizing an Automated External Defibrillator. Documentation may be in the form of a photocopy of the course completion card. Per the American Heart Association guidelines, BLS providers should receive training every two years. Therefore, in order to fulfill the BLS requirement, students should obtain BLS training no earlier than the summer prior to the P5 year. Students are responsible for independently obtaining BLS training. Students may wish to contact their local hospital, Red Cross office, or one of the local training sites noted in the School of Pharmacy Student Handbook.

2. Immunization

Postbaccalaureate Doctor of Pharmacy and entry-level Doctor of Pharmacy students (AT THE STUDENT'S EXPENSE) will be required to show proof of immunization against hepatitis B at the time of P5 orientation. If a student has not been immunized previously against hepatitis B, he or she should complete the series of three injections, which are to be administered over a six-month period during the P4 year. The series should be completed prior to beginning the P5 year. More than 90 percent of students so immunized will demonstrate a positive antibody titer within one month after completion of the injection schedule. Students may want to ascertain their immune status prior to beginning this expensive series (\$125-\$150) of injections since about 10 percent of the population is immune without having a documented history of having an active case of hepatitis B.

Students also will be required to have a PPD test (negative X-ray if previously PPD positive) prior to or during orientation activities preceding the P5 year, and also before beginning P6 rotations. Students having a positive PPD test must, by negative chest X-ray, demonstrate lack of an active case of tuberculosis or offer proof that they are undergoing treatment if currently infected.

Furthermore, it is expected that students will receive influenza immunization in the fall of their P6 year. Proof of receipt of influenza vaccinations must be submitted by December of the P6 year in order to advance to spring semester rotations.

3. Liability/Malpractice Insurance

Each Pharm.D. student (AT THE STUDENT'S EXPENSE) will be required to offer proof (for example, photocopy of the certificate of insurance with dates of coverage included) of personal/professional liability coverage (a minimum of \$1 million per individual claim, \$3 million per incident) prior to beginning and extending through the completion of the P5 and P6 years of the program.

4. Medical/Hospitalization Insurance

Hospitalization/medical insurance is required of all students enrolled in P5 and P6 courses. Coverage is available through a plan available to University of Mississippi Medical Center (UMMC) students. Contact the Student Accounting Office at UMMC for details. Open enrollment in this plan occurs only at the beginning of the P5 year. Later attempts to enroll may require a physical examination and provider approval. An alternative plan is also

available through the Student Health Center on the Oxford campus. It is the student's responsibility to notify the Office of the Associate Dean for Academic and Student Affairs if any changes in coverage occur during this two-year period.

5. Extern or Pharmacist Registration with the Mississippi State Board of Pharmacy (MSBP)

All Entry Level students must present proof of extern/intern registration with the MSBP prior to participating in the experiential program. A photocopy of the entry-level student's MSBP extern card is acceptable documentation. Post-B.S. students should submit a photocopy of their most recent state registration card. Students may contact MSBP for replacement cards or additional information regarding extern registration.

6. Financial Obligations

All financial obligations to the University, UMMC, and the School of Pharmacy Student Body, including obligations to on-campus chapters of professional student organizations in which the student has accepted membership, must be satisfied in order to receive a diploma. Students enrolled in the Doctor of Pharmacy program are required to pay each semester a UMMC student activity fee, which is billed through the Oxford campus. This fee is included in the tuition and fees for P5 and P6 students. This fee entitles students to full student services and participation in student life activities at UMMC during the P5 and P6 years.

7. Programmatic Assessment

Students' participation in programmatic assessment activities occurs during P3 orientation sessions during the spring of the P4 and P6 years. All students are required to participate in these activities in order for verification of their diploma application to proceed. Students are expected to take these activities seriously and to perform to the best of their ability. Otherwise, the results of these assessments would be invalid and unreliable and lead to inappropriate programmatic changes.

The Medical Center

Daniel W. Jones, M.D., vice chancellor for health affairs

The University of Mississippi Medical Center, Jackson

More detailed information on the Medical Center and its five schools is given in the Bulletin of The University of Mississippi Medical Center, copies of which are available from the Office of Student Records and Registrar, The University of Mississippi Medical Center, 2500 North State Street, Jackson, Mississippi 39216. Send e-mail inquiries to lgbrown@registrar.umsmed.edu or call (601) 984-1080. Visit the Medical Center's web site at www.ums.edu.

The Campus • The University of Mississippi Medical Center includes schools of Medicine, Nursing, Health Related Professions, Dentistry, and Graduate Studies in the Health Sciences; and the University Hospitals and Clinics, teaching hospitals for all Medical Center educational programs. The original eight-story, contemporary building, located on a 164-acre campus in the heart of Jackson, is the nucleus of a complex that has more than quadrupled in size since its opening in 1955.

The School of Medicine

Daniel W. Jones, M.D., dean

The University of Mississippi Medical Center, Jackson

Visit the school's web site at www.umc.edu.

History • Created by an act of the Board of Trustees of the University in June 1903, the School of Medicine was located on the campus of The University of Mississippi at Oxford until 1955, when the University Medical Center was completed in Jackson. Junior medical students were enrolled in September of that year, and the first graduation exercises were held in June 1957.

Degrees Offered • The School of Medicine offers the Doctor of Medicine degree and a combined M.D.-Ph.D. degree. The degrees of Master of Science and Doctor of Philosophy in the biomedical sciences are offered by the School of Graduate Studies in the Health Sciences. The four-year course leading to the Doctor of Medicine degree is approved by the Liaison Committee on Medical Education.

Certificate training programs in health-related professions offered through the School of Medicine are described in the section on health-related professions.

The Admissions Committee • The authority to select applicants for admission to the school is vested in the Admissions Committee, composed of members of the faculty of the school appointed by the dean. No student may enroll for courses in the School of Medicine either as a regular full-time student or as a special part-time student without being admitted by the committee. All correspondence and records regarding admissions are handled and filed in the Office of Student Records and Registrar and become the property of the school.

Basis of Selection • Selection of applicants is competitive. The first evaluation of applicants is made on the basis of scholastic records and scores on the New Medical College Admission Test. Those applicants for whom this evaluation indicates the scholastic competency necessary to pursue successfully the course of study required of students in the school are further evaluated on the basis of character, motivation, and promise of fitness for the practice of medicine. Selection is made on the basis of all these evaluations. Strong preference is given to applicants who are Mississippi residents.

Interviews • No applicant is accepted until interviewed by members of the Admissions Committee or by their designees. Interviews are scheduled during regular periods by invitation only; those applicants whom the committee elects to interview are notified well in advance of such periods.

Where to Apply • All correspondence regarding admission should be addressed to the Division of Student Records and Registrar, The University of Mississippi Medical Center, 2500 North State Street, Jackson, Mississippi 39216.

How to Apply • Anyone interested in applying for admission to the School of Medicine should contact the Pre-professional Advising Office on the Oxford campus or download AMCAS-E from the Association of American Medical Colleges web site, www.aamc.org, to obtain an AMCAS application. Details of the application

procedure, including information on the Early Decision Plan, may be obtained from the Health Professions Advising Office on the Oxford campus.

When to Apply • Applications for the August entering class will be accepted beginning June 1 of the previous year and should be completed by October 15 preceding the desired date of admission. All applicants must receive letters of admission before presenting themselves for registration. A new application must be made for each class for which the student wishes to be considered.

Medical College Admission Test • The applicant for admission must take the Medical College Admission Test that is given twice a year in most senior colleges. By following a well-planned schedule, pre-medical students should be ready to take the test no later than the spring of their junior year. Information regarding the New Medical College Admission Test may be obtained from the pre-medical adviser in most colleges or on the Web page at www.aamc.org/students/mcat.

Course Requirements for Admission • Required courses include one academic year each of biological science, inorganic chemistry, organic chemistry, English, mathematics, physics, and advanced science. Eight semester hours of advanced science must be taken in a senior college. A total of 90 acceptable semester hours will be completed by approved electives. Strong preference is given to applicants who will have completed a baccalaureate degree by the time of entrance.

In each of the required science courses, laboratory work must be included. A minimum of 3 semester hours of college algebra and 3 semester hours of trigonometry is required. A two-semester course including algebra, trigonometry, analytical geometry, and calculus also is acceptable. Students who qualify by placement tests for more advanced courses in mathematics are urged to take two semesters of advanced courses rather than the courses in algebra and trigonometry.

The usual freshman college course of 6 semester hours in English composition is required. The applicant is urged to take an advanced course in English composition.

It is recommended that the student develop proficiency in a specific area while in undergraduate school and acquire a background in the humanities and social sciences, consulting closely with the pre-medical adviser concerning specific courses. A partial list of recommended electives includes fine arts (up to 6 semester hours, advanced English, foreign language, geography, history, literature, philosophy, psychology, sociology, and advanced courses in biology, chemistry, mathematics, and physics).

None of the 90 semester hours of minimum collegiate requirements listed or described or recommended above may be met by the following: (1) correspondence courses, (2) courses in physical training, military science, and dogmatic religion, (3) courses in mathematics or science designed for nonscience majors, (4) course credit granted without college-level testing, or (5) advanced placement credit.

Credit Transferred from Junior College • Sixty-five semester hours of credit from a junior college is the maximum that may be applied toward admission. A student who has earned this credit, whether it be in a junior college or in a senior college, may not transfer further credit from a junior college.

Admission to Advanced Standing • Applications for admission to advanced standing in The University of Mississippi School of Medicine are considered by the Admissions Committee. An applicant for transfer should write to the Division of Student Services

and Records, The University of Mississippi Medical Center, 2500 North State Street, Jackson, Mississippi 39216, for information. The applicant will be required to submit evidence of withdrawal in good standing from the medical school previously attended and a validated transcript of the work completed in that school. Advanced standing is defined as any quarter subsequent to the first quarter of the year.

Deposit • A deposit is required of each applicant accepted for admission to the school. This deposit must be received within 15 days after the date of notification that the applicant has been accepted. For a Mississippi resident, the deposit is \$50; for a nonresident, it is \$100. Failure to make the required deposit within the specified period will automatically void the admission of the applicant.

Tuition • For Mississippi residents tuition is \$7,285 per student per year. Tuition is due on the day of registration for each quarter period. If not paid before the day classes begin, further attendance in class will not be permitted without satisfactory financial arrangements with the Student Accounting Office. An additional fee of \$6,678 per year is charged nonresidents of Mississippi.

Financial Aid • For information on scholarships and loan funds, see *the Bulletin of The University of Mississippi Medical Center*.

Academic Honors • For information on prizes and awards, see *the Bulletin of The University of Mississippi Medical Center*.

Doctor of Medicine • The degree of Doctor of Medicine is conferred upon candidates of good moral character who have studied in a recognized medical school at least four academic sessions, of which one session must be spent in the regular four-year course of this school, and who have properly fulfilled all academic requirements of the medical curriculum, and who have discharged all financial obligations to this school.

The School of Nursing

Kay Bender, Ph.D., dean

The University of Mississippi Medical Center, Jackson

Visit the school's web site at www.umc.edu.

History and Accreditation • The School of Nursing was established as a Department of Nursing on the Oxford campus in 1948. The department achieved separate school status in 1958 and functions as a part of the Medical Center at Jackson. The School of Nursing's baccalaureate and master's programs are accredited by the National League for Nursing and the Commission on Collegiate Nursing Education.

Degrees Offered • The School of Nursing offers the Bachelor of Science in Nursing degree. The Master of Science in Nursing and the Doctor of Philosophy in Nursing degrees are offered at the School of Nursing through the graduate programs in the health sciences. The School of Nursing's undergraduate curriculum is designed so that the upper-division (junior/senior level) nursing courses are taught at The University of Mississippi Medical Center. See the *Bulletin of The University of Mississippi Medical Center* for detailed information.

Deposit • A deposit of \$25 is required of each applicant accepted for admission to the School of Nursing. This deposit must be received within 15 days after the date of notification of acceptance. The deposit is refundable if the applicant withdraws before May 1; otherwise, the deposit is deducted from the first registration fee.

Tuition • For residents of Mississippi, tuition and fees are \$3,357 per year. An additional fee of \$3,676 per year will be charged nonresidents of Mississippi.

Scholarships and Awards • For information on scholarships and academic honors available to students of nursing, see the *Bulletin of The University of Mississippi Medical Center*.

Degree Requirements for Bachelor of Science in Nursing • Candidates for the degree of Bachelor of Science in Nursing must have completed the prescribed curriculum with an average of C or better; and have spent the equivalent of at least one full academic year in residence. Hours earned through correspondence, extension courses, and equivalency exams will be evaluated by the Admissions Committee.

Application Procedure • Applicants must be accepted before presenting themselves for registration. There is a \$10 application fee. Applications, including transcripts and ACT scores, must be completed and in the Registrar's Office no later than November 1 for fall admission.

Admission Requirements • Selection of applicants is made on a competitive basis and equal education opportunity is offered to all students meeting the entrance requirements regardless of race, sex, color, religion, marital status, age, national origin, disability, or veteran status. The number of students admitted is dependent upon educational resources available to support the program. Preference is given to applicants who are legal residents of Mississippi. A class is admitted in August.

All applicants for admission to the baccalaureate program in the School of Nursing must present an enhanced ACT score of 21 and an overall grade-point average of 2.50.

A limited number of competitive applicants with lower ACT scores and lower grade-point averages may be considered by the Admissions Committee. Applicants are accepted when the admission process is complete. All grades, including failing grades and grades on repeat courses, are used to calculate pre-admissions grade-point averages.

While a minimum grade of C is required on each course accepted for transfer, applicants accepted for admission usually have higher grade-point averages. The prerequisite courses for the first two years may be studied at either the University's Oxford campus, or at an approved junior or senior college. Applicants must earn a minimum of 63 semester hours of prescribed courses prior to admission to the school.

The prerequisite courses include:

NATURAL SCIENCE AND MATHEMATICS: A minimum of 7 courses (Science survey courses or courses for nonscience majors are not acceptable for transfer credit.)

Required Courses:

Chemistry (8 semester hours); two courses in sequence each with a laboratory
 Microbiology (4 semester hours); one course with laboratory
 Human Anatomy and Physiology; two courses in sequence with lab
 Nutrition
 College Algebra
 Statistics

PSYCHOSOCIAL SCIENCES: A minimum of 6 courses (18 semester hours)

Required Courses:

General Psychology
 Introductory computer course
 Introductory Sociology
 The Family
 Human Growth and Development Throughout the Life Cycle, or comparable course(s)

Suggested Courses:

Abnormal Psychology
 Anthropology
 Social problems
 Economics
 Geography
 Political science
 History

HUMANITIES AND FINE ARTS: A minimum of 6 courses (18 semester hours)

Required Courses:

English Composition (6 semester hours)

Speech

Fine arts (a minimum of 3 semester hours)

The additional 2 courses in this area may be from either the humanities or fine arts.

Suggested Courses:

Art

Drama

Foreign language

History

Journalism

Literature

Music

Philosophy

Survey of religion

The School of Health Related Professions

Ben Mitchell, Ph.D., dean

The University of Mississippi Medical Center, Jackson

Visit the school's web site at www.umc.edu.

History • The School of Health Related Professions was authorized by the Board of Trustees of State Institutions of Higher Learning in October 1971, and functions as a part of The University of Mississippi Medical Center at Jackson. The first dean was appointed effective July 1, 1972.

The school consists of the departments of Clinical Laboratory Sciences, Cytotechnology, Dental Hygiene, Emergency Medical Technology, Health Sciences, Health Information Management, Occupational Therapy, and Physical Therapy. A number of certificate training programs in the health-related professions also are offered through the School of Medicine and the University Hospital.

Degrees and Certificates Offered • The school offers the Bachelor of Science degree in cytotechnology, dental hygiene, health information management, and clinical laboratory sciences. The professional entry-level master's degree is offered in occupational therapy and physical therapy. A certificate program is available in emergency medical technology. There is a \$10 application fee for each of these programs.

The School of Graduate Studies in the Health Sciences offers the degrees of Master of Science and Doctor of Philosophy in the clinical health sciences.

Admission • All applicants for the undergraduate programs at the school must have at least a 2.0 grade-point average on a 4.0 scale in addition to the specific requirements stated under the various programs in the *Bulletin of The University of Mississippi Medical Center*. Observation and personal interviews are additional criteria considered under the various undergraduate programs. All admissions are on a competitive basis. Preference is given to applicants who are legal residents of Mississippi. All grades, including failing grades and grades on repeated courses, are used to calculate pre-admissions grade-point averages. Tuition and fees for all degree programs except occupational therapy and physical therapy are \$3,232 for state residents and \$6,908 for nonresidents. Tuition and fees for the 12-month programs in occupational therapy and physical therapy are \$4,848 for state residents and \$10,362 for nonresidents.

Certification • Upon satisfactory completion of any of the above programs, the student will be eligible to take the appropriate registry examinations.

Clinical Laboratory Sciences • The educational program in clinical laboratory sciences is a two-year, upper-division program. One class is accepted each fall. Admission requirements are 65 semester hours of acceptable college education that meet minimal course requirements as stated in the *Bulletin of The University of Mississippi Medical Center*.

Cytotechnology • The educational program in cytotechnology is a two-year upper-division program. One class is accepted each fall. Admission requirements include 65 semester hours of acceptable college credit that meet minimum course requirements as stated in the *Bulletin of The University of Mississippi Medical Center*.

Dental Hygiene • This educational program is a two-year upper-division program. One class is admitted each fall. Admission requires completion of 63 acceptable semester hours at an accredited institution of higher learning.

Emergency Medical Technology • This educational program, established in 1985, is approved by the Paramedic Committee of the Mississippi State Department of Health to train students at the paramedic level of emergency medical technology. One class is admitted each fall, and students who satisfactorily complete program requirements are eligible to sit for the certification examination by the National Registry of Emergency Medical Technicians. Admission requirements for the paramedic program are listed in the *Bulletin of The University of Mississippi Medical Center*. The tuition fee for state residents is \$1,800 per year. Nonresidents pay an additional \$2,088 for EMT-P each year.

Health Information Management • The educational program in health information science is a two-year, upper-division program. One class is accepted each fall. Admission requirements are 64 semester hours of acceptable college education that meet minimal course requirements as stated in the *Bulletin of The University of Mississippi Medical Center*.

Nuclear Medicine Technology • The 12-month accelerated program in nuclear medicine technology provides training for students seeking to become registered nuclear medicine technologists. One class is admitted each July. Admission requirements are satisfactory completion of one year of acceptable college education, satisfactory scores on the American College Test, and one of the following: graduation from an JRCERT-accredited program of X-ray technology; or certification as an X-ray technologist by the American Registry of X-ray Technologists; or a B.S. degree in biology or chemistry from an accredited institution of higher learning with completion of the required courses. There is no tuition fee. Students pay an activity fee of \$211 per year.

Occupational Therapy • The educational curriculum in occupational therapy is a three-year, upper-division/professional master's program. The prerequisites for admission include the completion of at least two years of undergraduate study for a minimum of 64 semester hours of transfer credit in specific prerequisite courses as stated in the *Bulletin of The University of Mississippi Medical Center*. The curriculum will offer a baccalaureate degree in clinical health sciences after the second year of professional study and will terminate in the Master of Occupational Therapy degree at the completion of the third year. The intermediate baccalaureate degree will not meet the requirements for registry as an occupational therapist. Completion of the M.O.T. program in its entirety is required for eligibility for the registry examination.

Physical Therapy • The educational program in physical therapy is a graduate program offering the professional, entry-level Master of Physical Therapy degree. One class is admitted each summer. Applications must be submitted by December 1. Admission requirements are a baccalaureate degree from an approved institution of higher learning, official report of GRE scores, completion of the required courses as stated in the *Bulletin of The University of Mississippi Medical Center*, and a grade-point average of 2.75 on a 4.0 scale.

Radiologic Technology • The training program in radiologic technology consists of a 24-month period of formal training for students seeking to become registered X-ray technicians. One class is registered each July. Admission requirements are one year of acceptable college education, satisfactory scores on the American College Test, and

evidence of physical and mental aptitude for radiologic technology training. There is no tuition fee. Students pay an activity fee of \$211 per year. Additional education in radiologic technology is an extended program in advanced imaging technology. All applicants must be a graduate of an AMA-approved program of radiologic technology and a certified radiographer by the ARRT or ARRT eligible.

Application Procedure • Applications for any of these programs may be obtained upon request from the Division of Student Records and Registrar, The University of Mississippi Medical Center, 2500 North State Street, Jackson, Mississippi 39216. There is a \$10 application fee.

The School of Dentistry

James R. Hupp, D.M.D., M.D., J.D., dean

The University of Mississippi Medical Center, Jackson

Visit the school's web site at www.umc.edu.

History and Accreditation • The School of Dentistry was authorized by the Board of Trustees of State Institutions of Higher Learning in 1972 and by the Mississippi Legislature in 1973. The first dean was appointed Jan. 1, 1974, and the school's first class was graduated in 1979. The program is accredited by the Commission on Accreditation of the American Dental Association.

Degree Offered • The School of Dentistry offers the degree of Doctor of Dental Medicine.

The Admissions Committee • The authority to select applicants for admission to the School of Dentistry is vested in the Admissions Committee appointed by the dean. No student may enroll for courses in the school without being admitted by the committee. All correspondence and records related to admissions are handled and filed in the Office of Student Records and Registrar.

Basis of Selection • Selection of applicants is made on a competitive basis. Major admission considerations are the college record, American Dental Association Dental Admission Test scores, recommendation of the pre-professional adviser and personal interview. Applicants whose credentials indicate potential for success in the program are invited for interviews. Preference is given to applicants who are Mississippi residents.

Where to Apply • Applications may be obtained upon request from the Office of Student Records and Registrar, The University of Mississippi Medical Center, 2500 North State Street, Jackson, Mississippi 39216. Applications must be completed by November 1 before the scheduled date of registration in August. All applicants must receive letters of acceptance before presenting themselves for registration. There is a \$25 application fee.

When to Apply • Applications for the fall entering class will be accepted beginning July 1 of the previous year and should be completed no later than November 1 preceding the desired date of admission. Three years of college work are required; however, a baccalaureate degree is recommended. All applicants must receive letters of admission before presenting themselves for registration. A new application must be made for each class for which the student wishes to be considered.

Dental Admission Test • All applicants must take the Dental Admission Test. By following a well-planned schedule, pre-dental students should be ready to take the test at the end of their junior year. It is strongly recommended that this test be taken in the spring but not later than the fall of the year preceding the desired date of admission. Tests more than three years old are not acceptable. Information regarding the Dental Admission Test may be obtained from the Pre-professional Advising Office, Oxford campus, or from the Division of Educational Measurements, American Dental Association, 211 East Chicago Avenue, Chicago, IL 60611.

Course Requirements for Admission • The applicant must show credit for at least three years of college work, totaling not fewer than 90 acceptable semester hours, completed in a United States or Canadian accredited school. A baccalaureate degree is recommended; however, applicants seeking admission to the School of Dentistry must meet the following minimum requirements:

Required Courses	Number of Courses
English Composition ¹	2
Behavioral sciences (sociology, psychology, anthropology)	2
Inorganic Chemistry	2
Organic Chemistry	2
Advanced chemistry or biology ²	2
Physics	2
Biology or zoology	2
Mathematics (algebra, trigonometry, or analytical geometry)	2

All required science courses must include regularly scheduled laboratory periods and must be courses designated for majors in that field or for pre-professional students.

Unacceptable Courses • None of the 90 semester hours of minimum collegiate requirements listed or described or recommended above may be met by the following: correspondence courses, courses in physical training, military science, or dogmatic religion, or courses in mathematics or science designed for nonscience majors.

Deposit • A deposit is required of each applicant accepted for admission to the School of Dentistry. This deposit must be received within 15 days after the date of notification that the applicant has been accepted. For a Mississippi resident the deposit is \$100; for a nonresident, \$200. Failure to make the required deposit within the specified period will automatically void the admission of the applicant.

Tuition • For Mississippi residents, tuition and fees are \$6,030 per student per year. This tuition payment includes registration and activity fees. An additional fee of \$6,681 per year is charged nonresidents of Mississippi.

Financial Aid • For information on scholarships and loan funds, see the *Bulletin of The University of Mississippi Medical Center*.

¹ Two courses must be in composition; one course may be in communications.

² Suggested courses include quantitative analysis, physical chemistry, embryology; histology, immunology, microbiology, biochemistry, bacteriology, cell biology or cell physiology, and comparative anatomy. These must be junior- or senior-level courses.

Courses of Instruction

In this section are listed and described all undergraduate courses taught in the schools and departments of the University except for the School of Law (see the *Law School Bulletin*) and the various schools at The University of Mississippi Medical Center in Jackson (see the *Bulletin of the University of Mississippi Medical Center*).

The courses are presented by departments or programs and are listed alphabetically. The subject name (the heading in large bold type) together with the course number constitutes the official designation of the course for the purposes of registration and official records. The official course title also appears in all capitals following the course number. The figures in parentheses after the course description denote the number of semester hours of credit for the course. Subtitles indicate subdivisions within the department and form no part of the actual course designation.

- 1-99 Courses offering no semester-hour credit
- 101-199 Courses primarily for freshmen
- 201-299 Courses primarily for sophomores
- 301-399 Courses primarily for juniors
- 401-499 Courses primarily for seniors for which graduate credit is not given
- 501-599 Courses limited to graduate and upper-division students. Courses on the 600- to 700-level are for graduate students only and are listed in the *Graduate School Catalog*.

Prerequisites are listed for some courses. A student may not take a course unless these prerequisites have been met. Exceptions can be made only in special cases with the prior consent of the instructor, the department chair, and the dean.

In a continuous course sequence (such as ENGL 101, 102 or MATH 261, 262, 263, 264) the prior courses are prerequisite to the subsequent courses unless otherwise stated. Thus, a student who has failed one semester of a continuous course sequence may not take a subsequent course in that sequence until the failed course has been passed. In the case of foreign language sequences (such as SPAN 101, 102, 201, 202) a student may begin at any level but then must take any subsequent courses in order.

ACCOUNTANCY—ACCY

Professor Morris H. Stocks, dean • 200 Conner Hall

Professors Davis, Elam, D. Flesher, and T. Flesher • Associate Professors Burkett, Cassidy, Nichols, and Wilder • Assistant Professors Bizarro, Morf, Shaw, Walker, and Wang • Instructors McCaffrey and Rhodes

201, 202. INTRODUCTION TO ACCOUNTING PRINCIPLES I, II. Accounting principles and procedures for proprietorships, partnerships, and corporations; preparation of financial statements; management's use of accounting data. (3, 3).

301. ADMINISTRATIVE ACCOUNTING. Planning and control through accounting, information systems, cost determination, financial statement analysis, and interpretation. Prerequisite: 202. (3).

303. FINANCIAL ACCOUNTING PRINCIPLES I. Principles underlying financial statements: current assets, current liabilities, and investments. Prerequisite: B minimum in 201 and 202. (3).

304. FINANCIAL ACCOUNTING PRINCIPLES II. Continuation of ACCY 303: plant and equipment, intangible assets, long-term liabilities, corporate capital, and analysis of financial statements. Prerequisite: C minimum in 303. (3).

- 309. COST CONTROL.** Job-order cost accounting, accumulation and allocation of factory overhead, fundamentals of process costs, and by-products and joint products. Prerequisite: B minimum in 202. (3).
- 310. SYSTEMS.** Principles underlying establishment of complete accounting systems, application to typical business organizations, and emphasis on the functions of control and protection. Prerequisite: Completion of MIS 241 and C minimum in ACCY 202. (3).
- 401. AUDITING.** General standards and procedures for a contemporary audit, working papers, and reports. Prerequisite: C minimum in ACCY 304. (3).
- 402. ADVANCED ACCOUNTING.** Specialized accounting problems including partnerships, installment sales, consignments, branch accounting and consolidations, and fiduciary relationships. Prerequisite: C minimum in ACCY 304. (3).
- 404. ACCOUNTING THEORY.** The function of accounting in society, structure of contemporary accounting theory, conceptual elements of accounting, nature of net income, and other related fields. Prerequisite: C minimum in ACCY 304. (3).
- 405. INCOME TAXES I.** Federal and state income taxes for individuals, including research procedures. Prerequisite: C minimum in ACCY 202. (3).
- 407. GOVERNMENTAL ACCOUNTING.** Procedures for government units, particularly municipalities; emphasis on budgetary and fund accounts. Prerequisite: C minimum in ACCY 202. (3).
- 411. BUSINESS LAW.** Major principles and topics of law encountered by accounting majors and CPA candidates; contracts, the Uniform Commercial Code, property rights-real and personal, bailments, sales, commercial paper, bankruptcy, agency, corporations, and wills and estates. Prerequisite: BUS 250. (3).
- 420. INDIVIDUAL STUDY.** Reading and research in a topic in the field of accountancy. Prerequisite: consent of instructor. (3).
- 501. INTERNAL/OPERATIONAL AUDITING.** Emphasis on proper internal controls and on compliance with applicable laws, regulations, and policies. Prerequisite: C minimum in ACCY 304. (3).
- 502. OIL AND GAS ACCOUNTING.** Accounting for exploration, development, production, and reserve recognition for firms in the petroleum industry; related topics in income taxes also are covered. Prerequisite: ACCY 201, 202, and 301. (3).
- 504. STANDARD COSTS.** Trends in costing based on standards in manufacturing industries, setting standards, measuring actual costs against standards, and disposition of variances. Prerequisite: ACCY 309. (3).
- 505. TAXATION FOR NON-ACCOUNTANTS.** Fundamentals of federal taxation, including the background knowledge necessary to recognize the tax consequences of business and investment decisions. Prerequisite: ACCY 202. (3).
- 509. INCOME TAXES II.** Federal and state income taxes on corporations, partnerships, estates, and trusts; a brief study of estate and gift taxes. Prerequisites: a minimum grade of C in ACCY 405 and full standing admission in the graduate program in accountancy or a senior within 15 hours of the bachelor's degree or others with consent of the instructor. (3).
- 514. MANAGERIAL AND BUDGETARY CONTROL.** Work of the controller, with special emphasis on the construction, control, and interpretation of accounts. Budgets of various kinds; recent CPA problems dealing with budgeting. Prerequisite: C minimum in ACCY 202. (3).
- 520. ACCOUNTING INTERNSHIP.** A directed internship in an organization under the supervision of accounting practitioners. Prerequisite: approval of dean. (Z grade). (3-6).
- 521. INTERNATIONAL ACCOUNTING.** Topics include comparative international accounting systems, efforts to harmonize accounting standards internationally, problems of foreign currency translation, and accounting and performance evaluation problems of multinational corporations. Prerequisite: ACCY 304; corequisite ACCY 402; or consent of instructor (3).
- 525. PROFESSIONAL REPORT WRITING.** Intensive practice in professional report writing for accountants. Principles emphasized include analysis of audience, organization of ideas, clarity, and conciseness of presentation, and correct grammar. Formats include memos, research reports, business letters, and other types of written communications used by accountants in practice. (3).
- 530. INFORMATION TECHNOLOGY AUDITING.** Nature, control, and audit of computer-based accounting information systems. (3).

AFRICAN AMERICAN STUDIES—AAS

Associate Professor Charles Ross, chair • 306 Barr Hall

Professors Eagles, Jordan, Thorne, and Winkle • Associate Professors Crouther, Payne, and Steel • Assistant Professors Burnside, Shadle, and Young-Minor

170. INTRODUCTION TO AFRICAN HISTORY. Introduction to the history of Africa with an emphasis on the modern era. (Same as HIS 170). (3).

201. AFRICAN AMERICAN EXPERIENCE I. General overview including focus on race, economy, institutions, and key historical periods. (3).

202. AFRICAN EXPERIENCE II. A survey of black experience using the study of culture and the arts as a major focus. (AAS 201 is not a prerequisite). (3).

302. JUDICIAL SYSTEM AND THE AFRICAN AMERICAN EXPERIENCE. An examination of the historical and contemporary relationships and interactions between the black population and the legal system in America. Concepts covered will include considerations of definitions of criminal conduct, societal responses to minority pressures and demands for justice, as well as intergroup relations between nondominant ethnic groups and enforcement components of society. (3).

307. PEOPLES OF AFRICA. This course examines the peoples of modern Sub-Saharan Africa, including patterns of African religions, the arts, politics, economics, and societies. (Same as ANTH 307). (3).

308. POLITICS OF CIVIL LIBERTIES. American legal and political freedoms, judicial policy making, criminal justice, civil rights. (Same as POL 307). (3).

310. EXPERIENCES OF BLACK MISSISSIPPIANS. Cross-disciplinary focus on the social, political, economic, and cultural aspects of black history in the state with the largest concentration of blacks in the United States. (3).

315. POLITICAL SYSTEMS OF SUB-SAHARAN AFRICA. (Same as POL 323). (3).

320. AFRICAN AMERICAN POLITICS. An overview of the interaction between African Americans and the American political system. Forms of political activity, from the conventional to the revolutionary, are examined in historical and contemporary perspectives, with emphasis on electoral politics and consequences of African American participation in the American political system. (Same as POL 320). (3).

325. AFRICAN AMERICAN HISTORY TO 1865. Black American history from West Africa to 1865, emphasizing the role of black leaders and their struggle against racial segregation and oppression. (Same as HIS 307). (3).

326. AFRICAN AMERICAN HISTORY SINCE 1865. A survey of the history of black Americans from the Civil War to the present, emphasizing the role of black leaders, the struggle against oppression, and the evolution of race relations. (Same as HIS 308). (3).

329. AFRICAN AND AFRICAN AMERICAN ARTS. (Same as ARHI 338). (3).

334. INTRODUCTION TO FIELD WORK TECHNIQUES. Examination of theory, practice, and tradition of documentary field research, including the use of photography, film and video, and tape recorders. Special emphasis on documentary study of the American South. (Same as SST 334, ANTH 334, and SOC 334). (3).

337. ANTHROPOLOGY OF BLUES CULTURE. Examines the blues in all its myriad social and cultural roles and contexts, using the anthropological models and approaches of the oral and musical arts, linguistics, ethnohistory, ethnography, religion, and ritual analysis among others. (Same as ANTH 337). (3).

341. THE AFRICAN AMERICAN LITERARY TRADITION I: FROM THE BEGINNING TO 1920. Begins with the oral tradition in Africa and continues with the evolution in form from slave narrations to autobiographies and novels; the incorporation of folk and popular materials into formal literature, and the idea of a literary tradition. Writers include Wheatley, Hammon, Equiano, Brown, Douglass, DuBois, Chesnutt, Dunbar, and Johnson. Prerequisites: ENGL 101, 102, 6 hours of English at the 200 level or equivalent. (Same as ENGL 322). (3).

- 342. THE AFRICAN AMERICAN LITERARY TRADITION II: 1920 TO THE PRESENT.** Covers modern African American literature, concentrating on poetry and the novel. Attention to modern uses of folk materials; criticism and aesthetic movements, problems in form, audience, genre; politics and the writer with focus on the emergence of African American female writers in contemporary literature. Selected works by Brown, Hurston, Hughes, Toomer, Wright, Ellison, Alice Walker, Toni Morrison, and selected playwrights. Prerequisites: ENGL 101, 102, 6 hours English at the 200 level or equivalent. (Same as ENGL 323). (3).
- 350, 351. TOPICS IN AFRICAN AMERICAN STUDIES.** Explores important themes from the perspectives of historical, cultural, and social/behavioral studies. Topics will vary. (3, 3).
- 360. TOPICS IN AFRICAN AMERICAN STUDIES ABROAD.** Students do departmentally approved course work at a foreign university. May be repeated with consent of director of the African American Studies program. (1-6).
- 362. AFRICAN AMERICAN WOMEN'S HISTORY.** An introduction to African American women's history, exploring the epistemology and the scholarship of the field. (Same as GST 362). (3).
- 371. AFRICAN LITERATURE.** A survey of the development of African literatures in the context of African history and of the political, social, and cultural forces that have influenced various African countries. (Same as ENGL 371). (3).
- 373. CARIBBEAN LITERATURE.** A survey of Caribbean literatures from pre-Columbian cultures to the present. Emphasis on the development of Caribbean literatures in the context of Caribbean history and of the political, social, and cultural forces that shaped different Caribbean societies. (Same as ENGL 373). (3).
- 392. SUB-SAHARAN AFRICA.** (Same as HIS 387). (3).
- 395. SURVEY OF AFRICAN AMERICAN ART.** (Same as ARHI 398). (3).
- 413. RACE AND ETHNICITY.** (Same as SOC 413). (3).
- 420. RICHARD WRIGHT AND TONI MORRISON.** A comparative look at the development and impact of these African American writers. (3).
- 438. HISTORICAL PERSPECTIVES ON SLAVERY IN THE AMERICAS.** Examination of the roles of Europeans, Africans, and the nations of North and South America in the international slave trade and the institution of slavery in the western hemisphere. (Same as HIS 327). (3).
- 440. HISTORY OF AFRICAN AMERICANS IN SPORT.** A historical survey of African Americans and their roles in various sports, beginning with black participation in the late 19th century and chronicling that involvement into the 21st century. (Same as HIS 328). (3).
- 441. COMPARATIVE BLACK LITERATURES.** A study of various black literatures, including African, African-American, and African-Caribbean, in a comparative, socio-cultural context. (Same as ENGL 441). (3).
- 443. THE CIVIL RIGHTS ERA.** The African-American struggle for civil rights, emphasizing the role of African Americans, the resistance of other racial and ethnic groups, and the role of federal and state agents/agencies from the perspective of political and social history. (Same as HIS 329). (3).
- 480. AFRICAN AMERICAN STUDIES SENIOR SEMINAR.** Capstone of the African American Studies major using the seminar format to integrate interdisciplinary approaches to themes in African American culture, history, and institutions. Prerequisite: 9 credit hours in AAS, senior standing, and consent of the instructor. (3).
- 498. AFRICAN AMERICAN STUDIES DIRECTED STUDY.** Individual study of an issue or topic in an area of specialization where the student has demonstrated the interest and competence necessary for independent research. The issue/topic must be selected in conference with appropriate faculty. Prerequisites: 15 credit hours in African American Studies, senior standing, consent of faculty to serve as sponsor/supervisor of research project. (3-6).
- 501. AFRICAN AMERICAN STUDIES SEMINAR.** Research, using the seminar format to focus on the African American experience during key historical periods: African origins, slave trade era, slavery, emancipation, urban migrations, and social and political integration. Special attention will be given to the socioeconomic, cultural, and political development of African Americans and the context within which it has occurred. Course content will vary. Prerequisites: AAS 201 and 325 or 326, or consent of the instructor. (3).
- 504. RESEARCH IN AFRICAN AMERICAN STUDIES.** Intellectual history of research about the African American experience and the rise of African American Studies. Critical examination of past and current research and its significance to various disciplines. Prerequisites: AAS 201 or 202 and senior standing; or consent of the instructor. (3).

509. HISTORIOGRAPHY OF AFRICAN-AMERICAN HISTORY. An introduction to the research methods and principles of historiography as applied to specific events and issues in African American history. The course will focus on how African American history has been, and is being written. Topics include the major historians, theories, sources, uses of authentic materials, and fields of investigation. (Does not satisfy History Department M.A. 500-level historiography requirements.) (3).

517. AFRICAN AMERICAN MUSICAL TRADITION. A study of the historical and stylistic development of African American music from ancient African to the present. An assessment of black musicians who have shaped the musical climate of America. (Same as MUS 517). (3).

518. HISTORY OF JAZZ AND ITS ROOTS. A historical survey of American jazz with emphasis on the musical styles and genres of specific African American composers and musicians. (Same as MUS 518). (3).

593. AFRICAN AMERICAN LITERATURE. Selected African American prose, poetry, fiction, and drama, with emphasis on major figures, themes, periods, and movements. (Same as ENGL 593). (3).

The African American Studies Program also accepts the following courses: S ST 101, 102 (Introduction to Southern Studies); HIS 460 (Undergraduate Research Seminar in African History); and HIS 509 (Historiography of African-American History).

AIR FORCE ROTC/AEROSPACE STUDIES—AS

Professor Kevin R. Petesch, Lieutenant Colonel, U.S. Air Force, chair • 310 Barnard Hall

Assistant Professors Major Melvin and Captain Breen

101, 102. FOUNDATIONS OF THE UNITED STATES AIR FORCE I, II. Mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force leaders and officer pay, benefits, and career opportunities. Enrollment in this course does not incur a military obligation. Corequisites: AS 111, 112. (1, 1).

105. BASIC TRAINING. Credit for successful completion of basic training in the U.S. Air Force. (Z grade). (4).

111, 112. LEADERSHIP LABORATORY I, II. Introduction to Air Force customs and courtesies and the environment of an Air Force officer. Enrollment in this course does not incur a military obligation. Corequisites: AS 101, 102. (1, 1).

201, 202. THE EVOLUTION OF U.S. AIR AND SPACE POWER I, II. Air Force heritage, leaders, ethics, and values. Introduction to leadership, group leadership problems, and Air Force quality programs. Enrollment in this course does not incur a military obligation. Corequisites: AS 211, 212. (1, 1).

211, 212. LEADERSHIP LABORATORY I, II. Air Force customs and courtesies, the environment of an Air Force officer, and introduction to military leadership applications. Enrollment in this course does not incur a military obligation. Corequisites: AS 201, 202. (1, 1).

301, 302. AIR FORCE LEADERSHIP STUDIES I, II. Study of Air Force leadership, quality management fundamentals, professional knowledge, doctrine, leadership ethics, and communicative skills. Corequisites: AS 311, 312. (3, 3).

311, 312. AIR FORCE LEADERSHIP AND MANAGEMENT LABORATORY I, II. Application of leadership and management principles. Corequisites: 301, 302. (1, 1).

401, 402. NATIONAL SECURITY AFFAIRS/PREPARATION FOR ACTIVE DUTY I, II. Military officership and professionalism, national security process, advanced leadership ethics, military justice, and preparation for active duty service in the Air Force. Corequisites: AS 411, 412. (3, 3).

411, 412. DEFENSE STUDIES LABORATORY I, II. Advanced application of Air Force leadership and quality management principles. Orientation to the active duty Air Force environment. Corequisites: AS 401, 402. (1, 1).

ANTHROPOLOGY *See the Department of Sociology and Anthropology.*

ARCHAEOLOGY *See the Department of Classics and the Department of Sociology and Anthropology.*

ART—ART

Professor Nancy L. Wicker, chair • 116 Meek Hall

Professors Dale, Murray, and Temple • Associate Professors Crouther and Dewey • Assistant Professors Chavis, Kloman, and Rieth • Adjunct Assistant Professors Antonow, Beckwith, Lewis, Malone, and Sperath • Visiting Assistant Professors Conley and Sparks

Art Fundamentals

101. TWO-DIMENSIONAL DESIGN. Through reading, discussion, and projects, the foundations course introduces students to the studio method while exploring the fundamentals of two-dimensional design. Recommended studio art elective. (3).

111. DRAWING I. An introduction to traditional drawing techniques and skills with a primary focus on perspective. Prerequisite or corequisite: ART 101. (3).

211. DRAWING II. A further development of traditional drawing skills and techniques explored through a variety of media. Prerequisites: ART 101, 111. (3).

300. THREE-DIMENSIONAL DESIGN. Through readings, discussion, and projects, the foundation studio explores design in three dimensions. (3).

Computer Graphics

202. COMPUTER IMAGE-MAKING. Introductory experience in the use of computers with graphics and illustrative capability. Students will generate and manipulate pictorial images by using various computer technologies. Prerequisites: ART 101, 111. (3).

302. INTERMEDIATE COMPUTER GRAPHICS. Theoretical and technical exploration of the various uses for computer-based imagery, including basic multimedia and Internet development. Prerequisite: 202. (3).

345. ART AND THE COMPUTER. Studio investigation in the aesthetic and perceptual possibilities of using the computer in the art-making process. Introductory technical instruction and advanced conceptual exploration of computer graphics technologies and their potential for advancement as an artistic media. Students are given theoretical and practical discourse as well as hands-on experience. Prerequisites: ART 202, 300, 321, or consent of instructor. (3).

445. ADVANCED COMPUTER GRAPHICS. Advanced conceptual and technical exploration of computer-generated imagery. Potential topics include historical issues in computer graphics, Internet development, multimedia, two- and three-dimensional animation, and image manipulation. Prerequisite: ART 302 or consent of instructor. (May be repeated once for credit). (3).

446. SPECIAL PROBLEMS IN COMPUTER GRAPHICS. Individually structured studies based on the student's area of interest. Individually selected topics could include Internet development, multimedia, interactivity, two- or three-dimensional animation, and static image manipulation. Prerequisite: ART 445 or consent of instructor. (May be repeated once for credit). (3).

502. STUDIES IN COMPUTER IMAGE MAKING. Studio investigation in the use of computers with graphics and illustrative capability. Generation and manipulation of pictorial images by using various computer technologies. Aesthetic and conceptual exploration of computer-generated imagery. (May be repeated once for credit). (3).

Graphic Design/Illustration

301. GRAPHIC DESIGN I. Study of the formal aspects of graphic design with emphasis in typography and its use in the graphic design process; a history of type design and applied problems in composing publications with type and the use of the computer in finalizing projects. Prerequisites: 202, 211. (3).

303. GRAPHIC DESIGN II. Instruction in theory and techniques involving illustration and layout preparation for publications. Prerequisite: ART 301. (3).

304. ILLUSTRATION. Visual and conceptual exploration of various techniques and media involved in artwork for reproduction in publications. Prerequisite: ART 303. (3).

400. GRAPHIC DESIGN III. Theory and techniques of design for package production with instruction in preparing prototypes. Prerequisite: ART 303. (3).

403. ADVANCED INDIVIDUAL STUDIES IN GRAPHIC DESIGN AND ILLUSTRATION. Course work directed toward preparing professional portfolio materials in the student's area(s) of interest. Prerequisite: a minimum of 9 hours in upper-level visual communication courses. (3).

444. MULTIMEDIA DESIGN AND DEVELOPMENT. In-depth analysis of multimedia architecture and tools. Students implement an interactive multimedia brochure. Prerequisites: 202, 303. (Same as CSCI 444.) (3).

Drawing

311, 312. FIGURE DRAWING I, II. Drawing from the model with an emphasis on skeletal and anatomical structure. Prerequisites: ART 101, 211. (3).

411. ADVANCED DRAWING. Continued exploration of media and techniques with emphasis on individual directions. Prerequisite: ART 312. (May be repeated for credit). (1-6).

Painting

321, 322. BEGINNING PAINTING I, II. Fundamentals in materials and techniques, including varied supports, grounds, and media. Work from still life and figures. Prerequisites: ART 101, 211. (3, 3).

326. WATERCOLOR. Water painting techniques and the use of materials and tools for the exploration of water-based media on paper. Prerequisites: ART 202, 211. (3).

421. PAINTING. Further development in techniques with emphasis on individual selection of content. Prerequisite: ART 322. (May be repeated for credit). (1-6).

426. ADVANCED WATERCOLOR. Advanced water base painting techniques combined with mixed media on paper. Prerequisite: ART 326. (3).

Photography

390. INTRODUCTION TO PHOTOGRAPHY. Photographic fundamentals and camera techniques applied to basic black-and-white photography. Course emphasizes students developing a personal point of view. Requires that student have 35mm camera with adjustable aperture and shutter speed. (3).

391. INTERMEDIATE PHOTOGRAPHY. Continues emphasis on fundamentals of photography applied to black-and-white developing and printing. Stresses fine darkroom techniques, the development of a personal aesthetic and the presentation of photographs. Prerequisite: ART 390. (3).

392. ADVANCED PHOTOGRAPHY. Stresses medium format and view camera techniques; archival processing; toning; and museum presentation of a coherent series of images. Prerequisite: ART 391. (3).

Pottery and Ceramics

340. BEGINNING CERAMICS. An introduction to clay through constructive techniques, emphasizing three-dimensional form and design. No prerequisite. (3).

341. POTTERY. Exploration of the vessel form, using the potter's wheel as the primary construction technique. Prerequisite: ART 340. (3).

342. HANDBUILDING. Exploration of the three-dimensional form, with clay and glazes the primary media. Prerequisite: ART 340. (3).

441. ADVANCED CERAMICS. Advanced study of three-dimensional form and ceramic techniques, including in-depth study in one area of concentration with strong emphasis on individual expression and research. Prerequisites: ART 341 and 342. (May be repeated for credit). (1-6).

Printmaking

371. INTRODUCTION TO RELIEF AND PLANOGRAPHIC PRINTMAKING. Lectures, discussions, demonstrations, and studio projects introducing woodcut, linoleum, embossing, and planographic printmaking processes. Prerequisites: ART 101 and 211. (3).

372. INTRODUCTION TO INTAGLIO PRINTMAKING. Lecture, discussions, demonstrations, and studio projects introducing etching, aquatint, metal engraving, collagraph, and dry-point processes. Prerequisites: ART 101 and 211. (3).

471. ADVANCED PRINTMAKING. Individual exploration of relief, intaglio, planographic, and new techniques of printmaking. Prerequisites: ART 371, 372. (May be repeated for credit). (1-6).

Sculpture

331. BEGINNING SCULPTURE. Introduction to techniques, materials, and concepts including plaster, wood, environmental, and presentation. Prerequisite: ART 300. (3).

332. INTERMEDIATE SCULPTURE. Continuation of investigation into materials and techniques, including welding and foundry practice. Prerequisite: ART 331. (3).

431. ADVANCED SCULPTURE. Advanced problems in studio techniques and conceptual development. Emphasis upon individual expression and research. Prerequisite: ART 332. (May be repeated for credit). (1-6).

Special Areas

205. INTRODUCTION TO INTERIOR DESIGN. Art elements and principles applied to furnishing and decorating the interior. Prerequisite: ART 101, 111, or consent of instructor. (Lecture with outside lab). (3).

308. ARTS ADMINISTRATION. Principles and practices of arts management and administration. Interdisciplinary approach covers museology, fund raising, grant writing, appraising, accounting, laws, and publications. (3).

315. THE CRAFT OF OLD-MASTER DRAWINGS AND PAINTINGS. Technical (studio) exploration and historical appreciation of a variety of drawing and painting media generally uncommon in contemporary art; silver and leadpoint, chiaroscuro, quill and reed pens with bistre, sepia and iron-gall inks, natural and fabricated chalks, egg tempera, encaustic, oil glazing and fresco (buon fresco) and handmade paper. (3).

334. INTRODUCTION TO FIELD WORK TECHNIQUES. Examination of the theory, practice, and tradition of documentary field research, including the use of photography, film and video, and tape recorders. Special emphasis of documentary study of the American South. (Same as S ST 334, ANTH 334, and SOC 334). (3).

380. STUDIO FOR FIGURE STUDY. Exploration of varied methods of depicting the human form, using two- and three-dimensional media. (3).

398. SPECIAL TOPICS IN ART. Topics in studio art. (May be repeated once for credit.) Prerequisite: ART 211 and consent of the instructor. (3).

410. ART INTERNSHIP. Individually planned work experience relating to a major area of emphasis; open to art majors of junior standing or above with consent of instructor. Prerequisite: consent of instructor. (3).

480. EXHIBITION SEMINAR. Exhibition organization including preparation of prospectus, publicity, fund raising, slide and/or work organization, researching and writing on exhibition program and/or catalog, educational programming, installing and dismantling the exhibition. (3).

490. DIRECTED INDIVIDUAL PROBLEMS. Prerequisite: consent of instructor. (1-6).

534. STUDIES IN DOCUMENTARY FIELD WORK. Interdisciplinary study of the theory, practice, and tradition of documentary field research through readings, photography, films and videotapes, audio recordings, and field notes. (Same as S ST 534, ANTH 534). (3).

Thesis

350. B.F.A. FORUM. Discussion of the individual's development as an artist with a focus on the practice of critique. Required of all B.F.A. students each semester, after admittance to the B.F.A. program, except during Thesis, ART 491. Prerequisite: admission to the B.F.A. program. (May be taken for a maximum of six hours of credit.) (1). (Z grade).

491. THESIS. This course requires the design and fabrication of a cohesive body of artwork presented through a professional quality exhibition. Prerequisites: senior status and admission to the B.F.A. program. (1-3).

492. SENIOR SEMINAR. Directions, problems, and ethics encountered in the practice of art as a profession. Prerequisite: senior status. (1). (Z grade).

Art Education–ARED

361. TEACHING OF ART IN THE ELEMENTARY SCHOOL. Principles basic to selection of materials and the guidance of activities appropriate to the kindergarten through the elementary school program. Prerequisite: consent of instructor. (Lecture with outside lab). (3).

367. CLASSROOM PRACTICE IN ART EDUCATION. Development of individual skills in selected areas of arts and crafts appropriate to the kindergarten through the secondary school. Prerequisite: EDCI 351 or consent of instructor. (Lecture with outside lab). (3).

461. PHILOSOPHY OF ART EDUCATION. Philosophies in art education and their relationship to planning, development, evaluation, and administration of art education programs; emphasis on secondary level teaching. (3).

462. ART FOR ATYPICAL INDIVIDUALS. Appropriate art activities for the elderly, gifted, physically and/or emotionally impaired, and those enrolled in nontraditional learning situations. (3).

463. INTERNSHIP IN TEACHING ART. Principles basic to selection of materials; guidance of appropriate activities for students in their internship experience. (Lecture with outside lab). Corequisite: EDLE 471. (3).

565. ART WORKSHOP I. Principles basic to selection of materials and the guidance of activities appropriate to the kindergarten through the secondary school program. (3).

567. ART WORKSHOP II. Development of individual skills in selected areas of art and crafts appropriate to the kindergarten through the secondary school program. (3).

Art History, Appreciation and Criticism–ARHI

281. INTRODUCTION TO WESTERN ART. For all students interested in acquiring an understanding of the visual arts. An introductory survey of painting, sculpture, and architecture in the Western world. Will not count toward art major. (3).

283. HISTORY OF ART I. Introduction to art history from prehistoric and ancient cultures through the Middle Ages. Includes representative examples and styles of art and architecture of Western and non-Western cultures. (3).

284. HISTORY OF ART II. A survey of the representative movements and masters in the historical development of Western and non-Western painting, sculpture, and architecture from the 13th century through the present. (3).

286. INTRODUCTION TO NON-WESTERN ART. A chronological and comparative survey of art in non-western areas of the world. (3).

315. ART ON LOCATION. Exploration of the arts and architecture of a major metropolitan area or region within the United States. (3).

318. GREEK VASE PAINTING. Designed for undergraduates with an interest in the classical world, the course will cover prehistoric through Hellenistic Greek vase painting, utilizing the Robinson Collection at the University Museums. (Same as CLC 318). (3).

319. GREEK SCULPTURE. Designed for undergraduates with an interest in the ancient world, the course will cover archaic through Hellenistic Greek sculpture. (Same as CLC 319). (3).

320. GREEK ARCHITECTURE. An introduction to the principles of ancient architecture through a study of monuments and sites in Greece and Asia Minor. (Same as CLC 320). (3).

321. GREEK ART AND ARCHAEOLOGY. Development of painting, sculpture, and architecture in the Greek world from the Late Bronze Age to Hellenistic times. (Same as CLC 321). (3).

322. ROMAN ART AND ARCHAEOLOGY. Roman architecture, sculpture, and painting. (Same as CLC 322). (3).

323. BRONZE AGE GREEK AND AEGEAN ARTS AND ARCHITECTURE. Offered every third year in sequence with ARHI 324 and 325. (Same as CLC 323). (3).

324. EGYPTIAN ART AND ARCHITECTURE. Offered every third year in sequence with ARHI 323 and 325. (Same as CLC 324). (3).

- 325. ETRUSCAN ART AND ARCHITECTURE.** Offered every third year in sequence with ARHI 323 and 324. (Same as CLC 325). (3).
- 328. ASIAN ART.** Special topics in the major and minor arts of China, Japan, and India with consideration of religious, historical, and geographical influences. (May be repeated once for credit). (3).
- 329. AMERICAN INDIAN ARTS.** Arts of the American Indians in the United States and Canada; emphasis on sculpture, textiles, basketry, leatherwork, beadwork, ceramics, habitations, and oral history. (3).
- 333. PRE-COLUMBIAN ARTS.** Interdisciplinary approach to the history of the arts of middle America from 1500 B.C. to the present, covering Olmec, Maya, Mixtec, and Aztec civilizations. (Same as ANTH 333). (3).
- 338. AFRICAN AND AFRICAN-AMERICAN ARTS.** Interdisciplinary approach to the continuities between traditional and contemporary African and African-American arts, with emphasis on architecture, sculpture, ceramics, textiles, basketry, jewelry, dance, and music. (Same as AAS 329). (3).
- 346. FOLK ARTS OF THE AMERICAS.** Multicultural introduction to American folk art from the Pilgrim settlements in New England to the popular arts of the 20th century; indigenous/native arts from Alaska to Mexico and Peru. (3).
- 348. SOUTHERN FOLK ARTS.** Interdisciplinary approach to the history of folk arts in the Southern United States. Emphasis on field research and development of exhibits. (3).
- 349. HISTORY OF SOUTHERN ART AND DECORATIVE ARTS.** Southern art and decorative arts from 18th century seaboard culture to the present. Course will stress indigenous Southern characteristics and adaptation of imported styles and attitudes. (3).
- 350. SOUTHERN ARCHITECTURE AND INTERIORS.** Southern architecture and interiors from 18th century seaboard culture to the present. Course will stress indigenous Southern characteristics and adaptation of imported styles and attitudes. (3).
- 352. ART NOUVEAU, ART DECO, AND STREAMLINING.** Three major movements from 1890 to 1940 in European and American design, with focus upon design sources, theory, characteristics, and leading figures in interior design and decorative arts. Illustrated lectures. (3).
- 355. HISTORY OF PHOTOGRAPHY.** Study of the technical and expressive evaluation of photography from Daguerre to the present. (3).
- 362. EARLY CHRISTIAN, BYZANTINE, AND ISLAMIC ART.** Art and architecture of the second through early 13th centuries in the Mediterranean region, including Early Christian art in Western Europe, Byzantine art in Eastern and Western Europe, Early Christian art in the Roman provinces in the Holy Land, and Islamic art within Europe. Prerequisite: ARHI 283 or permission of instructor. (3).
- 364. EARLY MEDIEVAL ART AND ARCHAEOLOGY.** Art and architecture of the fourth through early 12th centuries in Eastern and Western Europe, including Christian and pre-Christian cultures. Art of so-called barbarian groups from Hungary to England and Scandinavia as well as art of the Carolingian and Ottoman Empires. Prerequisite: ARHI 283 or permission of instructor. (3).
- 366. VIKING ART AND ARCHAEOLOGY.** Art and archaeology of the Viking world at home in Scandinavia and in the lands to which the Vikings traveled, including Russia, England, and Iceland. Covers pre-Viking art styles of the fifth century through late Viking styles of the 11th century. Prerequisite: ARHI 283 or permission of instructor. (3).
- 368. ROMANESQUE AND GOTHIC ART.** Art and architecture of the later Medieval period, including Romanesque and Gothic art of Western Europe from the 12th through the 15th centuries. Prerequisite: ARHI 283 or permission of instructor. (3).
- 382. MEDIEVAL ART.** History and appreciation of art movements in early Christian, Byzantine, Romanesque, and Gothic periods. Illustrated lectures. (3).
- 385. NORTHERN RENAISSANCE ART.** A study of significant movements and developments in the graphic arts, sculpture, and architecture in Germany, France, and the Netherlands from 1300 to 1600 A.D. Post-Renaissance "Mannerism" is discussed within this course cycle. Illustrated lectures. (3).
- 386. ITALIAN RENAISSANCE ART.** A study of the major developments in the mediums of the graphic arts, sculpture, and architecture in Italy from the 13th century through 16th century "Mannerism." Illustrated lectures. (3).
- 389. BAROQUE AND ROCOCO ART AND ARCHITECTURE.** History and analysis of European art movements from the 17th century to the French Revolution. Illustrated lectures. (3).

- 392. 19TH CENTURY EUROPEAN ART.** An examination of the major European styles from Neoclassicism through Post-Impressionism. Illustrated lectures. (3).
- 394. 20TH CENTURY ART.** A concentrated study of 20th century American and European art and philosophies. (3).
- 395. AMERICAN ART ON PAPER.** An examination of the prints, drawings and watercolors, including folk art, illustration and artists' sketches, produced in America during the past 300 years. (3).
- 396. AMERICAN ART TO 1900.** History of American painting, sculpture, architecture, interiors, furniture, other decorative arts, and folk art from the Colonial Period to 1900. Illustrated lectures. (3).
- 398. SURVEY OF BLACK AMERICAN ART.** History and appreciation of the art of black Americans with emphasis on painting, sculpture, architecture, and other plastic art forms. Illustrated lectures. (Same as AAS 395). (3).
- 399. MODERN ARCHITECTURE AND INDUSTRIAL DESIGN.** The development of architectural and industrial design in Europe and America from 1800-1963 with emphasis upon new materials and engineering. Illustrated lectures. (3).
- 405. TOPICS IN ART HISTORY ABROAD.** Students complete departmentally approved course work at a foreign university. May be repeated once with permission of chair of the Department of Art. (2-6).
- 410. ART ADMINISTRATION INTERNSHIP.** Individually planned work experience in a museum, gallery, or art organization. Junior standing or above and consent of instructor. (This course may not be used to satisfy the fine or performing arts requirements). (1-3).
- 481. CONTEMPORARY ART, ARCHITECTURE, AND DESIGN.** Contemporary art movements and philosophies. (3).
- 488. HISTORY OF PRINTMAKING.** Art in the graphic media in western Europe, the United States, and Asia from the 15th century to the recent past. (3).
- 493. SEMINAR IN ART HISTORY.** Specific problems in art emphasizing both individual research and contributions to the seminar group on advanced, in-depth topics. Content varies; may be repeated once for credit. Prerequisite: consent of instructor. (3).
- 494. TOPICS IN ART HISTORY.** Lecture and discussion course on a selected area of discourse relating to the study of art history or art criticism. May focus on a specific artist, style, period, cultural group, or technical or methodological problem. Content varies; may be repeated once for credit. Prerequisite: consent of instructor. (3).
- 495. ART THEORY AND CRITICISM.** Topics and problems concerning theory and criticism in the arts. Interdisciplinary approach; with analysis of specific works of art. Illustrated lectures. (3).
- 496. RESEARCH AND WRITING IN ART.** Methods of research, bibliography, use and criticism of source material, individual reports, and presentation of papers. Required of all art history majors and all B.F.A. candidates in the junior year. Prerequisites: ARHI 283, 284. (3).
- 497. SELECTED READINGS IN ART HISTORY AND CRITICISM.** Prerequisite: Senior status and consent of instructor. (1-3).
- 499. COMPREHENSIVE EXAMINATION.** Required of all art history majors; to be taken during the last semester in residence. (0).

ASTRONOMY *See the Department of Physics and Astronomy.*

AUDIOLOGY *See the Department of Communicative Disorders.*

BIOLOGY—BISC

Professor Murray Nabors, chair • 214 Shoemaker Hall

Professors Gaston, Holland, Keiser, Lago, Parsons, and Threlkeld • Associate Professors Brewer, Buchholz, D'Surney, Mikell, and Ochs • Assistant Professors T. Goulet, Halda-Alija, Jones, Reed, and Starr • Instructors Garrison, D. Goulet, McCook, and Stratton

100. AN INTRODUCTION TO THE STUDY OF BIOLOGY. A one-credit hour course for students in the Biology Learning Community. This course will explore various aspects of the biological sciences, academic support services, and introduce students to departmental faculty and careers. (1).

102. INQUIRY INTO LIFE-HUMAN BIOLOGY. A survey course intended for nonbiology majors, introducing basic principles and emphasizing the function of the human body, including diseases, cellular processes, respiration, muscular system, reproduction, development, immunity, and inheritance. Will not count for credit if BISC 160 is counted. Applies to the science requirement of the core curricula. Associated laboratory is BISC 103. (3).

103. INQUIRY INTO LIFE LABORATORY I. Laboratory to accompany BISC 102. BISC 102 and 103 together are applicable to the laboratory science requirements of core curricula. Will not count for credit if BISC 161 is counted. (1).

104. INQUIRY INTO LIFE: THE ENVIRONMENT. A survey course intended for nonbiology majors, emphasizing the relationships of humans to the environment, including origin and diversification of life, behavior, ecology, role of plants, and environmental concerns. Applies to the science requirement of the core curricula. Associated laboratory is BISC 105. Prerequisite: BISC 102 or permission of the instructor. Will not count for credit if BISC 162 is counted. (3).

105. INQUIRY INTO LIFE LABORATORY II. Laboratory to accompany BISC 104. BISC 104, 105 together are applicable to the laboratory science requirement of core curricula. Will not count for credit if BISC 163 is counted. (1).

160. BIOLOGICAL SCIENCES I. A comprehensive treatment of the major principles of modern biology. Intended primarily for biology majors and minors and pre-professional biomedical students. Applies to the science requirement of core curricula. Prerequisite: minimum ACT mathematics score of 22 (SAT 510) or B minimum in MATH 121. Corequisite laboratory is BISC 161. (3).

161. BIOLOGICAL SCIENCES I LABORATORY. Laboratory to accompany BISC 160. Corequisite: BISC 160. (1).

162. BIOLOGICAL SCIENCES II. Continuation of BISC 160. A comprehensive treatment of the major principles of modern biology. Intended primarily for biology majors and minors and for pre-professional biomedical students. Applies to the science requirement of the core curriculum. Corequisite laboratory is BISC 163. Prerequisites: BISC 160, 161. (3).

163. BIOLOGICAL SCIENCES II LABORATORY. Laboratory to accompany BISC 162. Corequisite: BISC 162. (1).

164H. HONORS RECITATION I. Amplification of the principles covered in BISC 160 and 161. Must be taken concurrently with BISC 160, 161. (1).

165H. HONORS RECITATION II. Amplification of the principles covered in BISC 162 and 163. Must be taken concurrently with BISC 162, 163. (1).

206. HUMAN ANATOMY AND PHYSIOLOGY. (Nonmajors only). Structure and function of the human body; for pre-nursing, pre-medical record administration, and other paramedical students. (3 lecture, 2 lab hours). (4).

207. HUMAN ANATOMY AND PHYSIOLOGY. Continuation of BISC 206. (Nonmajors only.) May not be counted toward a major or minor in the Department of Biology. (3 lecture, 2 lab hours). (4).

210. PRINCIPLES OF MICROBIOLOGY. An introductory course in microbiology emphasizing sanitation, disease, food, and industrial microbiology. The course is designed for students in health related studies such as pre-nursing, nutrition, and pre-dental hygiene. Applies to the laboratory science requirement of the core curriculum. May not be counted toward major or minor credit in the Department of Biology. (3 lecture, 1 lab). (4).

ADVISERS AND STUDENTS NOTE: BISC 160, 161, 162, and 163 or their equivalents are prerequisites for all courses numbered 300 and above. Additional prerequisites are indicated in many course descriptions.

- 300. RESEARCH METHODS IN BIOLOGY.** Examinations of discovery approaches used in the biological sciences, development of scientific theory, strengths and weaknesses of different research methods, basic concepts of biometry and experimental design, library skills, funding, publications, peer review, and ethics. Prerequisite: BISC 162. (3).
- 306. VIROLOGY.** Fundamental biology and biochemistry of bacterial, animal, and plant viruses. (3).
- 318. BOTANY.** Basic botany for majors, minors, and pre-professional students. (4).
- 320. INTRODUCTORY MARINE BIOLOGY.** Principles of marine biology, ecology, distribution, and physiology of marine organisms. Prerequisite: BISC 162 or consent of instructor. (3).
- 321. INTRODUCTORY AQUATIC BIOLOGY.** Principles of freshwater biology with emphasis on factors affecting ecology and populations in diverse aquatic environments. (2 lecture, 2 lab hours). (3).
- 322. GENERAL ECOLOGY.** Basic principles of ecology of plants and animals. (3 lecture, 2 lab hours). (4).
- 329. BIOLOGY OF FISHES.** Systematics, ecology, and morphology of fishes. (4).
- 330. INTRODUCTORY PHYSIOLOGY.** Survey of mammalian physiology. Prerequisites: CHEM 105, 106. (3 lecture, 2 lab hours). (4).
- 331. COMPARATIVE ANATOMY OF THE VERTEBRATES.** Anatomy and evolutionary development of vertebrates. (3 lecture, 3 lab hours). (4).
- 332. COMPARATIVE EMBRYOLOGY OF THE VERTEBRATES.** Principles of morphogenesis and evolution of selected vertebrates. Prerequisite: BISC 331 or consent of instructor. (3 lecture, 3 lab hours). (4).
- 333. GENERAL MICROBIOLOGY.** Morphology, taxonomy, ecology, physiology of bacteria and related microorganisms; basic techniques. Prerequisites: CHEM 105, 106. (4).
- 334. ORNITHOLOGY.** Taxonomy, ecology, and biology of birds. (4).
- 335. HUMAN REPRODUCTION.** Physiological and endocrinological information basic to understanding human reproductive processes. (3).
- 336. GENETICS.** Basic principles of the patterns of inheritance and mechanisms of gene action. Classical, molecular, and population genetics introduced. (4).
- 337. INTRODUCTORY ENTOMOLOGY.** Basic entomology for majors: insect morphology, ecology, taxonomy, physiology, and bionomics. (4).
- 338. INVERTEBRATE ZOOLOGY.** The anatomy, life cycles, habitats, and evolution of animals of the major phyla are stressed. The insects will be presented only to the extent needed for recognition. (2 lecture, 4 lab hours). (4).
- 339. PHYCOLOGY.** Phylogeny, morphology, physiology, and ecological relationships of algae. (4).
- 342. PLANT DIVERSITY.** Examination of processes and patterns underlying plant diversification, including a survey of the evolution of major groups and associated dynamics of life history and morphology. (4).
- 345. SYMBIOSIS: FROM PARASITISM TO MUTUALISM.** Ecology and evolution of symbiosis. (3).
- 350. MAMMALOLOGY.** Anatomy, physiology, behavior and evolutionary history of mammals. (2 lecture, 2 lab hours). (3).
- 370. INTRODUCTORY MOLECULAR GENETICS.** An introductory course emphasizing structure and function of DNA. The molecular biology of human genetics is introduced. Prerequisites: BISC 160. (3).
- 399. LISTING FOR IB (Individual Basis) COURSES.** (1-6).
- 414. IMMUNOLOGY AND SEROLOGY.** Principle of humoral and cellular immune response; physiological and molecular bases of immune mechanisms. (3).
- 415. VERTEBRATE HISTOLOGY.** Structure of principal tissue types and organ systems. Prerequisite: BISC 330 or consent of instructor. (4).
- 416. ELEMENTARY PARASITOLOGY.** Introduction to parasitic groups, collection, identification, and preservation of specimens. (2 lecture, 4 lab hours). (4).
- 435. RESEARCH EXPERIENCES IN FRESHWATER BIOLOGY.** Undergraduate research experience in freshwater systems, emphasizing research study design, quantitative and descriptive methods and instrumentation for analysis of physical, chemical, and biological samples; use of computers in data acquisition, analysis, and interpretation; fundamentals of research report preparation and presentation. (2 lecture, 6 lab hours). (4).
- 440. CELL AND MOLECULAR BIOLOGY.** A study of molecules and biochemical processes essential to life: emphasis on the vital molecular mechanisms in mammals. Prerequisites: CHEM 105, 106, and BISC 330, 336 or permission of the instructor. (4).

- 479. SPECIAL TOPICS IN BIOLOGY.** Advanced topics in biology. Topics may vary. This course may be repeated once for credit with a different topic. (1-3).
- 491. DIRECTED STUDY IN BIOLOGICAL SCIENCES I.** Independent research project of mutual student/faculty interest conducted under the supervision of biology faculty. Requirements include a research paper and/or presentation. Students must contact a faculty sponsor before enrollment. May be repeated for up to 3 hours cumulative credit. (Two hours per week per credit hour attempted). (1-3).
- 492. DIRECTED STUDY IN BIOLOGICAL SCIENCES II.** Similar to BISC 491 except that the credit hours cannot be applied to the degree requirements of a major or minor in biology. Prerequisite: BISC 491. (1-3).
- 498. MAJOR FIELD ACHIEVEMENT TEST.** Students take the biology MFAT, a nationally applied test to evaluate basic knowledge and understanding gained in the undergraduate biology curriculum. Required for graduation as a biology major. (0).
- 499. LISTING FOR IB (Individual Basis) COURSES.** (1-6).
- 502. MYCOLOGY.** Fungi of economic importance; their distribution, biology, and control; collection, identification, and nutrition. (4).
- 504. BIOMETRY.** A biology course on design of biological experiments and analysis of biological data using parametric and nonparametric methodology through multivariate analysis, emphasizing use of mainframe and microcomputer and analytical packages. Prerequisites: At least 15 hours of biology and MATH 121 or consent of instructor. (3).
- 505. AQUATIC MICROBIOLOGY.** Principles and applications of the microbiology of lakes, reservoirs, streams, oceans, and sewage treatment processes. Prerequisite: BISC 333. (4).
- 509. MICROBIAL GENETICS.** Genetics and molecular biology of bacteria and viruses. Prerequisite: BISC 333. (4).
- 510. THEORETICAL ECOLOGY.** Advanced course in ecology emphasizing modern conceptual and mathematical models of ecological phenomena. Students will use the computers in the simulation of the above processes. Prerequisites: BISC 322 and Math 121 (Calculus preferred) or consent of instructor. (3).
- 511. APPLIED MICROBIOLOGY.** Applications of microorganisms in industry, agriculture, food and beverage production, wastewater treatment, biohydrometallurgy, and bioremediation of environmental pollutants. Prerequisite: BISC 333. (4).
- 512. ANIMAL BEHAVIOR.** The significance of the behavior of animals with emphasis on current evolutionary and ecological approaches. Topics include genetics of behavior, adaptation, fitness, behavioral polymorphism, and communication. Prerequisite: BISC 322. (4).
- 513. LIMNOLOGICAL METHODS.** Field and laboratory techniques in freshwater ecology. Prerequisite: consent of instructor. (1 lecture, 4 lab hours). (3).
- 514. POPULATION GENETICS.** Basic principles of the factors which influence the genetic composition of natural and artificial populations. Topics covered will include selection, migration, mutation, genetic drift, mating systems, and quantitative genetics. Prerequisites: BISC 336 and MATH 121. (3).
- 515. CONSERVATION BIOLOGY: VIABLE POPULATIONS.** A course on the genetics, evolution, and population ecology of endangered and threatened species of plants and animals. The course will concentrate on the application of theory to predicting population viability and preventing extinction. Prerequisites: BISC 322, 336, and MATH 121. (3).
- 516. PLANT PHYSIOLOGY.** Growth and development in plants; emphasis on assimilation, chemical control of growth, and environmental physiology. Prerequisite: CHEM 105, 106. (3 lecture, 2 lab hours). (4).
- 518. MICROTECHNIQUE.** Techniques of fixing, embedding, sectioning, and staining tissue. Prerequisite: BISC 415. (4).
- 519. PHYSIOLOGY OF AQUATIC ANIMALS.** The physiology and physiological adaptations of aquatic animals, with emphasis on freshwater animals. Prerequisite: BISC 330 or consent of instructor. (4).
- 520. MEDICAL MICROBIOLOGY.** The nature of infectious microorganisms with emphasis on mechanisms of pathogenicity and epidemiology. Prerequisite: BISC 333 or consent of instructor. (3).
- 521. CELL PHYSIOLOGY.** Basic principles and practices of molecular and cellular physiology. Prerequisite: BISC 330, CHEM 221, 222. (3 lecture, 2 lab hours). (4).
- 522. MICROBIAL ECOLOGY.** Factors that govern the interrelationships between microorganisms and their environments, including microbial energetics, nutrient cycles, aquatic and terrestrial environments, microbial interfaces, methodology. Prerequisite: BISC 333 or consent of instructor. (3).

- 523. MOLECULAR MICROBIOLOGY OF SOILS AND SEDIMENTS.** A course emphasizing habitats and microorganisms found in the soil and sediments and their relationship to soil management, agricultural production, and environmental quality. (3).
- 524. AQUATIC BOTANY.** Ecology and physiology of vascular plants occurring in fresh water. (4).
- 525. CONSERVATION AND RESTORATION ECOLOGY.** Addresses the efficacy of applying principles of population, community, and landscape ecology to the design, restoration, management, and protection of biological reserves. (3).
- 526. SURVEY OF THE AMPHIBIA.** An introduction to the taxonomy, morphology, and evolution of salamanders, frogs, and caecilians. May not be counted for credit if BISC 546 or BISC 640 is counted. (3).
- 527. SURVEY OF THE REPTILIA.** An introduction to the taxonomy, morphology, and evolution of crocodilians, snakes, lizards, amphisbaenians, and turtles. May not be counted for credit if BISC 546 or BISC 641 is counted. (3).
- 529. ENDOCRINOLOGY.** Vertebrate endocrine systems. Prerequisites: BISC 330, CHEM 221, 222. (4).
- 530. ADVANCED FIELD STUDY IN ECOLOGY.** Extended field trip experience illustrating ecological principles, biological diversity, and major biotic regions; may be repeated for credit if topic changes. Prerequisites: BISC 322 or equivalent and permission of instructor. (4).
- 531. PLANT MORPHOLOGY.** Development and life histories of major plant groups: emphasis on vascular plants. Prerequisite: any 300-level or above biology course. (4).
- 532. PLANT TAXONOMY.** Survey of the diversity of vascular plants of the world, including their historical and modern classification, nomenclature, and identification. Prerequisite: BISC 318 or consent of instructor. (4).
- 534. FRESHWATER INSECTS.** Identification and biology of insects associated with fresh water. Prerequisite: BISC 337 or consent of instructor. (2 lecture, 4 lab hours). (4).
- 542. MICROBIAL DIVERSITY.** Ecology, physiology, and taxonomy of microorganisms isolated from natural habitats. Prerequisite: BISC 333. (4).
- 545. MICROBIAL PHYSIOLOGY.** Biochemical processes of microbial cells. Prerequisite: 333. (4).
- 546. HERPETOLOGY.** Studies on the systematics, morphology, evolution, and natural history of amphibians and reptiles. (2 lecture, 4 lab hours). (May not be counted for credit if BISC 548 and 549 are counted). (4).
- 547. ADVANCED HISTOLOGY.** Essential features of microscopic anatomy and development of selected tissues and organs. Prerequisite: BISC 415 or consent of instructor. (4).
- 550. BIOLOGICAL OCEANOGRAPHY.** Course examines the biota of the world's oceans and its relationship to the abiotic environment. Physical, chemical, and geological aspects of oceanography also will be considered. Prerequisites: 16 hours upper-division biology or consent of instructor. (4).
- 551. PROTOZOOLOGY.** Structure, reproduction, growth, collection, and methods of culture of protozoa organisms. Prerequisite: consent of instructor. (4).
- 553. COMPARATIVE ANIMAL PHYSIOLOGY.** Comparative and integrative investigation of the structure and mechanisms of the physiological systems of animals. Emphasis on adaptive strategies expressed in physiological systems. Prerequisite: BISC 330 or consent of instructor. (3).
- 554. ECOLOGICAL PHYSIOLOGY.** Systemic function of organisms in relation to the natural environment. (4).
- 555. RADIATION BIOLOGY.** Effects of radiation on living material at all levels of organization. Prerequisite: consent of instructor. (3 lecture, 2 lab hours). (4).
- 566. EVOLUTIONARY BIOLOGY.** Lectures and assigned readings on modern evolutionary theories, with emphasis on speciation and processes operating at the population level of organization. Prerequisite: 15 hours of biology or permission of instructor. (3).
- 567. EVOLUTIONARY BIOLOGY LABORATORY.** Laboratory to accompany BISC 566. Corequisite: BISC 566. Prerequisite: 15 hours of biology or permission of instructor. (2 lab hours). (1).
- 571. HISTORY OF BIOLOGY.** (3).
- 579. ADVANCED TOPICS IN BIOLOGY.** Advanced topics in biology for both graduate and undergraduate students. Topics may vary. This course may be repeated once for credit with a different topic. (1-3).

Study Abroad Courses

The following biology courses will be taught overseas periodically and depending upon faculty availability and enrollment. Students will be required to pay a fee for each course and to provide their own travel. All courses except BISC 220 will count for credit toward the B.A. or B.S. in biological science.

220. NATURAL RESOURCE MANAGEMENT. A study of the natural resources of tropical regions with emphasis on forestry, agriculture, wildlife management, coastal development, and multi-use planning. May not be counted for a major or minor in biology. (3-6).

380. TOPICS IN BIOLOGY ABROAD. Biology course intended for Study Abroad. May be repeated for credit with chair's permission for no more than eight hours cumulative credit. Prerequisite: consent of instructor. (1-8).

441. TROPICAL BOTANY. Field survey of the plants of tropical ecosystems with discussions regarding tropical plant diversity, ecology, and rain forest dynamics. Prerequisite: consent of instructor. (4).

445. INTRODUCTION TO CORAL-REEF ECOLOGY. Field studies of the principles of coral-reef ecology including a survey of the organisms and discussions of factors affecting reef communities. Prerequisite: consent of instructor. (4).

446. FISHES OF THE TROPICS. Field surveys of the fishes inhabiting marine and coastal waters of the tropics. Topics to include systematics, ecology, physiology, and morphology of fishes. Prerequisite: consent of instructor. (4).

447. NEOTROPICAL FOREST HERPETOLOGY. Field studies on the biology of amphibians and reptiles of tropical ecosystems with emphasis on rain forest and upland pine forest habitats. Prerequisite: consent of instructor. (4).

448. TROPICAL STUDIES IN BIOLOGY. Field studies of ecology and biogeography of tropical ecosystems with emphasis on vertebrates as models for population, genetic, biodiversity, and ecosystem integrity studies. Prerequisite: consent of instructor. (4).

449. TROPICAL INVERTEBRATE BIOLOGY. Field surveys of the insects and arachnids of the neotropics with emphasis on behavior and ecology of major groups. Prerequisite: consent of instructor. (4).

450. TROPICAL ORNITHOLOGY. Field surveys of tropical birds with discussions of behavior and ecology of birds. Prerequisite: consent of instructor. (4).

BOTANY See the *Department of Biology*.

BUSINESS—BUS

Instructors Coleman, Connell, Garrett, Jordan, Oakley, Pegram, Ross, and Tyner

230. ECONOMIC STATISTICS I. Statistical decision-making, parameters, probability, sampling, inference and testing, comparative experiments, linear correlation, and time series analysis. Prerequisite: C minimum in MATH 267 or MATH 261 and C minimum in MIS 241. (Same as ECON 230). (3).

250. LEGAL ENVIRONMENT OF BUSINESS. The legal environment of business and organizations with emphasis on current social, political, and ethical forces influencing the law of business, particularly business contracts and agency relationships. (2).

271. BUSINESS COMMUNICATION. An oral and written applications-oriented communication course for managers; developing and writing of reports, oral briefings of business issues, and multimedia presentations. Prerequisites: ENGL 101, 102. Corequisite: MIS 241. (3).

301. INTRODUCTION TO PETROLEUM LAND MANAGEMENT. Petroleum industry overview; formation, migration and accumulation of reserves; land acquisition process and management. (3).

302. ECONOMIC STATISTICS II. Sampling, parametric and nonparametric testing, multiple regression and correlation, experimental design, Bayesian statistics. Prerequisite: C minimum in BUS 230. (Same as ECON 302). (3).

308. OPERATIONS RESEARCH. Prerequisite: BUS 230. (Same as ECON 308). (3).

310. OIL AND GAS LAW. Basics of oil and gas production, mineral interests and ownership, rights and obligations under oil and gas leases, royalty calculations, oil and gas conservation practices, severance and special profit taxes, environmental controls. (3).

311. FUNDAMENTALS OF OIL AND GAS LEASING. Examination of common oil and gas leases, maintaining leases, title searches and title curatives, operating and farm-out agreements, lease brokering, top leasing, ethical problems, offshore leasing. (3).

321. INTERNATIONAL BUSINESS. An integrated, multifunctional survey course defining the basic terminology of international business, with emphasis on an introduction to how national differences affect the business functions. Prerequisite: junior standing. (3).

380. TOPICS IN BUSINESS ABROAD. The study of business topics across national and cultural boundaries. Students examine the nature and framework of international business transactions as well as the impact of social and cultural factors in international business. May be repeated with permission of the dean (1-6).

390. BUSINESS CAREER PLANNING. Assists business students in making the transition from the academic community to the work environment. Students will be provided with career and self-assessment information from which they can make independent decisions on future career directions. Required for graduation as a business major. (0). (No grade).

400. SPECIAL TOPICS IN BUSINESS. A seminar for special topics in business, either for discussion or for individual research projects. Senior standing only. (1-6).

500. BUSINESS INTERNSHIP. Internship open to business students of junior or senior standing or to MBA students. A business field experience of at least 10 weeks of full-time employment is required. MBA students may not use this course to satisfy either a core or elective requirement. (May be repeated once). (3). (Z grade).

CHEMICAL ENGINEERING—CH E

Professor Peter C. Sukanek, chair • 134 Anderson Hall

Professors Chen and Sadana • Associate Professors O'Haver and Williford • Assistant Professor Scovazzo

103. INTRODUCTION TO CHEMICAL ENGINEERING I. Careers in engineering; basic computer skills; simple graphical analysis; units and conversions. (1).

104. INTRODUCTION TO CHEMICAL ENGINEERING II. Introductory concepts in engineering statistics, ethics, and economics. (1).

307. CHEMICAL PROCESS PRINCIPLES I. Steady state material balances; stoichiometry; equations of state; solid-liquid phase equilibrium. Prerequisites: CHEM 105, MATH 261 (2).

308. CHEMICAL PROCESS PRINCIPLES II. Steady state energy balances; introduction to process simulation. Prerequisites: CHE 307, MATH 262. (2).

309. INTRODUCTION TO CHEMICAL ENGINEERING DESIGN. Project work in chemical engineering design. (2).

313. MODELING AND SIMULATION I. Applications of analytical, numerical, and statistical techniques in the design and modeling of chemical process systems. Prerequisite: MATH 353. (3).

314. MODELING AND SIMULATION II. Continuation of CH E 313, which is a prerequisite. (3).

317. PROCESS FLUID DYNAMICS & HEAT TRANSFER. Macroscopic momentum balances, piping system design; drag coefficients, fluidization; macroscopic energy balances, heat transfer coefficients, heat exchanger design, evaporation. Prerequisite: ENGR 322. (4).

345. ENGINEERING ECONOMY. Time value of money, depreciation, cost estimation, return of investment; risk and selecting alternatives. (2).

407, 408. CHEMICAL ENGINEERING PROJECTS I, II. Specific topic investigated by each student; report due at the end of each semester. (1-3, 1-3).

411. CHEMICAL ENGINEERING SEMINAR. Oral presentation of engineering results. Prerequisite: senior standing. (1).

417. SEPARATION PROCESSES. Equilibrium-stage and mass transfer processes; distillation, adsorption, extraction, membrane separations. Prerequisites: CHE 317, CHE 421. (4).

421. CHEMICAL ENGINEERING THERMODYNAMICS. Property estimation; phase and chemical equilibria of multicomponent systems. Prerequisites: ENGR 321, MATH 264. (3).

- 423. CHEMICAL REACTOR ANALYSIS AND DESIGN.** Reaction mechanisms, rate expressions; reactor design. Prerequisites: CHE 308, ENGR 322. (3).
- 445. CHEMICAL ENGINEERING LAB I.** Design, performance, and reporting of experiments. Corequisite: CHE 317. (2).
- 446. CHEMICAL ENGINEERING LAB II.** Use of pilot plant data to design industrial-scale units. Corequisite: CHE 417. (2).
- 451. PLANT DESIGN I.** Design of chemical processes and plants. Prerequisites: CHE 317, CHE 421. (3).
- 452. PLANT DESIGN II.** Continuation of CHE 451. In order to pass this course, students must have taken the Fundamentals of Engineering (FE) exam prior to the end of the semester. Prerequisites: CHE 417, CHE 451. (3).
- 511. PROCESS DYNAMICS AND CONTROL.** Modeling of transient systems; design of feedback control systems. Prerequisite: MATH 353. (3).
- 513. SPECIAL TOPICS IN CHEMICAL ENGINEERING.** (May be repeated for credit). (1-3).
- 515. RESEARCH SEMINAR.** Philosophy and principles of engineering research. May not be used to satisfy requirements for a BS degree in chemical engineering. (1). (Z grade).
- 520. BIOCHEMICAL ENGINEERING.** An overview of microbiology and biochemistry. The development of models for microbial kinetics. The design of reactors and auxiliary equipment for microbial systems. (3).
- 530. COAL UTILIZATION AND POLLUTANTS CONTROL.** The structure, properties, reactivities, and utilization and conversion technologies of coal. Emphasis will be placed on combustion and its environmental issues. (3).
- 541, 542. ENGINEERING APPLICATIONS OF CHEMICAL INSTRUMENTATION I, II.** Theory, use, and limitations of spectroscopic and chromatographic methods of sample analysis. (3,3).
- 545. COLLOID AND SURFACE SCIENCE.** Fundamental concepts of colloid and surface science. (3).
- 560, 561. ADVANCED TRANSPORT PHENOMENA I, II.** Development and use of the equations of conservation of mass, energy, and momentum in continuous materials. Prerequisites: ENGR 310, ENGR 322. (3, 3).

CHEMISTRY AND BIOCHEMISTRY—CHEM

Professor Charles L. Hussey, chair • 322 Coulter Hall

Professors Eftink, Mattern, and Parcher • Associate Professors Cleland, Davis, Mossing, and W. Scott • Assistant Professors Antilla, Ellison, Godfrey, Pedigo, Ritchie, Tschumper, and Wadkins • Instructors K. Scott, O'Neal, and Wiginton

- 101. CHEMICAL CONCEPTS.** For those requiring a less detailed introduction to chemistry. When taken in conjunction with CHEM 102, satisfies science requirements of the core curriculum. (3). May not be used for major or minor credit.
- 102. CHEMICAL CONCEPTS LABORATORY¹.** Corequisite: CHEM 101. (1).
- 103, 104. SURVEY OF CHEMISTRY I, II.** Overview of chemistry for the nonmajor. CHEM 103 is a prerequisite for CHEM 104. When taken in conjunction with CHEM 113, 114, satisfies science requirements of the core curriculum. (3, 3). May not be used for major or minor credit.
- 105, 106. GENERAL CHEMISTRY I, II.** Lecture part of the standard basic course for a major or minor program in chemistry. Prerequisite: minimum ACT mathematics score of 22 (SAT 510) or B minimum in MATH 121 or 125. CHEM 105 is a prerequisite for CHEM 106. (3, 3).
- 105H, 106H. HONORS GENERAL CHEMISTRY I, II.** Lecture part of the standard basic course for a major or minor program in chemistry. Reserved for honors students. Must be taken concurrently with CHEM 107H, 108H. CHEM 105H is a prerequisite for CHEM 106H. (3, 3).
- 107H, 108H. HONORS RECITATION I, II.** Amplification of the principles covered in CHEM 105H, 106H. Must be taken concurrently with CHEM 105H, 106H. (1, 1).
- 113, 114. SURVEY OF CHEMISTRY LABORATORY I, II¹.** Corequisite: CHEM 103, 104. (3 lab hours). (1, 1).
- 115, 116. GENERAL CHEMISTRY LABORATORY I, II¹.** Corequisite: CHEM 105, 106, (1, 1).

- 121. FUNDAMENTALS OF ORGANIC CHEMISTRY.** For those requiring a less detailed study of organic chemistry. Prerequisites: CHEM 101, 102 or 106, 116. (3 lecture, 3 lab hours). (4). May not be used for major or minor credit.
- 201. ENVIRONMENTAL CHEMISTRY I.** Agricultural chemicals, water pollution, essential foods, processed foods, food additives, drugs. Not open to students who have taken first-year chemistry. Not applicable to a major or minor in chemistry. Not acceptable for certification in chemistry of secondary school teachers. When taken in conjunction with CHEM 113, satisfies science requirements of the core curriculum. (3). May not be used for major or minor credit.
- 202. ENVIRONMENTAL CHEMISTRY II.** Population growth, nondegradable waste, mineral and energy sources, aerosols, air pollution, consumer chemicals. Not open to students who have taken first-year chemistry. Not applicable to a major or minor in chemistry. Not acceptable for certification in chemistry of secondary school teachers. When taken in conjunction with CHEM 114, satisfies science requirements of the core curriculum. CHEM 201 is not a prerequisite for CHEM 202. (3). May not be used for major or minor credit.
- 221, 222. ELEMENTARY ORGANIC CHEMISTRY I, II.** Structures and spectroscopy of organic compounds; organic reactions and their mechanisms. Prerequisite: CHEM 106. CHEM 221 is a prerequisite for CHEM 222. (3, 3).
- 225, 226. ELEMENTARY ORGANIC CHEMISTRY LABORATORY I, II¹.** Investigation of organic functional groups; preparation and purification techniques. Prerequisite: CHEM 116. Corequisite: CHEM 221, 222. (1, 1).
- 314. QUANTITATIVE ANALYSIS.** Introduction to the theory and practice of chemical analysis, including acid-base, oxidation-reduction, and precipitation titrations; spectrophotometry; ion-selective electrodes; and chromatography. Prerequisite: CHEM 222. (2 lecture, 6 lab hours). (4).
- 331, 332. PHYSICAL CHEMISTRY I, II.** Professional course. Quantum chemistry and molecular orbital theory, thermodynamics and statistical mechanics, kinetics and reaction dynamics, spectroscopy. Prerequisites: CHEM 222, PHYS 212 or 214; MATH 264. (3, 3).
- 334. BIOPHYSICAL CHEMISTRY.** Introduction to physical and chemical principles applied to biological and life sciences. Prerequisites: CHEM 222 and MATH 262. (3).
- 337, 338. PHYSICAL CHEMISTRY LABORATORY I, III.** Corequisite: CHEM 331, 332. (1, 1).
- 351. INDIVIDUAL RESEARCH.** Research project conducted by the student under faculty supervision. May be repeated for credit. Prerequisites: CHEM 222, 226, and departmental approval. The IP grade may be given in this course when the student will be continuing the project in a subsequent semester. (1-3).
- 371. BIOCHEMICAL CONCEPTS.** Prerequisite: CHEM 121 or 221 or 321. (3). May not be used for major or minor credit.
- 381, 382, 383. CHEMISTRY FOR TEACHERS I, II, III.** Analysis of the concepts and models of chemistry with emphasis on computational skills for school teachers. Appropriate for persons seeking certification as chemistry or science teachers. May not be counted toward a degree in any of the sciences. (3 lecture, 2 lab hours each). (4, 4, 4).
- 401. INORGANIC CHEMICAL PRINCIPLES.** Application of physical chemical principles to the study of inorganic systems. Prerequisite: CHEM 331. (3).
- 402. INORGANIC CHEMISTRY LABORATORY.¹** Synthesis, identification, and study of physical and chemical properties of selected inorganic compounds. Corequisite: CHEM 401. (1).
- 415. COMPUTER METHODS IN CHEMISTRY.** Interfacing of computers to chemical instrumentation; data collection and analysis using computer methods. Prerequisite: CHEM 222 (3).
- 421H, 422H. RECITATION IN ORGANIC CHEMISTRY I, II.** Expansion of material from elementary courses and transmission of basic concepts to elementary students. Prerequisite: CHEM 222 (3).
- 423. ORGANIC ANALYSIS.** Expanded organic chemistry topics. Development of separation, purification, and identification skills in a problem-solving context. Prerequisites: CHEM 222, 226 (1 lecture, 3 lab hours). (2).
- 459. FORENSIC SCIENCE INTERNSHIP.** (3). (Z grade).
- 463. SENIOR RESEARCH.** Research project conducted by the student under faculty supervision. Written report and either poster presentation or oral seminar presentation required. May be repeated once for credit. Prerequisites: CHEM 222, 226; 314; departmental approval. The IP grade may be given for the first semester of this course. (1-3).
- 469. INTRODUCTION TO INSTRUMENTAL ANALYSIS.** Introduction to modern analytical instrumentation including chromatography (GL and HPLC), spectroscopy (atomic absorption, infrared, UV-visible, NMR, and fluorescence), and mass spectrometry. Applications of computer methods for data acquisition. Prerequisite: CHEM 314. (2 lecture, 6 lab hours). (4).

471, 473. BIOCHEMISTRY I, II. Chemistry of biological macromolecules and their control of life processes. Prerequisites: CHEM 222, 226. (3, 3).

472. BIOCHEMISTRY LABORATORY. Introduction to modern analytical techniques used for the separation and characterization of the biochemical macromolecules. Corequisite: CHEM 471. (6 lab hours). (2).

Chemistry 222, 226, and 331 are prerequisite to all 500-level courses except 543, 546, and 547.

501. ADVANCED INORGANIC CHEMISTRY. Atomic and molecular structure; chemical bonds; solvent systems; reactions of the elements and their compounds. (3).

512. ADVANCED INSTRUMENTAL ANALYSIS. Theoretical and experimental treatment of chromatography, Fourier-transform NMR, mass spectrometry, and electrical techniques. Prerequisite: CHEM 469. (2 lecture, 3 lab hours). (3).

519. CHEMICAL SEPARATIONS. Theoretical and mathematical treatment of chromatography and other separation techniques. Prerequisite: CHEM 469. (3).

527. ADVANCED ORGANIC CHEMISTRY, STRUCTURE AND MECHANISM. Resonance and molecular orbital theory, linear free energy relations, and reaction mechanisms. (3).

528. ADVANCED ORGANIC CHEMISTRY, MECHANISM AND SYNTHESIS. Conformational analysis, electron-deficient rearrangements, carbanion chemistry, photochemistry, synthetic reactions. (3).

529. STEREOCHEMISTRY. Configurational and conformational analysis of molecules; the steric course of organic chemical reactions. (3).

530. ADVANCED ORGANIC SYNTHESIS. A study of the literature, reactions, and planning methods which are used in modern organic synthesis. (3).

531. ADVANCED PHYSICAL CHEMISTRY, QUANTUM CHEMISTRY. Elementary quantum chemistry; solution of the Schrodinger equation for simple chemical systems; molecular orbital theory. (3).

532. ADVANCED PHYSICAL CHEMISTRY, CHEMICAL THERMODYNAMICS. Rigorous discussion of irreversible and equilibrium thermodynamics and application to various chemical problems. (3).

544. CHEMICAL APPLICATIONS OF GROUP THEORY. Introduction to the principles of symmetry and group theory and their application to the description of molecular structure in terms of the chemical bonding models (VB, MO, and LF) and spectral properties (magnetic, vibrational, and electronic). (3).

545. CHEMICAL LITERATURE. Introduction to and practice in the use of chemical abstracts, journals, and other library reference materials. (3). (Z grade).

546, 547. CHEMISTRY FOR HIGH SCHOOL SCIENCE TEACHERS I, II. A review of the basic principles of chemistry and an overview of the new technology, instructional materials, and methods used for teaching chemistry at the high school level. Appropriate for high school teachers seeking certificate renewal or supplemental endorsement. Prerequisite: CHEM 106. (May not be counted toward a degree in the sciences. May be repeated once for credit.) (3, 3).

548. WORKSHOP FOR MIDDLE SCHOOL SCIENCE TEACHERS. Selection and application of instructional materials and methods for secondary school chemistry. (May not be counted toward an advanced degree in any of the sciences.) (1-2).

550. SAFETY IN THE CHEMICAL LABORATORY. Assigned readings and demonstrations on the use and handling of hazardous chemicals and chemical apparatus. (3). (Z grade).

563. APPLIED SPECTROSCOPY. Application of theoretical principles to the interpretation of the various types of spectroscopy. Prerequisite: CHEM 469. (2 lecture, 3 lab hours). (3).

571. PHYSICAL BIOCHEMISTRY. Macromolecules: structure and function; thermodynamics and kinetics of conformational transitions and macromolecule-ligand interactions. Prerequisite: CHEM 471 or 575 or consent of instructor. (3).

580, 581. MOLECULAR BIOCHEMISTRY I, II. Examination of the organization and functional mechanisms of gene expression at the molecular level. Prerequisite: CHEM 473 or 572. (3, 3).

¹ Students who withdraw from the lecture must withdraw from the laboratory.

CIVIL ENGINEERING—C E

Professor Alexander H.-D. Cheng, chair • 203 Carrier Hall • Professor Prasad • Associate Professors Jao, Mullen, and Uddin • Assistant Professors Al-Ostaz, Fox, and Song

101. INTRODUCTION TO CIVIL ENGINEERING I. Introduction to civil engineering disciplines: structural, geotechnical, transportation, environmental, and water resources engineering. Basic computer skills: e-mail, Internet. Basic computing skill: spreadsheet. (1).

102. INTRODUCTION TO CIVIL ENGINEERING II. Engineering ethics, technical writing, communication skills, success as civil engineer, solving civil engineering problems, field trip, Web authoring. (1).

207. SURVEYING. Traversing and computations, area calculations, topographic surveys, leveling, boundary surveys, circular and parabolic curves, volumes, photogrammetry, electronic distance measurement, computer applications. Corequisite: ENGR 207. (2 lectures, 2 lab hours). (2).

307. CIVIL ENGINEERING LABORATORY I. Selected experiments in soils and materials. Tests of identification and characterization of soils. Strength tests on other materials commonly used in civil engineering practice. Corequisite: CE 431. (1).

315. CIVIL ENGINEERING MATERIALS. Fundamental concepts of materials science including the structure and properties of materials and their relationship to material selection and system design; classification of materials; properties and behavior of construction materials including soils and aggregates, cement, concrete, metals, wood, asphalt, composites, and other new materials; mix design procedures and properties of Portland cement concrete and bituminous/asphalt mixtures; quality control and quality assurance. (3).

325. DYNAMICS. Rigid body dynamics, vibrations, Lagrangian formulations; application to civil engineering problems. Prerequisite: ENGR 309. (3).

401. PROFESSIONALISM AND LEADERSHIP IN CIVIL ENGINEERING. Philosophy, methodology, influence, and ideals associated with the practice of civil engineering; ethics, history, communication, technical and professional societies, registration, creativity, leadership, service, lifelong learning, and responsibility for the protection of occupational and public health. Prerequisite: senior standing or consent of instructor. (1).

407. CIVIL ENGINEERING LABORATORY II. Experiments in structural and hydraulic systems; hands-on experience in experimental design, transducer selection and calibration, and use of sophisticated data acquisition equipment and post-processing software; evaluation, synthesis, and graphical presentation of results and report preparation. Prerequisite: CE 307. (1).

411. STRUCTURAL ANALYSIS. Classification and analysis of simple structural systems; ASCE-7 provisions for minimum loads; virtual work and virtual displacement methods; introduction to flexibility and displacement matrix methods; stiffness matrices for rod, frame, and slab elements; computational tools. Prerequisite: ENGR 312. (Same as ME 421). (3).

412. STRUCTURAL DESIGN I. Design of steel and concrete structural members according to ACI and AISC LRFD specifications; reinforced concrete and rolled steel sections subject to axial force, flexure, shear, torsion, and combined loading; fatigue and fracture; introduction to connections. (Same as ME 422). Corequisite: CE 411. (3).

413. STRUCTURAL DESIGN II. Advanced topics in structural design; steel-concrete composite, wood, masonry and FRP sections; nonlinear material and section response; performance-based design; lateral load resisting systems; beam-column joints; seismic design. Prerequisite: CE 412 or consent of instructor. (3).

417. CONSTRUCTION ENGINEERING AND MANAGEMENT. Planning, estimating, and scheduling of civil engineering construction projects involving buildings, roads, bridges, earthwork, airports, hydraulic structures, and other infrastructure assets; procurement, specifications, bids, and contracts; cost control; value engineering; quality control and quality assurance; computer applications. (3).

431. SOIL MECHANICS I. Testing and identification of soils, saturated flow through earth structures, stress distribution in soils, consolidation, and settlement; shear strength of soils; earth pressure, slope stability, and shallow foundation problems. Prerequisite: ENGR 312. (3).

433. FOUNDATION ENGINEERING. Soil investigation and bearing capacity. Factors to consider in foundation design, spread-footing design, combined footing design, mat foundations, retaining wall design, sheet-pile wall design, single pile foundation, and pile group foundation design. Caissons and cofferdams. Prerequisite: CE 431. (3).

- 442. APPLIED FLUID MECHANICS.** Hydrostatics, dimensional analysis and modeling, flow in pipes and open channels. Design of pipe systems, hydraulic structures, and open channel systems. Prerequisite: ENGR 322. (Same as ME 404). (3).
- 452. CIVIL ENGINEERING ANALYSIS.** Development and analysis of conceptual models of contemporary civil engineering; applications in structures, geotechniques, hydraulics, hydrology, transportation, and environmental engineering. Prerequisites: CE 311, 431, ENGR 310. (3).
- 455. CIVIL ENGINEERING DESIGN I.** Initial course in capstone design sequence. Preliminary site and facility design, major building code provisions for access, egress, and structural safety; creativity in the design process and defining competing alternatives; computational tools. Prerequisite: senior standing. (2).
- 456. CIVIL ENGINEERING DESIGN II.** Final course in capstone design sequence. Group design of a significant civil engineering project, including data collection, quantitative analysis of cost and schedule, structural design to meet major building codes, and qualitative evaluation of aesthetics, ethics, politics, and environmental impact. Formal presentation of projects to a jury of practicing professionals and a formal report. The Fundamentals of Engineering (FE) examination must be taken prior to graduation. Prerequisite: CE 455 or consent of instructor. (3).
- 471. ENVIRONMENTAL ENGINEERING.** An introduction to areas of environmental engineering including hydrology, water and wastewater treatment, water quality management, air pollution, solid and hazardous waste, noise pollution, radiation, and environmental impact studies. Prerequisite: ENGR 322. (3).
- 472. ENVIRONMENTAL WATER RESOURCES.** Surface water hydrology, evaporation, run-off models, routing models, open channel hydraulics, water supply systems, advective and dispersive pollutant transport, water quality in lakes and streams, groundwater flow and contamination. Prerequisite: CE 442. (3).
- 481. TRANSPORTATION ENGINEERING I.** Major transportation modes and their characteristics; mechanics of motion; geometric and intersection design; traffic flow theory; probabilistic methods; capacity analysis; planning models; environmental impact analysis; economic evaluation; Intelligent Transportation System (ITS) and computer applications. Corequisite: ENGR 310. (3).
- 497. CIVIL ENGINEERING PROJECTS.** Special problems or independent study in civil engineering research and design. Prerequisite: senior standing or consent of instructor. (3).
- 511. STRUCTURAL ANALYSIS II.** Advanced topics in structural analysis; matrix methods and finite element modeling; structural instability; structural dynamics; system identification and health monitoring algorithms; computational simulation and visualization. Prerequisite: CE 411 or consent of instructor. (3).
- 514. DESIGN OF PRE-STRESSED CONCRETE STRUCTURES.** Pre- and post-tensioning technologies; material properties; response to and design for axial load, flexure, shear, and torsion; application to buildings and bridges. Corequisite: CE 412. (3).
- 521. ADVANCED MECHANICS OF MATERIALS.** Classical methods for second-order analysis of deformable bodies; failure criteria; torsion of thin walled sections; unsymmetrical bending of straight beams; curved beams; beam on elastic foundation; plates and shells; buckling. Prerequisites: ENGR 310, 312. (3).
- 531. SOIL MECHANICS II.** Soil variability, strength, and deformation; flow of water through soil; settlement calculation; stability problems including earth pressure; retaining structures; slope stability; bearing capacity of shallow and deep foundations. Computer applications. Prerequisite: CE 431. (3).
- 541. FLOW IN OPEN CHANNELS.** Uniform and nonuniform flow; gradually varying flow, rapidly varying flow controls; subcritical and supercritical transitions; unsteady flow; level-pool routing; flood waves. Prerequisite: CE 442. (3).
- 542. FLOW IN POROUS MEDIA.** Steady, homogeneous flow; prediction of transport properties; wells, seepage, drainage, re-charge; nonhomogeneous flow. Prerequisite: CE 442. (3).
- 543. SEDIMENT TRANSPORT.** Fall velocity, particle size analysis, incipient motion, bed form mechanics, suspended loads; stream flows, natural river processes; transport of liquid-solid mixtures in pipelines. Prerequisite: CE 442. (3).
- 561. CIVIL ENGINEERING SYSTEMS.** Engineering applications of linear programming, dynamic programming, PERT-CPM, game theory; stochastic systems. Prerequisite: MATH 264. (3).

570. INFRASTRUCTURE MANAGEMENT. Overview of nation's infrastructure assets and rehabilitation/renovation needs; methodologies for development and implementation of performance monitoring and maintenance management systems for roadways, bridge structures, airports, and other infrastructure facilities; condition assessment and nondestructive evaluation; application of new materials and remote sensing and spatial technologies; Intelligent Transportation System (ITS) and computer applications for infrastructure asset management. Prerequisite: senior standing or consent of instructor. (3).

581. TRANSPORTATION ENGINEERING II. Advanced topics in transportation engineering and management with emphasis on intermodal facilities; physical design and traffic management; measures of system effectiveness and performance; environmental and social impacts; Intelligent Transportation System (ITS) technologies; applications of remote sensing and spatial technologies and GIS; economic evaluation of alternatives; computer modeling and simulation. Prerequisite: CE 481 or consent of instructor. (3).

585. HIGHWAY PAVEMENTS. Stress analysis of pavements, traffic estimation, material characterization, condition monitoring and evaluation, current design schemes, computer applications. Corequisite: CE 431. (3).

590. AIRPORT PLANNING AND DESIGN. Impacts of national transportation policies with emphasis on ground, aviation, and intermodal facilities; financing resources; collection and use of traffic and passenger data for airport planning and design; travel demand forecasting; capacity analysis; visual aids and air traffic control; runway orientation and geometric design; design of terminal areas and ground access; basic pavement structural design and maintenance management; environmental impacts and economic assessment; airport applications of remote sensing and spatial technologies; GIS, and Intelligent Transportation System (ITS) technologies. Prerequisite: senior standing or consent of instructor. (3).

CLASSICS

Associate Professor Aileen Ajootian, acting chair • 302 Sally McDonnell Barksdale Honors College

Associate Professor Ajootian • Assistant Professors Fenno, Gutting, and Lobur

Classics–CLAS

201. SCIENTIFIC AND MEDICAL TERMINOLOGY FROM GREEK AND LATIN. Vocabularies of the sciences and medicine derived from words, roots, and forms of Greek and Latin; designed to ease the acquisition, understanding and use of these terms. No previous knowledge of Greek or Latin required. (3).

Greek–GR

101, 102. INTRODUCTION TO GREEK I, II. Principles of grammar, training in translation. (3, 3).

201, 202. INTERMEDIATE GREEK I, II. Continuation of Greek grammar; readings in selected prose, including the New Testament. (3, 3).

303. GREEK NEW TESTAMENT I. Readings in the Greek New Testament. (3).

304. GREEK NEW TESTAMENT II. Reading of portions of the Acts of the Apostles and the Pauline Epistles. (3).

305. HOMER. Readings in the Iliad or Odyssey. (3).

306. LYRIC AND EARLY PROSE. Selections from the lyric poets and pre-Socratic philosophers. (3).

307. GREEK HISTORIANS. Selected readings in Greek of major historians such as Herodotus, Thucydides, and Xenophon. Prerequisites: GR 101, 102, 201, 202. (3).

308. GREEK TRAGEDY. Selected readings from the works of Aeschylus, Sophocles, and Euripides. Prerequisites: GR 101, 102, 201, 202. (3).

309. GREEK COMEDY. Selected readings from the works of Aristophanes. Prerequisites: GR 101, 102, 201, 202. (3).

310. GREEK RHETORIC. Selected readings from the works of Demosthenes, Lysias, Aeschines, or other Attic orators. Prerequisites: GR 101, 102, 201, 202. (3).

311. PLATO. Selected readings in the works of Plato in Greek. Prerequisites: GR 101, 102, 201, 202. (3).

407, 408. ATTIC DRAMA I, II. Tragedy and Aristophanes. (3, 3).

503. NEW TESTAMENT. Extensive passages of selected books of the New Testament; consideration of recent trends in New Testament scholarship. (3).

507. SPECIAL READING. Extensive reading of authors not included in specific courses above, arranged according to needs of individual student. (May be repeated for additional reading and credit). (1-3).

Latin–LAT

101, 102. INTRODUCTION TO LATIN I, II. Essentials of grammar, training in translation. (3, 3).

201, 202. INTERMEDIATE LATIN I, II. Continuation of grammar and selections from representative authors. (3, 3).

301. ROMAN COMEDY. Selected readings from the plays of Plautus or Terence. Prerequisites: LAT 101, 102, 201, 202. (3).

302. ROMAN SATIRE. Selected readings from the satires of Horace, Juvenal, Persius, or Martial. Prerequisites: LAT 101, 102, 201, 202. (3).

303. LUCRETIUS. Selected readings in the philosopher Lucretius' *De Rerum Natura* (On the Nature of the Universe). Prerequisites: LAT 101, 102, 201, 202. (3).

304. CICERO AND CAESAR. Selected readings in the works of Julius Caesar and Marcus Tullius Cicero. Prerequisites: LAT 101, 102, 201, 202. (3).

305. ROMAN PROSE AND POETRY I. Selected readings. (3).

306. ROMAN PROSE AND POETRY II. Selected readings. (3).

401. ROMAN HISTORIANS. Selected readings in major Roman historians such as Livy, Sallust, and Tacitus. (3).

402. VERGIL. Selections. (3).

507. SPECIAL READING. Extensive reading of authors not included in specific courses above, arranged according to needs of individual students. (May be repeated for additional reading and credit). (1-3).

Classical Civilization–CLC

101. INTRODUCTION TO GREEK CIVILIZATION. An introductory survey course in the art, architecture, history, government, literature, and thought of ancient Greece. (3).

102. INTRODUCTION TO ROMAN CIVILIZATION. An introductory survey course in the art, architecture, history, government, literature, and thought of ancient Rome. (3).

103. WOMEN IN ANTIQUITY. An introduction to the history and culture of ancient Greece and Rome through a consideration of the role and status of women in the classical world. Lectures with slides will be supplemented by readings of ancient texts in translation, in addition to textbook assignments. (Same as W ST 103). (3)

104. SPORTS IN THE ANCIENT WORLD. An introduction to the history and culture of ancient Greece and Rome through the consideration of sports in the classical world. Lectures with slides will be supplemented by readings of ancient texts in translation and textbook assignments. (Same as ES 104). (3).

105. FROM MYTH TO FILM. Selected readings in ancient Greek and Roman literature in translation, their survival and legacy in film. (3).

106. CLASSICAL MYTHOLOGY. Introduction to the myths of the Greeks and Romans through ancient literature in translation and art. (3).

304. GREEK AND ROMAN COMEDY. Reading in English translation of the works of authors such as Aristophanes, Menander, Plautus, and Terence. (Same as ENGL 304). (3).

310. SOCRATES AND SOPHISTRY. The intellectual ferment surrounding the development of philosophy in fifth-century Athens; its origins and consequences in literature and politics. Readings focus on Socrates: drama, early philosophical texts, the Sophists and Plato. (Same as PHIL 310). (3).

326. TOPICS IN CLASSICS ABROAD. Students do approved course work at a foreign university. May be repeated with the permission of the chair of the Department of Classics. (1-6).

331. SCIENCE AND TECHNOLOGY IN THE ANCIENT WORLD. Examples of the change from mythic to rational thought and of the use of planning and technology in Greece, Rome, and other ancient cultures. (3).

333. POETRY AND POLITICS AT ROME. The relationship between politics and literature in ancient Rome, focused on works of central importance in the history of Latin literature. Readings to include drama, lyric, elegy, and satire as well as Vergil's Aeneid in English. (Same as ENGL 333). (3).

511. INTRODUCTION TO CLASSICAL SCHOLARSHIP. An introduction to the methodology used in classical scholarship. Information about research tools, the history of classical scholarship, textual transmission, paleography, papyrology, epigraphy, numismatics, linguistics, and art and archaeology. (3).

Art and Archaeology

283. HISTORY OF ART: ANCIENT THROUGH MEDIEVAL. A survey of the great originative styles and developments in painting, sculpture, and architecture of the Mediterranean world from Paleolithic period through Gothic Europe. (Same as ARHI 283). (3).

318. GREEK VASE PAINTING. Designed for undergraduates with an interest in the classical world, the course will cover prehistoric through Hellenistic Greek vase painting, utilizing the Robinson Collection at the University Museums. (Same as ARHI 318). (3).

319. GREEK SCULPTURE. Designed for undergraduates with an interest in the ancient world, the course will cover archaic through Hellenistic Greek sculpture. (Same as ARHI 319). (3).

320. GREEK ARCHITECTURE. An introduction to the principles of ancient architecture through a study of monuments and sites in Greece and Asia Minor. (Same as ARHI 320). (3).

321. GREEK ART AND ARCHAEOLOGY. Development of painting, sculpture, and architecture in the Greek world from the late Bronze Age to Hellenistic times. (Same as ARHI 321). (3).

322. ROMAN ART AND ARCHAEOLOGY. Roman architecture, sculpture, and painting. (Same as ARHI 322). (3).

323. BRONZE AGE GREEK AND AEGEAN ART AND ARCHITECTURE. Offered every third year in sequence with 324 and 325. (Same as ARHI 323). (3).

324. EGYPTIAN ART AND ARCHITECTURE. Offered every third year in sequence with CLC 323 and 325. (Same as ARHI 324). (3).

325. ETRUSCAN ART AND ARCHITECTURE. Offered every third year in sequence with CLC 323 and 324. (Same as ARHI 325). (3).

373. CULTURES OF THE BRONZE AGE. (3).

523. ANCIENT ART. Specific topics within the field of ancient art. Content varies. (May be repeated for credit). (Same as ARHI 581). (3).

History

311. GREEK HISTORY. The history of the Greek world from the earliest times to 146 B.C.; influence of Greek institutions on modern civilization. (Same as HIS 350). (3).

313. THE ROMAN REPUBLIC. A survey course in the history of the Roman Republic from the founding of the city in 753 B.C. to the end of the Second Triumvirate in 31 B.C. (Same as HIS 352). (3).

314. THE ROMAN EMPIRE. A survey course in the history of the Roman Empire from the reign of Augustus beginning in 31 B.C. through the fall of the Western Roman Empire in 476 A.D. (Same as HIS 353). (3).

340. THE GOLDEN AGE OF ATHENS. A detailed examination of the history and culture of Athens in the fifth century B.C. centering on the life of Pericles. The course will begin with the birth of democracy under Cleisthenes and end with the death of Socrates. (Same as HIS 348). (3).

341. ALEXANDER THE GREAT. An examination of the rise of Macedonia under Philip, the accession of Alexander and Alexander's conquest of the Persian Empire. Topics discussed include Macedonia's domination of Greece, Greek opposition, the destruction of Olynthus and modern interpretations of Philip and Alexander. (Same as HIS 349). (3).

501. TOPICS IN GREEK HISTORY. (May be repeated once for credit). (3).

502. TOPICS IN ROMAN HISTORY. (May be repeated once for credit). (3).

Literature and Thought

303. GREEK AND ROMAN TRAGEDY. Reading in English translation of the works of authors such as Aeschylus, Sophocles, Euripides, and Seneca. (Same as ENGL 303). (3).

305. TOPICS IN CLASSICAL MYTHOLOGY. Intensive study of a particular figure or topic in Greek and Roman mythology. (Same as ENGL 305). (3).

307. GREEK LITERATURE IN ENGLISH TRANSLATION. Reading in English translation of selected masterpieces of Greek literature; origin and development of epic and lyric poetry, the drama, history, and philosophy. (Same as ENGL 307). (3).

308. SURVEY OF ROMAN LITERATURE. Reading in English translation of important works in the literature of Rome; Roman contributions to the development of European and English literature. (3).

COMMUNICATIVE DISORDERS—CD

Associate Professor Carolyn Wiles Higdon, interim chair • 303 George Hall

Professor Kellum • Assistant Professor Miller • Acting Assistant Professor Ivy •
Instructors Coker, Henton, Liles-Ellard, Lowe, and Randle

201. INTRODUCTION TO COMMUNICATIVE DISORDERS. Disorders of speech, language, and audition; emphasis on recognition, causation, and principles of management. (3).

205. ANATOMY AND PHYSIOLOGY OF THE SPEECH AND HEARING MECHANISMS. Anatomical and physiological bases of speech, language, and auditory processes. (3 lecture). (Same as LING 205). (3).

211. INTRODUCTION TO PHONOLOGY. The study of speech sounds—their theoretical units of meaning (phonemics), production (articulatory phonetics), perception (perceptual phonetics), and physical characteristics (acoustic phonetics). Emphasis on the International Phonetic Alphabet and transcription of spoken language. (Same as LING 211). (3).

216. NORMAL DEVELOPMENT OF COMMUNICATION. Paralinguistic and psycholinguistic aspects of human development; study of developmental assessment. (Same as LING 216). (3).

301. DISORDERS OF ARTICULATION. Causes, correlates, symptoms, assessment, and clinical management; survey of related disorders. Prerequisites: CD 205, 211. (3).

316. LANGUAGE AND LEARNING DISORDERS. Causes, correlates, symptoms, assessments, and clinical/educational management; emphasis on description and prescription. Prerequisite: CD 216. (3).

351. BASIC AUDIOLOGY. Administration and interpretation of basic hearing measurement. Prerequisite: CD 205. (3).

356. PRINCIPLES OF AUDITORY (RE)HABILITATION. Management of the deaf and hard-of-hearing; emphasis on speech reading and auditory training. Prerequisites: CD 216 and 351. (3).

359. MANUAL COMMUNICATION. Study and practice in contemporary manual communication systems. (Same as LING 359). (3).

401. DIAGNOSTIC PROCEDURES. Basic differential diagnosis of communicative disorders; emphasis on instrumentation and interpretation. Prerequisites: CD 301, 316, 351, 356. (3).

405. FLUENCY AND VOICE DISORDERS. Causes, correlates, symptoms, assessment, and clinical management; survey of related disorders. Prerequisite: CD 205. (3).

421. PROGRAMS AND METHODS IN LANGUAGE DISORDERS. Sequential programs for the remediation of disordered spoken and written language. Prerequisite: CD 316. (3).

430. PRACTICES IN AUDIOLOGY. A general overview of practices in audiology including professional issues, pediatric and industrial audiology, disorders of the ear, and clinical techniques. Prerequisite: CD 351. (3).

452. FUNDAMENTALS OF SPEECH AND HEARING SCIENCE. To provide the undergraduate student with an understanding of the basic acoustic, physical, and psychological processes underlying speech and hearing. Prerequisite: CD 205. (3).

495. INTRODUCTION TO CLINICAL SCIENCE. The clinical process, applied behavioral analysis, and clinical research methods; emphasis on clinical writing. Prerequisites: CD 351, 356, 301, 316, and consent of instructor. (3).

- 496. PRACTICUM.** Applied clinical procedures and prescriptive programming for the communicatively handicapped. Prerequisites: CD 495, consent of instructor, and professional liability insurance. (3). (Z grade).
- 499. SENIOR SEMINAR.** Selected problems in identification, diagnosis, and management of communicative disorders. Prerequisite: senior standing. (1-3).
- 501. SURVEY OF COMMUNICATIVE DISORDERS.** Disorders of speech, language, and audition; emphasis on causation, correlates, and management. (3).
- 505. NEUROPHYSIOLOGY OF COMMUNICATION.** Neuroanatomical and neurophysiological bases of sensory, central, and motor aspects of language. Prerequisite: CD 205 or consent of instructor. (Same as LING 505). (3).
- 506. ANATOMY, PHYSIOLOGY, AND PATHOLOGY OF THE AUDITORY SYSTEM.** Normal and pathologic structure and function of the auditory system with emphasis on diagnosis, audiologic manifestation, and treatment of auditory disorders. (3).
- 507. FUNDAMENTALS OF HEARING SCIENCE.** Principles of decibel notation, properties of sound, acoustics, and psychophysical measurements. (3).
- 513. SPEECH SCIENCE.** Physiology and acoustics of the speech mechanism: ventilation, phonation, resonance, articulation, and audition. Emphasis on instrumentation used in assessment and remediation. Prerequisite: CD 205 or consent of instructor. (Same as LING 513). (3).
- 520. ADVANCED DIAGNOSTIC TECHNIQUES.** Current diagnostic theory and measurement methods for principal pathologies of speech, language, and hearing. Prerequisite: consent of instructor. (3).
- 521. DISORDERS OF FLUENCY.** Contemporary theories of etiology and principles of management for disorders of stuttering; study of related disorders. Prerequisite: consent of instructor. (3).
- 522. DISORDERS OF VOICE.** Organic and nonorganic disorders of voice; emphasis on functional disorders. Prerequisite: CD 205 or consent of instructor. (3).
- 523. PHONOLOGICAL DISORDERS.** Misarticulation; emphasis on contemporary methods of management. Prerequisite: 205 and 211 or consent of instructor. (3).
- 524. CLEFT PALATE.** Facial morphology, etiology, surgical and prosthetic correction, and orthodontia, emphasis on the rehabilitation team. Prerequisite: CD 205 or consent of instructor. (3).
- 526. NEUROGENIC DISORDERS OF LANGUAGE.** Study of the fundamentals of neurolinguistics; clinical problems of aphasia and traumatic brain injury; other clinical applications and neurolinguistics across the life span. Prerequisite: CD 505 or consent of instructor. (3).
- 531. SPECIAL PROBLEMS IN COMMUNICATIVE DISORDERS.** Specialized topics in speech-language pathology, speech science, deaf education, and audiology. (May be repeated for credit). (1-3).
- 532. WORKSHOP IN COMMUNICATIVE DISORDERS.** Intensive short-term study of selected issues and clinical procedure in communicative disorders. (May be repeated for credit). (1-3).
- 541. LANGUAGE DEVELOPMENT AND DISORDERS IN THE PRESCHOOL POPULATION.** Theories and sequential stages of language development in the birth-to-age-6 population. Attention given to the assessment and remediation of language disorders. Prerequisite: consent of instructor. (3).
- 551. CLINICAL AUDIOLOGY.** Theory, rationale and techniques of basic hearing evaluation. Calibration standards and procedures for audiological equipment. Prerequisite: CD 351 or equivalent. (3).
- 557. EDUCATIONAL AUDIOLOGY.** Diagnostic and habilitative procedures for school-age children in the school setting. (3).
- 560. MANUAL COMMUNICATION I.** A beginning course in sign language designed to familiarize the student with the various sign language systems and to provide the student with a basic core language. (3).
- 562. MANUAL COMMUNICATION II.** An intermediate course in manual communication designed to increase expressive and receptive sign language skills, to provide understanding of the linguistic nature of American Sign Language (AMESLAN) and to promote the acquisition of AMESLAN as a second language. Prerequisite: CD 560 or equivalent with consent of instructor. (3).
- 575. AUDIOLOGICAL INSTRUMENTATION AND MEASUREMENT.** Familiarization with basic technical characteristics and principles of instruments used in audiology. Prerequisite: CD 507 or consent of instructor. (3).
- 591. CLINICAL PRACTICUM IN AUDIOLOGY.** Practical experience in conventional audiologic techniques. (May be repeated for credit). (1-3). (Z grade).

592. CLINICAL SEMINAR IN SPEECH-LANGUAGE PATHOLOGY. Issues and techniques in the evaluation and remediation of speech-language pathologies. Prerequisite: consent of instructor. (May be repeated for credit). (2). (Z grade).

593. CLINICAL SEMINAR IN AUDIOLOGY. Issues and techniques in the evaluation and remediation of auditory problems. Prerequisite: consent of instructor. (May be repeated for credit). (2). (Z grade).

595. GRADUATE PRACTICUM. Advanced application of diagnostic and clinical management procedures. Prerequisite: consent of instructor. (May be repeated for credit). (1-3).

COMPUTER AND INFORMATION SCIENCE—CSCI

Associate Professor H. Conrad Cunningham, chair • 201 Weir Hall

Associate Professors Lawhead, Maginnis, Schoenly, and Wilkins • Assistant Professors Fan, Rhodes, and Rice • Instructors Jenkins and Zickos

103. SURVEY OF COMPUTING. Introduction to computers and computing for students with no prior computer experience. (Not to be used to satisfy computer science major requirements.) (3).

111. COMPUTER SCIENCE I. Introduction to computer science with emphasis on problem solving and algorithm development. Using a high-level, block-structured programming language, students design, implement, debug, test, and document computer programs for various applications. Corequisite: MATH 123 or 125. (3).

112. COMPUTER SCIENCE II. Continuation of CSCI 111 with emphasis on computer programming as a systematic discipline. The topics include data structures, abstract data types, algorithm design and analysis, and programming methods and standards. Prerequisite: CSCI 111. Corequisite: MATH 261 or 267. (3).

191. OFFICE APPLICATIONS. Introduction to the use of computers with emphasis on the Windows platform and the Microsoft Office suite of application tools. (Not to be used to satisfy computer science major requirements.) (3).

192. COMPUTING APPLICATIONS. Introduction to the use of computers with emphasis on the Windows platform and the WordPerfect suite of application tools. (Not to be used to satisfy computer science major requirements.) (3).

193. PERSONAL COMPUTER SYSTEMS. Study of the hardware and software components of personal computer systems for experienced computer users. (Not to be used to satisfy computer science major requirements). Prerequisite: previous computer experience (e.g., CSCI 103, 191, or 192). (3).

203. COMPUTERS AND INFORMATION PROCESSING. Introduction to computer programming and information processing principles using the Visual Basic language. (Not to be used to satisfy computer science major requirements). Prerequisite: previous computer experience (e.g., CSCI 103, 191, or 192). (3).

211. COMPUTER SCIENCE III. Devices and techniques for conventional file processing, sequential, hashed, indexed organizations; language and operating system support facilities. Prerequisite: CSCI 112. (3).

223. COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE. Introduction to the architecture of computer systems. The topics include processor and external device structures and operation, machine operations and instructions, assembly language concepts, and assembly language programming. Prerequisite: CSCI 112. (3).

251. PROGRAMMING FOR ENGINEERING AND SCIENCES. Algorithm development and structured programming techniques; numerical and graphical applications related to engineering and scientific problem solving. Corequisite: MATH 261 or consent of instructor. (3).

259. PROGRAMMING IN C++. Study of programming in the language C++, covering character processing; use of pointers with strings, arrays and functions; data structures; bitwise operators. Prerequisite: previous programming experience (e.g., CSCI 111, 203, or 251). (3).

300. SOCIAL RESPONSIBILITY IN COMPUTER SCIENCE. Study of the nature of and need for social responsibility and ethical behavior in computing and the computer professions. Prerequisites: CSCI 211, 223. (1).

- 305. SOFTWARE FOR GLOBAL USE.** Study of the principles and practice of software internationalization with emphasis on the design and customization of software to accommodate linguistic and cultural diversity. Prerequisite: CSCI 211 or consent of instructor. Corequisite: INST 101. (3).
- 311. MODELS OF COMPUTATION.** Introduction to the theoretical foundations of computer science, including automata and formal languages. Prerequisites: CSCI 112, MATH 301. (3).
- 323. SYSTEMS PROGRAMMING.** Study of a contemporary operating system and its set of tools from the perspective of software professionals and system administrators. The course analyzes the system components and their interactions, the tool environment, and system administration issues such as configuration, installation, networking, security, and performance tuning. Prerequisite: CSCI 223. (3).
- 345. INFORMATION STORAGE AND RETRIEVAL.** Examination of systems for storage and retrieval of information in textual and other formats. The topics include query processing, matching and ranking algorithms, text analysis, user interfaces, and evaluation of retrieval effectiveness. Prerequisite: CSCI 211. (3).
- 353. INTRODUCTION TO NUMERICAL METHODS.** Numerical solution of problems; problem analysis, algorithm design, coding, testing, interpretation of results; use of software packages on mainframe computers. Prerequisites: MATH 263 and 319 and proficiency in a higher-level language. (3).
- 361. INTRODUCTION TO COMPUTER NETWORKS.** Analysis of loosely coupled computer communication protocols and network services. A generic network model is presented and compared to selected examples of computer networks including the Internet TCP/IP and Internet-based applications. Prerequisite: CSCI 223 or TC 201. (3).
- 387. SOFTWARE DESIGN AND DEVELOPMENT.** Study of techniques for the construction of large, complex software systems, including project management, requirements analysis, specification, design, development, testing, documentation, deployment, and maintenance. Students develop software systems in a group structure that simulates an industrial setting. Prerequisites: CSCI 211, 223. (3).
- 390. SPECIAL TOPICS IN PROGRAMMING.** Study of topics in programming according to the interests of the instructor and students. (May be repeated for credit when the topic varies.) Prerequisite: CSCI 211 and consent of instructor. (3).
- 391. COMPUTER GRAPHICS.** Introduction to the fundamentals of computer graphics, including elementary figures, shading, geometric transformations, graphics program design, and interactive techniques. Prerequisites: CSCI 211, 223, MATH 262. (3).
- 405. COMPUTER SIMULATION.** Introduction to computer-based simulation and its applications to engineering, the sciences, and management. Prerequisites: CSCI 211, MATH 262, and a statistics course. (3).
- 423. INTRODUCTION TO OPERATING SYSTEMS.** Study of the basic concepts of operating systems, including user interfaces, process management, state saving, interprocess communication, input/output, device drivers, timing services, memory management, file management, and system abstractions. Prerequisites: CSCI 211, 223. (3).
- 433. ALGORITHM AND DATA STRUCTURE ANALYSIS.** Study of the design and analysis of algorithms and data structures. The topics include analysis techniques, sorting, searching, advanced data structures, graphs, string matching, and NP-completeness. Prerequisites: CSCI 211, MATH 301. (3).
- 444. MULTIMEDIA DESIGN AND DEVELOPMENT.** In-depth analysis of multimedia architecture and tools. Students implement an interactive multimedia project. Prerequisite: CSCI 211 or equivalent; or ART 302, 303. (3).
- 450. ORGANIZATION OF PROGRAMMING LANGUAGES.** History and concepts of programming languages; run-time behavior; formal aspects; language definition; data types and structures; control; and data flow, compilation and interpretation. Prerequisite: senior standing in computer science.* (3).
- 475. INTRODUCTION TO DATABASE SYSTEMS.** An introduction to database systems covering basic concepts, data models, normalization, concurrency, and storage structures. Prerequisite: CSCI 211, 223. (3).
- 487. SENIOR PROJECT.** Each student conducts an in-depth study of a current problem in computer science or a related area. Upon completion, the student presents the results in both oral and written forms. Prerequisite: senior standing in computer science* with completion of at least 6 hours of computer science courses at the 300 level or above.

490. SPECIAL TOPICS. Study of topics in computer science according to interests of the instructor and students. (May be repeated for credit when the topic varies.) Prerequisite: consent of instructor. (3).

495. UNDERGRADUATE COMPUTER SCIENCE INTERNSHIP. Internship in approved settings to enhance the educational experience of the student through supervised training in a professional computer science environment. Completion of an internship is recommended for all students but this credit does not count toward completion of degree requirements. Prerequisites: approval by CIS Undergraduate Committee, GPA of at least 3.0, and junior standing. Z grade. (3).

NOTE: All courses numbered 515 and above have the prerequisite "senior standing in computer science or consent of instructor," as well as any specific courses indicated in the course description.

517. NATURAL LANGUAGE PROCESSING. Computer processing of natural language text at morphological, lexical, syntactic, and semantic levels; algorithms and procedures for sentence parsing and analysis; applications of natural language processing techniques. (3).

520. FORMAL THEORY OF COMPUTER LANGUAGES. A detailed study of mathematical models of regular and context-free languages, nondeterministic and deterministic models; closure properties, design algorithms; simplification of grammar. (3).

521. COMPUTER SYSTEMS ENGINEERING. Analysis of computer system components and manufacturing economics, and how they influence design goals, direct architectural development, create hardware/software issues and modify implementation concepts, as well as system and circuit packaging. (3).

523. OPERATING SYSTEMS. Design and construction of operating systems for shared program computers; various contemporary operating systems. Prerequisite: CSCI 423. (3).

524. DISTRIBUTED OPERATING SYSTEM DESIGN. Analysis of operating system design principles for multiple computers; a distributed operating system model is presented and compared to selected network and distributed operating system examples. Prerequisite: CSCI 423 or equivalent. (3).

525. COMPILER CONSTRUCTION. Introduction to techniques used in current compilers for computer languages; the syntactic specification of programming languages and an introduction to syntax-directed compiling. (3).

530. COMPUTER ARCHITECTURE AND DESIGN. Structured organization and hardware design of digital computers; register transfers, micro-operations, control units and timing, instruction set design, microprogramming; automated hardware design aids. (3).

531. ARTIFICIAL INTELLIGENCE. Use of the computer in human problem solving. Game theory, decision trees, Markov decision problems, selected topics. (3).

533. ANALYSIS OF ALGORITHMS. Introduction to the analysis of efficiency of computer algorithms and concepts of computational complexity; sorting, matrix multiplication, others. Prerequisite: CSCI 433 or consent of instructor. (3).

541. EXPERT SYSTEMS AND LOGIC PROGRAMMING. Expert Systems and Knowledge Engineering. Computer systems to emulate human expertise. Rule-based and other knowledge representation techniques. Knowledge engineering as a model for expert systems development; logic programming for expert systems implementation. Prerequisite: CSCI 531 or consent of instructor. (3).

550. PROGRAM SEMANTICS AND DERIVATION. A study of formal methods for the specification, derivation, and verification of computer programs. Predicate logic; notations for specification of programs; programming language semantics; calculational techniques for derivation of programs; case studies. (3).

551. COMPUTER SYSTEM PERFORMANCE ANALYSIS. Defining, parameterizing, and evaluating models of computer systems. The emphasis is on applying queuing network models and simulation techniques as tools to evaluate the performance of centralized and distributed computer systems. Prerequisite: MATH 475 or consent of instructor. (3).

555. FUNCTIONAL PROGRAMMING. The principles and techniques of programming with functions. Purely functional programming languages; recursion; higher-order functions; reduction models; strictness; type systems; list operations; infinite data structures; program synthesis and transformation. (3).

561. COMPUTER NETWORKS. Analysis of loosely coupled computer communication, communication protocols, and network services; an open systems interconnection model is presented and compared to selected examples of computer networks. Prerequisite: CSCI 423 or equivalent. (3).

562. SOFTWARE ENGINEERING I. Software engineering paradigms, requirement analysis and specification, design of reliable software; data flow, data structure, and object oriented design methodologies. Prerequisite: CSCI 387. (3).

575. DATABASE SYSTEMS II. Review of database systems with emphasis on data description and manipulation languages; data normalization; functional dependencies; database design; data integrity and security; distributed data processing; design and implementation of a comprehensive project. Prerequisite: CSCI 475 or consent of instructor. (3).

581. SPECIAL TOPICS IN COMPUTER SCIENCE I. (May be repeated for credit). (1-3).

582. SPECIAL TOPICS IN COMPUTER SCIENCE II. (May be repeated for credit). (1-3).

*The prerequisite designation senior in computer science means successful completion of all courses specifically required in the computer science curriculum that are numbered less than 400.

COOPERATIVE EDUCATION—C OP

Associate Professor Stacy V. Holmes • 120 CARRIER HALL

201, 202. CO-OP WORK EXPERIENCE. Work experience in business, industrial, governmental, professional, service, or other organizations to provide on-the-job training and professional preparation in the student's area of interest. Prerequisite: selection by co-op coordinator and employer. (1-6). (Z-grade).

301, 302. CO-OP WORK EXPERIENCE. Similar to the 200 series, but offering more difficult and responsible job assignments. Prerequisite: selection by the co-op coordinator and employer. (1-6). (Z-grade).

401, 402. CO-OP WORK EXPERIENCE. Similar to the 300 series, but demanding higher levels of initiative, creativity, responsibility, and leadership. Prerequisite: selection by co-op coordinator and employer. (1-6). (Z-grade).

501, 502, 503. CO-OP WORK EXPERIENCE. Similar to the 400 series, but with job assignments offering more challenge and responsibility for the advanced student. Prerequisite: selection by co-op coordinator and employer. (Not applicable toward a graduate degree). (3, 3, 3). (Z-grade).

COUNSELING *See the Department of Leadership and Counselor Education.*

CRIMINAL JUSTICE *See the Department of Legal Studies.*

CROFT INSTITUTE FOR INTERNATIONAL STUDIES *See International Studies.*

CURRICULUM AND INSTRUCTION

Professor Fannye Love, chair • 316 Guyton Hall

Professors Burnham, Love, Payne, and Sumrall • Associate Professors Blackburn, Erdim-Payne, Hanshaw, Ingham, Leigh, Rowland, and Tyler • Assistant Professors Chessin, Holmes, Mims, Pepper, Sullivan, and Wiggers • Visiting Assistant Professors Adams, Cross, Harris, Moore, Raines, and Thompson • Instructors Blackwell, Gary, McConnell, Monroe, and Whitwell

Curriculum and Instruction–EDCI

096. ENGLISH AS A SECOND LANGUAGE COURSE A. This course is designed for non-native speakers of English at UM in order to facilitate improvement in their English language skills for the purpose of academic study. The specific course targets high-beginner learners of English.

097. ENGLISH AS A SECOND LANGUAGE COURSE B. This course is designed for non-native speakers of English at UM in order to facilitate improvement in their English language skills for the purpose of academic study. The specific course targets low-intermediate learners of English. Prerequisite: EDCI 096.

098. ENGLISH AS A SECOND LANGUAGE COURSE C. This course is designed for non-native speakers of English at UM in order to facilitate improvement in their English language skills for the purpose of academic study. The specific course targets high-intermediate learners of English. Prerequisite: EDCI 097.

099. ENGLISH AS A SECOND LANGUAGE COURSE D. This course is designed for non-native speakers of English at UM in order to facilitate improvement in their English language skills for the purpose of academic study. The specific course targets high-intermediate learners of English. Prerequisite: EDCI 098.

201. AMERICAN SIGN LANGUAGE I. Designed for students with no previous knowledge of American Sign Language; introduces the basics of ASL; receptive and expressive skills; fingerspelling and information about the community and culture of the deaf and hard-of-hearing. (3).

202. AMERICAN SIGN LANGUAGE II. An intermediate-level course, including common communicative events and interactions expressing abstract ideas. Emphasis is on the comprehension and production of increasingly complex linguistic structures using dialogues and conversational expressions without voice. Prerequisite: EDCI 201, American Sign Language I. (3)

300. CAREER EDUCATION. The process of teaching career education and economic awareness to students in elementary and secondary schools. (3).

303. DESIGN OF INSTRUCTION: EFFECTIVE TEACHING. Design of effective instruction through analysis of tasks, application of the principles of learning, selection of methods, and use of instructional decision-making skills based on student performance. (3).

351. FOUNDATIONS FOR PROFESSIONAL GROWTH. Exploration of selected components of the education profession; careers; purposes of education; developing an individual philosophy; ethical issues; professional literature; American education history; portfolio development; school organization; collegiality/cooperation; education and the legal system. (To be taken concurrently with 352.) (3).

352. HUMAN DEVELOPMENT AND DIVERSITY. Development, diversity, disabilities, and inclusive education; a holistic view of human development, including normative and dynamic perspectives with focus on practical application to K-12 classrooms. Field experience included. (To be taken concurrently with 351.) Pre- or corequisite: PSY 201. (3).

353. EFFECTIVE CLASSROOM PRACTICE. Reflection, research, and application of current and emerging trends in education; teacher evaluation; curriculum design; effective school research; evaluation and assessment; use of technology across the curriculum. (To be taken concurrently with 354.) (2).

354. INTRODUCTION TO INSTRUCTIONAL STRATEGIES. Introduction to teaching strategies and models such as direct instruction, discovery and inquiry, cooperative learning, and concept teaching in a developmental-constructivist context; attention to taxonomies for cognitive, affective, and psychomotor domains. Field experience included. (To be taken concurrently with 353.) (1).

403. EVALUATION AND COMMUNICATION IN THE ELEMENTARY SCHOOL. Overview of evaluative procedures in the elementary school. Practice in constructing tests. Emphasis on developing communication techniques for home and school relations. Survey of principles for elementary classroom management. (3).

503. MEASUREMENT AND EVALUATION FOR THE CLASSROOM TEACHER. Standardized achievement tests and evaluation procedures in schools; practice in constructing tests and evaluation instruments. (3).

526. THE MIDDLE YEARS SCHOOL. Characteristics, functions of middle years school; its relation to modern educational practice; role of administrators, teachers, students, curriculum, facilities unique to junior high and middle schools. (3).

542. TEACHING ENGLISH AS A FOREIGN LANGUAGE. Linguistics applied to the teaching of English as a foreign language; program organization and curriculum. (3).

557. COMPUTER CONCEPTS AND APPLICATIONS FOR EDUCATORS. Professional studies in educational computing and technology; computer/technology skills, concepts, and applications for teacher; use of technology to support content areas; integration of teaching methodologies. (3).

558. INTEGRATING THE INTERNET IN EDUCATION. Instructional strategies for integrating the use of the Internet as a teaching and learning tool in education. (3).

Early Childhood Education–EDEC

300. CURRICULUM AND THEORY FOR EARLY CHILDHOOD EDUCATION. Introduction to the theoretical background of early childhood education and to methods and materials used in teaching young children. (3).

301. EXPERIENCES IN EARLY CHILDHOOD EDUCATION. Observation and supervised practical experiences teaching young children. (3).

302. ORIENTATION TO EARLY CHILDHOOD EDUCATION. Introduces prospective teachers of young children to principles and practices in early childhood education; offers opportunities to observe and practice using relevant instructional, organizational, and methodological competencies in a multicultural early childhood setting. (6).

303. SCIENCE AND NUMBERS. Methods and experiences appropriate for nursery school through early elementary. (3).

500. INTRODUCTION TO EARLY CHILDHOOD EDUCATION. Principles, curriculum construction, methods, and materials in early childhood education. (Same as FCS 523). (3).

551. SCIENCE AND NUMBER CONCEPTS IN EARLY CHILDHOOD EDUCATION. Development of number and science concepts for nursery school through early elementary; emphasis on content, method, laboratory techniques. (Same as FCS 525). (3).

553. LANGUAGE CONCEPTS AND LITERATURE IN EARLY CHILDHOOD EDUCATION. Language development as communicative skill and expressive art through creative experiences from nursery school through early elementary; childhood literature as stimulus for language and conceptual growth. (3).

555. ART AND MUSIC IN EARLY CHILDHOOD EDUCATION. Development of creative expression through art and music in nursery and early elementary years; relationship between creative process and developmental stages. (Same as FCS 527). (3).

557. SEMINAR: SOCIAL LIVING IN EARLY CHILDHOOD EDUCATION. Sociological aspects of the family; meeting nutritional and medical needs; techniques of working with parents, community resources; development of social concepts. (3).

570. PROGRAM DEVELOPMENT AND ADMINISTRATION IN EARLY CHILDHOOD EDUCATION. Planning and administering a preschool program: setting goals, physical facilities, program development, scheduling, finances, staff selection and supervision, policy development, and parent involvement. (Same as EDLD 570). (3).

Education–EDUC

EFS 100. ENGLISH FOR FOREIGN STUDENTS. Speaking, comprehension, reading, and writing skills for foreign students. Class and laboratory sessions. Graduate and undergraduate sections. (Non-degree credit). (Z grade). (3).

333. SPECIAL TOPICS IN EDUCATION. A special topics course that has been designed to meet staff needs of public school districts in Mississippi. (1-6).

523. GROUP STUDY OF PROBLEMS IN SCHOOL SYSTEMS. Areas/problems approved by instructor. (For groups of teachers interested in improving subject areas of working on problems within system). (Z grade).(1-6; may be repeated for credit to a maximum of 6 hours).

555, 556. SPECIAL TOPICS IN EDUCATION. A special topics course designed to meet the in-service needs of school districts of Mississippi. Graduate students may use 6 semester hours toward a degree. Z grade for EDUC 556 only. (May be repeated for credit.) (1-6).

Educational Media–EDAV

427. EDUCATIONAL TECHNOLOGY. Basic principles of educational technology in teaching. The use of educational media and its specific applications to the subjects in educational settings. (3).

573. ORGANIZATION AND DIRECTION OF THE INSTRUCTIONAL MEDIA CENTER. Problems in directing the media center. Evaluation of needs for media programs, their organization in colleges, schools, and school systems. (3).

Elementary Education–EDEL

301. LANGUAGE ARTS IN THE ELEMENTARY SCHOOL. Modern methods and techniques in teaching language as forms of expression. Emphasis on defining objectives, planning and developing activities and materials, and evaluating instruction in elementary school language arts. (3).

303. SCIENCE IN THE ELEMENTARY SCHOOL. Practical instructional experiences as they relate to concepts, curriculum, and evaluation in science education. Emphasis on objectives, content, materials, and methods of science teaching in elementary schools supervised experiences with children. Prerequisite: admission to teacher education. (3).

305. CHILD DEVELOPMENT. The child from infancy through childhood; emphasis on developmental characteristics and interpersonal relationships. (3).

401. SOCIAL STUDIES IN THE ELEMENTARY SCHOOL. Practical instructional experiences as they relate to concepts, curriculum, and evaluation in social studies. Emphasis on objectives, content, materials, and methods of social studies teaching in elementary schools; supervised experiences with children. Prerequisite: admission to teacher education. (3).

403. MATHEMATICS FOR THE ELEMENTARY SCHOOL. Selected trends, concepts, and skills for teaching mathematics to elementary students; related applications and field experiences. (3).

414. INTEGRATED INSTRUCTION: A SOCIAL CONSTRUCTIVIST APPROACH TO TEACHING LANGUAGE ARTS, SOCIAL STUDIES, AND THE ARTS. Overview of child development and learning principles for language arts, social studies and arts instruction with teaching through an integrated curriculum; methods compatible with a social constructivist philosophy. Prerequisites: admission to teacher education, EDCI 351, 352, 353, 354. (9).

416. MATHEMATICS AND SCIENCE IN THE ELEMENTARY SCHOOL. Selected concepts, skills, and materials for teaching of mathematics and science to elementary students; use of materials; related applications and field experiences. (3).

420. SEMINAR IN ELEMENTARY EDUCATION. Seminar in elementary education taken simultaneously with the elementary education internship. (2).

519. TECHNIQUES AND PRINCIPLES FOR CLASSROOM MANAGEMENT. Basic behavior management principles available to the classroom teacher for effective classroom management. (3).

531. METHODS FOR REMEDIATION IN LANGUAGE ARTS AND ARITHMETIC. Techniques for assessment and remediation of elementary students with learning problems in language arts and arithmetic; selection and proper use of appropriate teaching materials. (3).

Field and Laboratory Experiences–EDLE

417. ACTION LABS IN THE ELEMENTARY SCHOOL. Laboratory experience designed to support elementary methods courses. (Z grade). (3).

464. STUDENT TEACHING: ELEMENTARY EDUCATION. Full-time, full-semester student teaching; preparation of portfolio of teaching and interview materials, staff development activities at PDS sites. (Z grade). (12).

467. STUDENT TEACHING: EXCEPTIONAL STUDENTS. Directed observation and participation in teaching. Prerequisite: admission to student teaching. (Z grade). (12).

471. STUDENT TEACHING: ART EDUCATION. (12).

473. STUDENT TEACHING: MUSIC EDUCATION. (12).

482. STUDENT TEACHING: ENGLISH. Full-time, full semester student teaching, preparation of portfolio of teaching and interview materials, professional development activities at schools. (12).

483. STUDENT TEACHING: FOREIGN LANGUAGES. Full-time, full semester student teaching, preparation of portfolio of teaching and interview materials, professional development activities at schools. (12).

485. STUDENT TEACHING: MATHEMATICS. Full-time, full semester student teaching, preparation of portfolio of teaching and interview materials, professional development activities at schools. (12).

486. STUDENT TEACHING: SCIENCE. Full-time, full semester student teaching, preparation of portfolio of teaching and interview materials, professional development activities at schools. (12).

487. STUDENT TEACHING: SOCIAL STUDIES. Full-time, full semester student teaching, preparation of portfolio of teaching and interview materials, professional development activities at schools. (12).

Library Science–EDLS

101. INTRODUCTION TO LIBRARY RESEARCH AND ELECTRONIC RESOURCES. Overview of information structures, library resources, systematic methods of research; research projects as learning strategies. (1)

301. CHILDREN'S LITERATURE, K-8. Selection, examination, and effective use of literature for children from kindergarten through grade 8. (3).

303. ADMINISTRATION OF THE MULTIMEDIA SCHOOL LIBRARY. History and purpose of school media centers; problems and practices in their organization and management; facilities; standards; programs and services; policies; budgets and personnel. (3).

432. SPECIAL METHODS: LIBRARY SCIENCE. Methods in librarianship. (3).

519. SELECTION OF MEDIA FOR CHILDREN. Evaluating and using both print and nonprint materials for children (K-8); emphasis on contemporary titles, trends and issues, and book reviews and talks. (3).

525. LITERATURE FOR TODAY'S TEENAGERS. Selection and evaluation of current titles appropriate for ages 13-19; extensive reading of contemporary fiction and nonfiction; emphasis on interests of teenagers, trends and issues, and book reviews and book talks. (3).

Reading Education–EDRD

300. FOUNDATIONS OF READING INSTRUCTION. Survey of the knowledge base necessary for teaching reading; emphasis on basics, word recognition, comprehension, and study skills. (2).

317. DIAGNOSIS AND REMEDIATION OF READING DISABILITIES. Fundamentals of diagnosis and remediation of reading disabilities and application in a practicum setting of the principles studied with emphasis on causes of reading disabilities. Prerequisite: EDRD 300. (3).

350. COMPUTER TECHNOLOGY AND READING INSTRUCTION. Survey of basic concepts related to computer technology and reading/language arts: theory, history, process, and reading styles and skills in an integrated approach. (3).

414. READING INSTRUCTION AND DIAGNOSIS. Survey of the knowledge base necessary for teaching reading; emphasis on basics; focus on fundamentals of diagnosis and remediation of reading disabilities. (3).

415. METHODS AND MATERIALS FOR TEACHING READING IN ELEMENTARY SCHOOL. The reading process as it applies to the elementary curriculum. Methods and materials for teaching word recognition, comprehension, and reading study skills. Management of instruction, learners, and the schedule for the reading program. (Lab hours required). Prerequisite: admission to teacher education, EDRD 300. (3).

429. READING IN THE SECONDARY SCHOOL. The reading process as it applies to junior and senior high school curricula. Emphasis on preparing pre-service content area teachers to meet the needs of students with widely varying levels of reading achievement. (3).

500. BASIC SKILLS IN READING. Introduction to reading; history, overview of the field, and basic instructional procedures. (3).

Secondary Education–EDSE

400. PRINCIPLES OF EDUCATION. Microteaching, teacher appraisal processes, and concerns of first year teachers; use of technology in the classroom, issues and concerns relating to reading throughout all content areas; strategies for teaching diverse learners; field experience included. (3).

401. SEMINAR ON CURRENT ISSUES. Prerequisite: admission to student teaching. To be taken concurrently with methods of teaching in area and student teaching. (1).

Methods of Teaching

442. SPECIAL METHODS I: ENGLISH. Selected concepts, skills, and materials for teaching of secondary English; use of materials and technology in association with related applications and field experience. (3).

443. SPECIAL METHODS: FOREIGN LANGUAGE. Selected concepts, skills, and materials for teaching of secondary foreign languages; use of materials and technology in association with related applications and field experience. (3).

445. SPECIAL METHODS I: MATHEMATICS. Selected concepts, skills, and materials for teaching of secondary mathematics; use of materials and technology in association with related applications and field experience. (3).

446. SPECIAL METHODS I: SCIENCE. Selected concepts, skills, and materials for teaching of secondary science; use of materials and technology in association with related applications and field experience. (3).

447. SPECIAL METHODS I: SOCIAL STUDIES. Selected concepts, skills, and materials for teaching of secondary social studies; use of materials and technology in association with related applications and field experience. (3).

452. SPECIAL METHODS II: ENGLISH. Selected strategies, methods, materials, and technology for teaching of secondary English associated with related student teaching experience. (2).

453. SPECIAL METHODS II: FOREIGN LANGUAGE. Selected strategies, methods, materials, and technology for teaching of secondary foreign languages associated with related student teaching experience. (2).

455. SPECIAL METHODS II: MATH. Selected strategies, methods, materials, and technology for teaching of secondary mathematics associated with related student teaching experience. (2).

456. SPECIAL METHODS II: SCIENCE. Selected strategies, methods, materials, and technology for teaching of secondary science associated with related student teaching experience. (2).

457. SPECIAL METHODS II: SOCIAL STUDIES. Selected strategies, methods, materials, and technology for teaching of secondary social studies associated with related student teaching experience. (2).

500. PRINCIPLES OF SECONDARY CLASSROOM INSTRUCTION. Educational principles applied to classroom motivation, learning, instruction, behavior management, and teaching strategies. (3).

501. CONTENT METHODOLOGY AND EVALUATION I. The selection and development of content area methods, resources, and evaluation. (3).

502. MULTICULTURAL FIELD EXPERIENCES. Field experiences in a variety of multicultural educational settings. (3).

Special Education—EDSP

308. INTRODUCTION TO SPECIAL EDUCATION. Introduction to and overview of the various exceptionalities receiving special education services. An inclusive approach is presented with strategies for accommodating students with disabilities in regular education settings. An emphasis is placed on the role of technology and its uses with students with learning and behavioral problems. Field experience included. (3).

327. NATURE AND NEEDS OF STUDENTS WITH MILD/MODERATE DISABILITIES. Introduction to the education of students with mild/moderate disabilities. Emphasis on the characteristics and assessment of students with mild/moderate disabilities as related to instruction. Field experience included. (3).

329. NATURE AND NEEDS OF STUDENTS WITH SEVERE DISABILITIES. Introduction to the education of students with severe disabilities. Emphasis on the characteristics and assessment of students with severe disabilities. Field experience included. (3).

335. ASSESSMENT OF EXCEPTIONAL STUDENTS. Formal and informal individualized assessment techniques used in instructional planning of students with disabilities. Practice in test administration, scoring, interpretation, and application. Field experience included. (3).

339. ORAL LANGUAGE METHODS AND MATERIALS WITH EXCEPTIONAL STUDENTS. Study of oral language skills and problems of educationally disabled students. Emphasis on methods and materials for instruction. Prerequisites: CD 201, EDSP 327, 329. (3).

401. COLLABORATION AND CONFERENCE STRATEGIES. Development of professional skills for collaboration between educators and families of students; strategies for effective conferencing with parents. (1).

402. ORGANIZATION AND ADMINISTRATION OF SPECIAL EDUCATION. The referral to placement process. Federal, state, and local laws, policies, and procedures. Financial bases, community resources, service delivery systems, program development, and models of instructional implementation. Prerequisite: EDSP 308. Field experience included. (3).

- 403. INSTRUCTIONAL STRATEGIES FOR STUDENTS WITH SEVERE DISABILITIES.** Strategies and procedures for instruction of students with severe disabilities. Field experience included. (3).
- 405. INSTRUCTIONAL STRATEGIES FOR STUDENTS WITH MILD TO MODERATE DISABILITIES.** Strategies for instruction of students with mild/moderate disabilities. Field experience included. (3).
- 407. SURVEY OF EXCEPTIONAL STUDENTS.** An overview of the legal bases for special education services and mainstream education, the referral-to-placement process, and strategies for accommodating the exceptional student. Prerequisite: EDCI 301. (1).
- 410. SEMINAR IN INSTRUCTION.** Issues and techniques in the evaluation of effective instruction. Prerequisite: senior standing and concurrent enrollment in EDSP 403, 405, and 452. (1).
- 411. SEMINAR IN SELECTED SPECIAL EDUCATION TOPICS.** Dissemination and discussion of information on current topics and issues in the field of special education. (1).
- 452. PRACTICUM AND FIELD EXPERIENCES WITH EXCEPTIONAL CHILDREN.** Supervised application of concepts and techniques in the education of exceptional students. (3).
- 541. EDUCATIONAL ASSESSMENT, METHODS AND MATERIALS I.** Basic assessment procedures of individual levels of functioning for pre-academic, elementary, and secondary programming levels. (3).
- 543. EDUCATIONAL ASSESSMENT, METHODS AND MATERIALS II.** Selection and application of specialized instructional methods and materials for the educationally disabled at the pre-academic, elementary, and secondary levels. (3).
- 545. EDUCATIONAL ASSESSMENT, METHODS AND MATERIALS III.** Development of individualized educational plans (IEP's), implementation of individualized programming and evaluation of programming effectiveness for the educationally disabled at the pre-academic, elementary, and secondary school levels. (3).
- 585. EDUCATION OF GIFTED STUDENTS.** Overview of the field of gifted education including identification, assessment, learning characteristics, education, and models for delivery of services. (3).
- 590. METHODS AND MATERIALS FOR THE GIFTED.** Teaching strategies, selection of materials, the development of special programs, and evaluation procedures for the gifted. (3).

DEVELOPMENTAL STUDIES—DS

Instructor Patricia C. Treloar, director

(Enrollment in developmental studies courses is restricted to students who meet criteria outlined in "Minimum Test Scores" in the "Admission to the University" section of this catalog.)

- 089. LEARNING SKILLS LAB.** Part of the Summer Developmental Program. (3, nondegree).
- 090. DEVELOPMENTAL READING.** Part of the Summer Developmental Program. (3, nondegree).
- 091. DEVELOPMENTAL ENGLISH.** Part of the Summer Developmental Program. (3, nondegree).
- 092. DEVELOPMENTAL MATHEMATICS.** Part of the Summer Developmental Program. (3, nondegree).
- 095, 096. DEVELOPMENTAL SUPPORT LAB.** Tutoring, counseling, and learning skills development for students enrolled in DS 097, DS 098, and/or DS 099. Students enrolled in two or more intermediate courses must successfully complete two semesters of Developmental Support Lab. (2, 2, nondegree).
- 097. INTERMEDIATE READING.** A remedial course designed to help students improve basic reading skills, vocabulary, and comprehension. Students whose ACT reading subscore is less than 17 or SAT verbal score is less than 400 must enroll in DS 097 during their first semester of enrollment and continue in the course until receiving a passing grade. Students with ACT reading subscores of 17, 18, or 19 are strongly encouraged to take Intermediate Reading. Students enrolled in Intermediate Reading are not allowed to enroll in social science or literature courses. (3, nondegree).

098. INTERMEDIATE ENGLISH. A course for students not yet prepared to take English 101. Students whose ACT English subscore is less than 17 or SAT verbal score is less than 400 must enroll in DS 098 during their first semester of enrollment and continue in the course until receiving a passing grade. Students with ACT English subscores of 17, 18, or 19 are strongly encouraged to enroll in Intermediate English. Students enrolled in Intermediate English are not allowed to enroll in other English courses. (3, nondegree).

099. INTERMEDIATE ALGEBRA. A remedial course for students not yet prepared to take college mathematics. Students with ACT mathematics subscores less than 17 or SAT mathematics scores less than 400 are required to enroll in DS 099 during their first semester of enrollment and continue in the course until receiving a passing grade. Students with ACT mathematics subscores of 17, 18, or 19 are strongly encouraged to enroll in Intermediate Algebra. Students enrolled in Intermediate Algebra are not allowed to enroll in other mathematics courses. (3, nondegree).

EARLY CHILDHOOD EDUCATION *See the Department of Curriculum and Instruction.*

ECONOMICS

Associate Professor Mark V. Van Boening, interim chair • 374 Holman Hall

Professors Belongia, Shughart, and Smith • Visiting Professor Terasawa • Associate Professors Chappell, Conlon, Mayer, and Moen • Assistant Professors Archibald, Wang, and Young

Economics—ECON

101. INTRODUCTION TO ECONOMICS. Primer for students who wish to have basic economic literacy, understand different economic concepts and policies, and develop critical thinking skills. (3).

202. PRINCIPLES OF MICROECONOMICS. The nature of economics, economic concepts, and institutions; the role of the price system in directing the production of goods and services; distribution of income; and comparative economic systems. (3).

203. PRINCIPLES OF MACROECONOMICS. Resources and goals of the economy; national income; unemployment; money and banking; fiscal and monetary policy; contemporary problems; economic growth; and international economics. Prerequisite: ECON 202. (3).

230. ECONOMIC STATISTICS I. Statistical decision-making, parameters, probability, sampling, inference and testing, comparative experiments, linear correlation, and time series analysis. Prerequisite: C minimum in MATH 267 or MATH 261 and C minimum in MIS 241. (Same as BUS 230). (3).

302. ECONOMIC STATISTICS II. Sampling, parametric and nonparametric testing, multiple regression and correlation, experimental design, Bayesian statistics. Prerequisite: C minimum in ECON 230. (Same as BUS 302). (3).

303. MONEY AND BANKING. Nature and functions of money and banking; relation of money and credit to the American political system, the Federal Reserve System, and national economic goals. Prerequisite: C minimum in ECON 203. (Same as FIN 303). (3).

305. CURRENT ECONOMIC TOPICS. Relevant social, political, and economic issues: air pollution, urban renewal, the gold problem, population growth, consumerism, inflation, unemployment. (3).

307. MANAGERIAL ECONOMICS. The economic analysis of managerial decision making. Emphasis on pricing, investment, resource allocation, compensation, and organizational structure. Prerequisite: C minimum in ECON 202, 203; C minimum in MATH 267 or MATH 262. (3).

308. OPERATIONS RESEARCH. Probability, Bayesian analysis and statistical experience in matrix algebra, linear programming, PERT, and inventory analysis. Prerequisite: C minimum in BUS 230. (Same as BUS 308). (3).

310. ENGINEERING ECONOMY. Principles of economics for engineers. Cost concepts and cost estimation, financial and profitability analysis of alternative projects, and the fundamentals of project management. Open to engineering students only or with consent of instructor. (3).

320. CURRENT GLOBAL ECONOMIC ISSUES. The application of microeconomic and macroeconomic tools to analyze current global economic issues, including market interdependence, trade disputes and liberalization, currency realignment, economic policy coordination, and the causes and consequences of recent international economic crises. (3).

323. INTRODUCTION OF MANPOWER ECONOMICS. Foundations of labor market analysis for manpower policy and program decisions. Development of manpower policies with emphasis on development since 1960; manpower forecasting, planning, and evaluation concerned with the analysis of human resources. (3).

329. AN ECONOMIC HISTORY OF THE SOUTH SINCE THE CIVIL WAR. A survey of the major economic developments in the South since the Civil War, with special emphasis on Southern economic growth and its effects on the United States generally. (Same as HIS 335). (3).

401. GOVERNMENT AND BUSINESS. Economic analysis of public policies affecting the structure, behavior, and performance of firms and industries; antitrust legislation; other aspects of the market process. Prerequisites: C minimum in ECON 202 and ECON 203. (3).

403. INTERMEDIATE MICROECONOMICS. Factors influencing prices, resource allocation, and income distribution with emphasis on demand, supply, technology, and market structure. Prerequisite: C minimum in ECON 202, and C minimum in MATH 267 or MATH 262. (3).

404. INTERMEDIATE MACROECONOMICS. Aggregate economics; effect of key economic variables on employment, production, consumption, investment, saving, money, government expenditures, and price levels. Prerequisite: C minimum in ECON 203 and C minimum in MATH 267 or MATH 261. (3).

406. NATURAL RESOURCE ECONOMICS. Analysis of economic problems associated with optimum use of land and natural resources with emphasis on energy. Prerequisite: C minimum in ECON 202 and ECON 203. (3).

417. LABOR ECONOMICS. A theoretical and institutional examination of labor markets, including wage theories, unionism, and problems of security. Prerequisite: C minimum in ECON 202 and ECON 203. (3).

422. ECONOMIC GROWTH AND DEVELOPMENT OF THE SOUTH. Investigates current economic and business environment of the South. Examines interaction of social and economic factors affecting discrimination, poverty, and economic development. Prerequisites: C minimum in ECON 202 and ECON 203. (3).

423. MANPOWER INTERNSHIP. Internship in manpower open only to those with a major field in manpower. A summer field experience of six weeks is required. Prerequisites: C minimum in ECON 202 and ECON 203. (3).

504. ECONOMIC ISSUES IN AMERICAN HISTORY. Trends and issues in American economic history from the Colonial Period to the present. Prerequisite: C minimum in both ECON 202 and ECON 203. (3).

505. PUBLIC FINANCE. Economics of taxation and government spending. Impact of government fiscal operations on employment, price levels, resource allocation, income distribution, and economic growth. Prerequisites: C minimum in ECON 202 and ECON 203. (3).

506. PUBLIC FINANCE ADMINISTRATION. Federal budgeting practices and policies, intergovernmental fiscal relations, cost-benefit studies, economics of state and local governments. Prerequisite: ECON 505. (3).

510. INTERNATIONAL TRADE AND COMMERCIAL POLICY. Reason for trade; analysis of U.S. exports and imports; balance of trade; commercial policy, foreign exchange, gold problems; changing trends. Prerequisites: ECON 307, as well as a C minimum in both ECON 202 and ECON 203. (3).

520. SPECIAL TOPICS IN ECONOMICS. Selected issues, problems, research techniques, materials, and policies; content varies. Prerequisite: Consent of instructor. (Credit not available for degrees in economics or business administration). (3).

525. ECONOMICS OF HIGH-TECH INDUSTRIES. Strategic issues in high-tech industries; cost structures, process versus product innovations, network externalities, standard setting and coordination games, alliances, licensing, and pricing of technology. (3).

530. STATISTICAL METHODS FOR ECONOMICS AND FINANCE. A coverage of statistical methods to prepare students for future study of econometrics. ECON 530 is the prerequisite for ECON 630. Prerequisite MATH 262. (3).

540. SEMINAR IN ECONOMICS. Selected topics in economics; content varies. (May be repeated once for credit). Prerequisite: Consent of instructor. (3).

545. GAME THEORY AND STRATEGIC THINKING. Basic principles of strategic thinking and game theory. Applications to strategic firm interaction, incentives, and bargaining are emphasized. Prerequisite: ECON 307 or ECON 403; a C minimum in MATH 267; or consent of instructor.

581. COLLECTIVE BARGAINING. Prerequisite: MGMT 383, and senior standing or higher. (3). (Same as MGMT 581).

583. LABOR RELATIONS. Prerequisite: MGMT 581 and senior standing or higher. (3). (Same as MGMT 583).

EDUCATIONAL MEDIA *See the Department of Curriculum and Instruction.*

EDUCATIONAL PSYCHOLOGY *See the Department of Leadership and Counselor Education.*

EDUCATIONAL RESEARCH *See the Department of Leadership and Counselor Education.*

ELECTRICAL ENGINEERING—EL E

Professor Allen W. Glisson, chair • 302 Anderson Hall

Professors Daigle, Elsherbeni, Kishk, and Lee • Associate Professors Goggans, Gordon, and Yakovlev • Assistant Professors Cao, Hutchcraft, Matalgah, and Yang

100. INTRODUCTION TO ELECTRICAL ENGINEERING. Relevant perspective on the entire electrical field with review of professional careers. (1).

101. SURVEY OF ELECTROTECHNOLOGY. Applications of electricity in modern society: consumer electric and electronic equipment, computers, medical electronics, industrial electronics, communications. Lectures, films, demonstrations. (For nonengineering students). (3).

301. APPLIED ELECTRONICS. Introduction to electronic devices and systems: electric circuit and system analysis, diodes, transistors, integrated circuits, amplifiers, digital circuits, measurement techniques. Prerequisite: knowledge of elementary algebra and trigonometry. (May not be counted toward major in electrical engineering). (3).

302. APPLIED COMMUNICATION SYSTEMS. Introduction to general communication principles and systems including transmission media, modulation, detection, and system applications. Prerequisite: EL E 301 or consent of instructor. (May not be counted toward a major in electrical engineering). (3).

331. LINEAR SYSTEMS. General concepts and descriptions of linear systems, signal flow graphs and block diagrams, Fourier and Laplace transforms, state-variable methods, Z transforms, transfer functions, impulse response, analog computation. Prerequisites: ENGR 310, 360. (3).

333. SYSTEMS LABORATORY. Corequisites: EL E 431, 447. (3 lab hours). (1).

335. PRINCIPLES OF DIGITAL SYSTEMS. Binary numbers, number system conversion, coding schemes; Boolean algebra, axioms, theorems, Karnaugh map; logic design, Boolean functions, minimization; implementation of transform methods; asynchronous systems. Prerequisite: CSCI 251 or 111. Corequisite: EL E 336. (3).

336. DIGITAL SYSTEMS LABORATORY I. Corequisite: 335. (3 lab hours). (1).

337. DIGITAL SYSTEMS LABORATORY II. Self-paced laboratory. Prerequisite: EL E 335 and 336. (3 lab hours). (1).

341. THEORY OF FIELDS. Field concepts, vector algebra and calculus, Laplace's equations, wave equation, diffusion equation and their solutions; electric and magnetic fields, Maxwell's equations. Prerequisite: MATH 264. Corequisite: ENGR 410. (3).

- 351, 352. MODELS AND CIRCUITS I, II.** Terminal characteristics of devices, graphical analysis, linear piece-wise analysis, two-port parameters, equivalent models, and circuits. Prerequisite: ENGR 360. (3, 3).
- 353. ELECTRONICS LABORATORY.** Prerequisite: ENGR 361. Corequisite: EL E 352. (3 lab hours). (1).
- 354. PC-BASED INSTRUMENTATION LABORATORY.** Self-paced laboratory on the development of data acquisition and test and measurement systems based on personal computers. Prerequisite: EL E 353 and 386 or consent of instructor. (3 lab hours). (1).
- 357, 358. ELECTRICAL ENGINEERING PROBLEMS I, II.** Analytical procedures and numerical techniques in basic electrical engineering. Corequisites: EL E 351, ENGR 361, 310. (1, 1).
- 367, 368. COMPUTER-AIDED DESIGN IN ELECTRICAL ENGINEERING I, II.** Computer-Aided Design (CAD) and analytical procedures in electrical engineering. Corequisites: 351, ENGR 361, 310. (2, 1).
- 385. ADVANCED DIGITAL SYSTEMS.** Organization and design of digital computing systems. Register transfer language. Computer architecture. Memory. ALU. Addressing modes. Prerequisites: EL E 335, 336. (3).
- 386. ADVANCED DIGITAL SYSTEMS LABORATORY.** Prerequisite: EL E 385. (3 lab hours, self-paced). (1).
- 431. THEORY OF CONTROL SYSTEMS.** Analysis and design of servo-mechanisms, control systems; stability analysis; complex plane, root locus, attenuation-phase, and compensation; multiple-loop, multiple-input systems; analog simulation. Prerequisite: EL E 331. (3).
- 432. ROBOTICS LABORATORY.** Self-paced experiments in the study of robot technology, including programming, control, and applications. Prerequisite: Consent of instructor. (3 lab hours). (1).
- 433. HIGH FREQUENCY AND MICROWAVE LABORATORY.** Prerequisites: 333, 441. (1).
- 434. FIBER OPTICS LABORATORY.** Self-paced experiments covering measurement of characteristics of optical fibers, light-emitting diodes and photodetectors. Prerequisite: EL E 441. (3 lab hours). (1).
- 441, 442. ELECTROMAGNETIC THEORY I, II.** Transmission-line theory, electric and magnetic properties of matter, plane waves, guided waves; wave propagation in anisotropic media, microwave networks, radiation, antennas. Prerequisite: EL E 341. (3, 3).
- 443. NETWORK ANALYSIS AND SYNTHESIS.** Properties of network functions, synthesis of passive and active RC networks. Prerequisites: EL E 351, ENGR 310, 360, 410. (3).
- 447. MODULATION, NOISE, AND COMMUNICATIONS.** Spectral analysis, sampling theory, analog and digital modulation techniques, information, communication systems, and noise. Prerequisites: EL E 331, 352. (3).
- 449. ANALOG COMMUNICATIONS LABORATORY.** Self-paced experiments covering measurement of characteristics of analog communications systems, AM and FM modulation, and demodulation. Prerequisite: EL E 353. Corequisite: EL E 447. (3 lab hours). (1).
- 450. DIGITAL COMMUNICATIONS LABORATORY.** Self-paced experiments covering measurement of characteristics of digital communication systems, modulation, and demodulation. Prerequisites: EL E 353, 386. Corequisite: EL E 447. (3 lab hours). (1).
- 451. ELECTRICAL ENERGY CONVERSION.** Basic principles of electrical energy conversion; fundamentals of electromechanical devices and applications. DC and AC motors and generators. Transformers and electric power transmission. Prerequisites: EL E 331, 341; ENGR 360. (3).
- 452. ELECTRIC POWER TRANSFORMER LABORATORY.** Self-paced experiments covering principles of electric power transmission using transformers including magnetic and equivalent circuits, efficiency, and losses. Corequisite: EL E 451. (1).
- 453. SOLID STATE DEVICES.** Crystals, conduction, semiconductors, dielectric and magnetic materials, energy band theory applied to junction devices, transistors. Prerequisite: PHYS 317 and EL E351 or PHYS 321. (Same as PHYS 453). (3).
- 461, 462. SENIOR DESIGN IN ELECTRICAL ENGINEERING I, II.** Prerequisites: EL E 353, 368 and senior status. (3 and 6 lab hours, respectively). (1, 2).
- 485. MICROPROCESSOR SYSTEMS ENGINEERING.** Microcomputer systems. Programming, software aids, and principles of microprocessor interfacing. Prerequisites: EL E 352, 353, 385, 386. Corequisite: EL E 486. (2).
- 486. MICROPROCESSOR SYSTEMS ENGINEERING LABORATORY.** Design and application of digital integrated circuits. Digital system realization. Programming and interfacing microprocessors and electronic systems. Corequisite: EL E 485. (3 lab hours). (1).

487. DIGITAL SIGNAL PROCESSING LABORATORY. Self-paced laboratory on the fundamentals of data acquisition and digital signal processing. Prerequisite: EL E 354 or consent of instructor. (3 lab hours). (1).

521, 522. ELECTRICAL ENGINEERING PROJECTS I, II. Approved investigation of problem under direction of a member of the staff. (May be repeated for credit). (3, 3).

523. MICROWAVE ENGINEERING. Microwave integrated circuits, scattering matrix description of microwave circuit elements, computer analysis of cascade two-ports, microwave semiconductor devices. Prerequisite: EL E 441. (3).

525. INTRODUCTION TO ANTENNAS. Linear antennas and use of computer programs for antenna analysis and design. Arrays of antennas, beam shaping methods, and mathematical techniques. Prerequisite: EL E 441. (3).

533. ELECTRONIC PROPERTIES OF MATERIALS. Theories of electron/atom interactions and electron transport are examined to explain the electronic properties of solids. Junctions, magnetic, and optical properties are also discussed with special emphasis on semiconducting materials. (3).

561. MICROWAVE CIRCUIT DESIGN. Design projects on passive and active microwave circuits (self-paced). Prerequisite: EL E 433, 523, or consent of instructor. (6 lab hours). (2).

ENGINEERING—ENGR

Professor Kai-Fong Lee, dean • 101 Carrier Hall

100. INTRODUCTION TO ENGINEERING. The purpose of this course is to provide students with an introduction to the problem-solving methods that engineers use when applying scientific principles for the creation of realistic solutions to everyday technical problems. (2).

207. GRAPHICS I. Microcomputer-based sketching and drafting, interpretation of graphics, flow and circuit diagrams, graphical representation of data. (1).

208. GRAPHICS II. Continuation of engineering graphics tailored to suit individual needs in areas of structural and architectural detailing, perspective drawing, shadow designation, descriptive geometry, etc. Prerequisite: ENGR 207 or permission of instructor. (2).

301. ENVIRONMENTAL ENGINEERING LABORATORY I. The application of common techniques used in the analysis of natural waters and domestic and industrial wastes is emphasized. The laboratory includes gravimetric, volumetric, electrometric and colorimetric methods of analysis. Laboratory is project oriented. Corequisite: CE 471. (1).

302. FLUID MECHANICS LABORATORY. Prerequisite: ENGR 321. (3 lab hours) (1).

307. TECHNICAL COMMUNICATIONS. Fundamentals of speech and oral presentation, business communications, technical reporting, and problem solution layout. (2).

309. INTRODUCTORY MECHANICS. Force systems and equilibrium; vector algebra. Kinematics and kinetics of particles in three dimensions and rigid bodies in a plane. Prerequisite: PHYS 211. Corequisite: MATH 263. (3).

310. ENGINEERING ANALYSIS I. Solution of differential equations by analytical and series methods, linear algebra and matrix theory, Fourier series and transforms, solution of partial differential equations, numerical analysis, probability and statistics. Prerequisite: MATH 353. (4).

311. INTERMEDIATE MECHANICS. Equilibrium of frames and machines; concepts of work and energy, impulse and momentum; friction, rotating frames of reference, kinetics and kinematics of rigid bodies; free and forced vibrations. Prerequisite: ENGR 309. (3).

312. MECHANICS OF MATERIALS. Mechanics of deformable bodies: stress, strain, Hooke's Law; axial loading, bending, torsion, and column problems; introduction to statically indeterminate problems. Laboratory demonstrations of buckling of columns and deflection of beams, plane stress analysis. Prerequisite: ENGR 309. (3).

313. INTRODUCTION TO MATERIALS SCIENCE. Fundamental concepts of materials science including the structure and properties of materials and their relationship to material selection and system design. The internal structures of metals, ceramics, and polymers are examined to develop an understanding of their mechanical, electrical, physical, and chemical properties. Prerequisite: CHEM 106. (3).

314. MATERIALS SCIENCE LABORATORY. Laboratory investigation of crystal structure, defects, and diffraction theory; solidification of solids; microstructurally controlled physical and mechanical properties. Corequisite: ENGR 313. (1).

- 321. THERMODYNAMICS.** Equilibrium, thermodynamic variables, equations of state, first and second laws of thermodynamics, single and multiphase systems. Prerequisite: PHYS 211, MATH 262, CHEM 105. (3).
- 322. TRANSPORT PHENOMENA.** Conservation of momentum, energy and mass, transport coefficients, balances in differential form. Prerequisite: ENGR 321. (3).
- 323. FLUID MECHANICS.** Physical properties of fluids, fluid statics, control volume approach (mass, momentum and energy conservation), Bernoulli equation, dimensional analysis, friction and head loss, flow in closed conduits, forces over immersed bodies, flow in open channels, turbomachinery, Navier-Stokes equations, turbulence. Prerequisite: PHYS 211. Corequisite: MATH 264. (3).
- 330. ENGINEERING SYSTEMS ANALYSIS AND DESIGN.** Mathematical modeling and solution techniques to determine system response and design parameter selection to meet the performance and stability considerations of basic engineering systems including: mechanical, electrical, electromechanical, thermal, hydraulic, and feedback control systems. Case studies. Prerequisite: PHYS 212. Corequisite: MATH 353. (3).
- 340. ENGINEERING GEOLOGY.** Introduction to properties and mechanics of earth materials: rock, soils, and groundwater. Weathering and soil-forming processes. Geophysical methods. Hazards including mass wasting, subsidence, expansive soils, floods, and earthquakes. Earth dams and dam foundations. Prerequisites: CHEM 105, MATH 262, PHYS 211. (3).
- 351, 352. SOCIO-TECHNOLOGY I, II.** Social-technological-environmental systems, problems; natural laws, their impact on the socioeconomic structure, decision making, optimization; lectures, films, demonstrations; for nonengineering students. (3, 3).
- 360. ELECTRIC CIRCUIT THEORY.** Fundamental circuit concepts and laws, network analysis and theorems, forced and transient response, steady-state response, coupled circuits, two-port networks. Prerequisite: PHYS 212. Corequisite: MATH 353. (4).
- 361. ELECTRIC CIRCUIT LABORATORY.** Circuit elements and instruments; experiments dealing with series and two-port networks, voltage, current power, vars. Prerequisite: ENGR 360. (1).
- 400. LEADERSHIP AND PROFESSIONALISM IN ENGINEERING.** This seminar will introduce students to leadership and entrepreneurial skills necessary for today's engineering industry. The importance of professionalism in engineering will be emphasized. Prerequisite: junior standing in engineering or consent of instructor. (1).
- 401. ENVIRONMENTAL ENGINEERING LABORATORY II.** Development of environmental analytical techniques and supporting skills; collection of high quality data and appropriate analysis and presentation is emphasized. Computer use is required. Prerequisite: ENGR 301. Corequisite: ENGR 537. (1).
- 402. ENGINEERING FUNDAMENTALS.** Review of fundamentals of engineering, including mathematics, chemistry, statics, dynamics, mechanics of materials, fluid mechanics, thermodynamics, electric circuit, material science, engineering economics, and ethics. Discipline specific subjects, such as chemical, civil, electrical, environmental, and mechanical engineering will be reviewed depending on the composition of the class. Prerequisite: senior standing in engineering. (1).
- 407. LEGAL AND MORAL ASPECTS OF ENGINEERING.** Professional conduct, registration and licensing, contracts, regulations, and responsibilities to society. (1).
- 410. ENGINEERING ANALYSIS II.** Review of vector algebra; functions of several variables; multiple integrals; line integrals and vector integral calculus; complex numbers, limits, analytical functions, and derivatives; line integrals; Cauchy's theorem and formula; Taylor and Laurent series; residue theory. Prerequisites: MATH 264, 353. (4).
- 415. ENGINEERING ACOUSTICS I.** Development of analytical basis for acoustic wave production and propagation. Specific attention will be devoted to governing equations, energetics, propagation, and production of three-dimensional acoustic waves. Prerequisites: PHYS 212, MATH 353. (3).
- 453. PROBABILITY AND STATISTICS ANALYSES IN ENGINEERING DESIGN.** Introduction to probability, statistics, uncertainty, and reliability. Application of common continuous and discrete probability distributions. Design under uncertainty and elementary decision analysis. Simulation of random variables. Applications in natural and man-made materials, hydrological and geological conditions, and other natural processes and engineering design. Prerequisite: MATH 263 or permission of instructor. (3).

- 501. FUNDAMENTALS OF COMPUTER SCIENCE.** Survey of fundamental topics in computer science including machine, assembler and high-level languages, design of assemblers, loaders, macro processors and compilers, operating system concepts, and other material essential for graduate work in computer science. (3).
- 537. ENVIRONMENTAL ENGINEERING II.** Interdisciplinary overview of environmental engineering. Ecology, toxicology, treatments, hydraulics/hydrology, computational simulation, waste repositories. Prerequisite: CE 471 or equivalent. (3).
- 551. ENGINEERING THERMODYNAMICS.** Advanced classical thermodynamics of systems of constant composition; emphasis on topics particularly useful to thermodynamic analysis in engineering. (3).
- 553. HEAT TRANSFER.** Transient and multidimensional heat conduction, free and forced convection, thermal radiation; design of heat transfer systems; analytical and numerical methods. Prerequisite: ENGR 322 or equivalent. (3).
- 558. VIBRATION ANALYSIS.** This course is intended to establish a systematic treatment of problems in the vibration of linear systems. Topics covered include systems with multiple degrees of freedom, properties of vibrating systems, vibration of continuous systems, and approximate numerical methods for finding natural frequencies. (3).
- 559. ELEMENTS OF ROBOTICS.** This course will concentrate on the mechanical aspects of robotic manipulators, including manipulator kinematics, dynamics and trajectory generation. This course will provide a thorough treatment of the fundamental skills underlying the use and mechanics of manipulators. (3).
- 561. SPACECRAFT SYSTEMS DESIGN I.** Introduction to space flight and spacecraft design; the space environment; basic orbital relationships; orbit control requirements; maneuvers and staging. Propulsion system design considerations. Prerequisite: consent of instructor. (3).
- 562. SPACECRAFT SYSTEMS DESIGN II.** Spacecraft design methods; systems approach. Attitude determination and control systems; subsystem technologies and interfaces; payloads; communications; deep space. Support, test, and interface equipment. Prerequisite: ENGR 561. (3).
- 572. ADVANCED SANITARY ANALYSIS.** Introduction to advanced theoretical concepts in sanitary engineering with special emphasis on inorganic, organic, and physical chemistry. Prerequisite: CE 471. (3).
- 577. GEOPHYSICS I.** Gravity and magnetic theory and methods. Prerequisite: consent of instructor. (Same as GE 577). (3).
- 579. GEOPHYSICS II.** Seismic and electrical theory and methods of subsurface investigation. Prerequisite: consent of instructor. (Same as GE 579). (3).
- 581. APPLICATIONS IN GEOPHYSICS.** Design and analysis of geophysical field problems. Prerequisite: ENGR 577 or 579 or consent of instructor. (4 lab hours). (May be repeated for a maximum of 6 hours). (3).
- 582. INTERDISCIPLINARY FIELD PROJECTS.** Interdisciplinary field projects for geologists, geological engineers, and civil engineers. For example, the course may cover waste management design, or offshore drilling and sampling, or mineral recovery projects. Prerequisites: Consent of instructor. (1-6).
- 585. MECHANICS OF COMPOSITE MATERIALS I.** Development of constitutive laws governing the hygro-thermo-mechanical response of composite material systems. Micromechanical and macromechanical modeling, laminate theory, definition and comparison of failure criteria. Damage modeling and fatigue studies. Prerequisite: ENGR 312 or equivalent. (3).
- 590. FINITE ELEMENT ANALYSIS I.** Basic concepts and principles of the finite element method; discretization and interpolation techniques; element formulations; applications for analysis of engineering problems. Prerequisite: Consent of instructor. (3).
- 591, 592. ENGINEERING ANALYSIS I, II.** Application of higher mathematics to engineering problems; special emphasis on the expression of engineering problems in mathematical terminology. Prerequisite: MATH 353. ENGR 591 is not a prerequisite for ENGR 592. (3, 3).
- 593, 594. APPROXIMATE METHODS OF ENGINEERING ANALYSIS I, II.** Application of approximate methods to solve boundary value and eigen-value problems; approximate analytical methods (series solutions); variational principles and numerical methods (finite difference, finite element, computer simulation). Prerequisite: MATH 353 or consent of instructor. (3, 3).
- 597. SPECIAL PROJECTS.** Approved investigation of original problem under direction of a staff member. (May be repeated for credit). (1-3).

ENGLISH—ENGL

Professor Joseph Urgo, chair • 128 Bondurant

Professors Barbera, Fisher, Fisher-Wirth, Galef, Hall, Kamps, Kartiganer, Kullman, McClelland, Robinson, Schirmer, and Urgo • Associate Professors Barker, McKee, Raber, N. Schroeder, R. Schroeder, Watson, and Young-Minor • Assistant Professors Alabi, Fennelly, Gussow, Harker, Heyworth, López, and Trefzer • Instructors Burkette, A. Gowdy, R. Gowdy, Hall, and Wirth • Writers-in-Residence Franklin and Hannah, and the John and Renée Grisham Emerging Southern Writer • Director of University Writing and Speech McCready

101. ENGLISH COMPOSITION I. Instruction in composition, grammar, and reading with particular emphasis on actual practice in writing. (3).

102. ENGLISH COMPOSITION II. Introduction to literature, with instruction in composition, grammar, and reading with particular emphasis on actual practice in writing. (3).

221. SURVEY OF WORLD LITERATURE TO 1650. Prose, poetry, and drama. (3).

222. SURVEY OF WORLD LITERATURE SINCE 1650. Prose, poetry, and drama. (3).

223. SURVEY OF AMERICAN LITERATURE TO THE CIVIL WAR. Prose, poetry, and drama. (3).

224. SURVEY OF AMERICAN LITERATURE SINCE THE CIVIL WAR. Prose, poetry, and drama. (3).

225. SURVEY OF BRITISH LITERATURE FROM THE BEGINNING THROUGH THE 18th CENTURY. Prose, poetry, and drama. (3).

226. SURVEY OF BRITISH LITERATURE FROM THE ROMANTIC PERIOD TO THE PRESENT. Prose, poetry, and drama. (3).

250. APPLIED WRITING. A practical course for students who desire additional instruction and experience in writing. Special emphasis on developing techniques of effective written communication. (3).

303. GREEK AND ROMAN TRAGEDY. Reading in English translation of the works of authors such as Aeschylus, Sophocles, Euripides, and Seneca. (Same as CLC 303). (3).

304. GREEK AND ROMAN COMEDY. Reading in English translation of the works of authors such as Aristophanes, Menander, Plautus, and Terence. (Same as CLC 304). (3).

305. TOPICS IN CLASSICAL MYTHOLOGY. Intensive study of a particular figure or topic in Greek and Roman mythology. (Same as CLC 305). (3).

307. SURVEY OF GREEK LITERATURE. (Same as CLC 307). (3).

310. WOMEN IN THE SOUTH. A study of the experience of women in the South as revealed primarily through their writings and other expressions. (Same as S ST 303, G ST 310, and HIS 336). (3).

311. BEGINNING FICTION WORKSHOP. An introduction to fiction through reading and writing short stories. (3).

313. INTRODUCTION TO LINGUISTICS. The study of human language. (Same as ANTH 313, LING 313, and MLLL 313). (3).

314. PHONOLOGY. Human speech sounds and the sound systems of languages. (Same as LING 314 and MLLL 314). (3).

315. MORPHOLOGY. Linguistic units of lexical meaning and grammatical and derivational function. (Same as LING 315 and MLLL 315). (3).

316. SYNTAX. Words interacting in larger units such as the sentence, as well as a survey of syntactic models. (Same as LING 316 and MLLL 316). (3).

317. BEGINNING POETRY WORKSHOP. An introduction to poetry through reading and writing poems. (3).

320. ADVANCED WRITING FOR MAJORS. A structured, writing-intensive workshop designed to prepare English majors to write analytical essays and interpret literary works in a variety of forms and genres. (3).

322. SURVEY OF AFRICAN AMERICAN LITERATURE FROM THE BEGINNING TO THE 20th CENTURY. Selected African American prose, poetry, and drama from early settlement to the 20th century. (Same as AAS 341). (3).

323. SURVEY OF AFRICAN AMERICAN LITERATURE OF THE 20th CENTURY. Selected African American prose, poetry, and drama of the 20th century. (Same as AAS 342). (3).

- 333. POETRY AND POLITICS AT ROME.** The relationship between politics and literature in ancient Rome, focused on works of central importance in the history of Latin literature. Readings to include drama, lyric, elegy, and satire as well as Vergil's *Aeneid* in English. (Same as CLC 333). (3).
- 340. RENAISSANCE EPIC.** Survey of 16th- and 17th-century epics with attention to the development of the form. (3).
- 341. RENAISSANCE DRAMA EXCLUSIVE OF SHAKESPEARE.** English drama from the period 1560 to 1642. (3).
- 351. CONTEMPORARY LITERATURE.** Readings in American and British literature since 1945. (3).
- 352. SELECTED TOPICS IN POPULAR LITERATURE.** Studies in less traditional literary forms and themes which reflect popular culture, such as science fiction, the "Western," the literature of war, etc. Content varies; may be repeated once for credit. (3).
- 353. INTRODUCTION TO FILM.** Study of film technique and terminology, as well as various approaches to film criticism. A lecture course with weekly showing of films. (3).
- 355. SOCIOLINGUISTICS.** Survey of language variation; quantitative and qualitative methodologies; societal norms for language behavior and attitudes toward speech. Same as LING 320. (3).
- 360. WOMEN IN LITERATURE.** A study of the images of women in British and American literature. Content will vary. (Same as G ST 360). (3).
- 365. GAY AND LESBIAN LITERATURE AND THEORY.** A study of the theoretical perspective involved in the analysis of gay and lesbian representations in literature and other media. (Same as G ST 365). (3).
- 368. SURVEY OF SOUTHERN LITERATURE.** The development of regional culture will be traced through Southern writers, with special emphasis on 20th century literature. (3).
- 371. AFRICAN LITERATURE.** A survey of the development of African literatures in the context of African history and of the political, social, and cultural forces that have influenced various African countries. (3).
- 372. SOUTH ASIAN LITERATURE.** A survey of the literatures of South Asia, from ancient Hindu and other writings to postcolonial literatures in the present. Accordingly, texts will include, but not be limited to, major Indian and Anglo-Indian writers. (3).
- 373. CARIBBEAN LITERATURE.** A survey of Caribbean literatures from pre-Columbian cultures to the present. Emphasis on the development of Caribbean literatures in the context of Caribbean history and of the political, social, and cultural forces that shaped different Caribbean societies. (3).
- 376. RENAISSANCE AND EARLY MODERN STUDIES.** Interdisciplinary approach to this era in European history through a study of its literature, religion, economic conditions, artistic and scientific achievements, as well as its politics, geographical exploration, colonization, and slave trade. Required of all Renaissance and Early Modern Studies minors but open to all students. (Same as HIS 376, MLLL 376). (3).
- 380. BRITISH LITERATURE OF THE ROMANTIC PERIOD.** Survey of the principal works of major authors of the Romantic Period in British literature (roughly 1789-1832). Authors to be covered may include William Blake, William Wordsworth, Samuel Taylor Coleridge, Matthew G. Lewis, Jane Austen, Lord Byron, Percy Bysshe Shelley, John Keats. (3).
- 385. SHAKESPEARE.** A study of the major plays. (3).
- 390. JUNIOR SEMINAR: MAJOR AUTHORS OF BRITISH LITERATURE.** Readings in British writers of literary significance, covering a range of history and genres. A writing-intensive course that includes literary terminology and research. Prerequisite: 6 hours of English survey courses at the 200 level. (3).
- 391. JUNIOR SEMINAR: MAJOR AUTHORS OF AMERICAN LITERATURE.** Readings in American writers of literary significance, covering a range of history and genres. A writing-intensive course that includes literary terminology and research. Prerequisite: 6 hours of English survey courses at the 200 level. (3).
- 392. JUNIOR SEMINAR: MAJOR AUTHORS OF WORLD LITERATURE.** Readings in world writers of literary significance, covering a range of history and genres. A writing-intensive course that includes literary terminology and research. Prerequisite: 6 hours of English survey courses at the 200-level. (3).
- 395. TOPICS IN ENGLISH ABROAD I.** Students do departmentally approved course work at a foreign university. May be repeated with permission of chair of the Department of English. (1-6).
- 396. JUNIOR SEMINAR: DRAMA.** Readings in genre and theory. A writing-intensive course that includes literary terminology and research. Prerequisite: 6 hours from the following courses: ENGL 221, ENGL 222, ENGL 223, ENGL 224, ENGL 225, or ENGL 226. (3).

- 397. JUNIOR SEMINAR: POETRY.** Readings in genre and theory. A writing-intensive course that includes literary terminology and research. Prerequisite: 6 hours from the following courses: ENGL 221, ENGL 222, ENGL 223, ENGL 224, ENGL 225, or ENGL 226. (3).
- 398. JUNIOR SEMINAR: LITERARY CRITICISM.** Readings in criticism and theory. A writing-intensive course that includes literary terminology and research. Prerequisite: 6 hours from the following courses: ENGL 221, ENGL 222, ENGL 223, ENGL 224, ENGL 225, or ENGL 226. (3).
- 401. ADVANCED ENGLISH GRAMMAR.** Morphology and syntax, with emphasis on traditional scholarly approaches to usage. (Same as LING 401). (3).
- 403, 404. BACKGROUND OF AMERICAN LITERARY CULTURE, 1800 TO THE PRESENT I, II.** American cultural ideas as reflected in literature. (3, 3).
- 405. CHAUCER.** The major works. (3).
- 408. SHAKESPEARE ON FILM.** The study of Shakespeare's plays in action through an analysis of film. (3).
- 410. THE NOVEL.** Representative novels, with attention to varieties of narrative. (3).
- 412. 20th CENTURY POETRY IN ENGLISH.** English and American poetry since 1900. (3).
- 414. RENAISSANCE POETRY.** Survey of English nondramatic poetry of the 16th and 17th centuries. (3).
- 418. WRITING EXPOSITORY PROSE.** Emphasis on nonfiction writing (for those who have shown some talent as writers). Prerequisite: consent of instructor. (3).
- 419. ADVANCED POETRY WORKSHOP.** Prerequisite: ENGL 317 or consent of instructor. (3).
- 420. CONTEMPORARY LITERARY THEORY.** Current issues and intellectual trends in literary theory. (3).
- 424. ADVANCED FICTION WORKSHOP.** Prerequisite: ENGL 311 or consent of instructor. (3).
- 425. MODERN AMERICAN DRAMA.** A lecture/discussion course on American Drama of the 20th century. (3).
- 426. MODERN BRITISH DRAMA.** British drama from the 20th century to the present. (3).
- 430. DISCOURSE PRAGMATICS.** Spoken language in context; discourse analysis and speech styles. (Same as LING 430 and MLLL 430). (3).
- 434. DIALECTOLOGY.** American English dialects with regard to region, ethnicity, gender, and social status. (Same as LING 435). (3).
- 435. MAJOR AUTHOR OF THE 18TH CENTURY.** Intensive study of the works of a major literary figure. Content varies; may be repeated once for credit. (3).
- 436. MAJOR AUTHOR OF THE 19TH CENTURY.** Intensive study of the works of a major literary figure. Content varies; may be repeated once for credit. (3).
- 437. MAJOR AUTHOR OF THE 20TH CENTURY.** Intensive study of the works of a major literary figure. Content varies; may be repeated once for credit. (3).
- 438. LANGUAGE AND GENDER.** (Same as GST 438, LING 438, and MLLL 438). (3).
- 439. SEMINAR ON SHAKESPEARE.** Intensive study of Shakespeare's plays in their cultural and historical context. Prerequisite: ENGL 385 or consent of instructor. (3).
- 440. STUDIES IN THE ROMANTIC PERIOD.** Content varies. May be repeated once for credit. (3).
- 441. COMPARATIVE BLACK LITERATURES.** A study of various Black literatures, including African, African-American, and African-Caribbean, in a comparative, socio-cultural context. (3).
- 442. LATINA AND LATINO LITERATURES.** Selected readings in Caribbean, Hispanic, Chicano/a, and other literatures by U.S. Hispanics. Emphasis on the development of distinct Latino/a literatures in the context of the history of Latin American immigrants in the United States and the forces of exclusion and assimilation that impact the shaping of different Latino/a identities. (3).
- 450. STUDIES IN 20TH-CENTURY BRITISH LITERATURE.** (3).
- 451. STUDIES IN CONTEMPORARY BRITISH FICTION.** (3).
- 455. STUDIES IN VICTORIAN LITERATURE.** (3).
- 456. STUDIES IN THE VICTORIAN NOVEL.** History and development of the genre, 1832-1900. (3).
- 457. RESTORATION AND 18TH-CENTURY BRITISH LITERATURE.** (3).
- 458. RESTORATION AND 18TH-CENTURY BRITISH DRAMA.** (3).
- 460. AMERICAN FICTION, 1914-1940.** Areas of focus include the development of American modernism, the proletarian novel, and other forms of narrative. (3).
- 461. STUDIES IN CONTEMPORARY AMERICAN FICTION.** (3).

- 462. THE AMERICAN NOVEL TO 1920.** Origins and development of the genre. (3).
- 463. WRITERS OF THE AMERICAN RENAISSANCE.** Authors may include Emerson, Thoreau, Hawthorne, Melville, Poe, and others. (3).
- 466. FAULKNER.** Reading and study of selected fiction. (3).
- 467. THE SOUTH IN FILM.** A historical examination of Southern culture as perceived in the American film. Comparative analysis of motion pictures, television plays, and their literary sources. (3).
- 468. TOPICS IN FILM STUDIES.** Advanced study of specific genres, historical periods, directors, or themes. Content varies; may be repeated once for credit. (3).
- 470. IRISH LITERATURE.** The development of a distinctively Irish literature in the 20th century, studied in the context of Irish history and of the political, social, and cultural forces that have shaped modern Ireland. (3).
- 471. THE IDEA OF THE POSTCOLONIAL.** Literature produced by writers in previously colonized countries, including the study of critical arguments suggesting that these texts contribute to a distinct literary theory. (3).
- 476. STUDIES IN SOUTHERN LITERATURE.** (3).
- 480. STUDIES IN A MAJOR AUTHOR OF THE RENAISSANCE.** Content varies; may be repeated once for credit. (3).
- 481. SPECIAL TOPICS IN RENAISSANCE LITERATURE.** Studies of a major theme or problem. Content varies; may be repeated once for credit. (3).
- 482. RENAISSANCE WOMEN WRITERS.** Study of works from the 16th and 17th centuries. (3).
- 494. SEMINAR ON LITERATURE AND GENDER.** Images of women and men in literature by women and men, the special role of the woman writer, recurrent formal and contextual convention in literature written by women, and feminist critical theory. Content varies; may be repeated for credit. (Same as G ST 494). (3).
- 495. TOPICS IN ENGLISH ABROAD II.** Students do departmentally approved course work at a foreign university. May be repeated with permission of chair of the Department of English. (1-6).
- 496. DIRECTED READING.** Independent study restricted to advanced majors. Topics, texts, and requirements will vary; substantial reading list and significant writing component required. See director of undergraduate English for further requirements. Prerequisite: consent of instructor. (3).
- 497. COMPREHENSIVE EXAMINATION PROJECT.** Required of all English majors. (0).
- 498. SEMINAR IN ENGLISH.** Intensive study of a major theme or movement in English, American, or world literature. Content varies; may be repeated once for credit. (3).
- 499. SENIOR THESIS.** A significant investigation under the supervision of a major professor. Prerequisite: senior standing. (3 or 6).
- 501. DESCRIPTIVE GRAMMAR.** A structural examination of English grammar, with special attention to usage on different levels, formal and informal, standard and nonstandard, written and spoken; emphasis on phonology, morphology, and descriptive theories of grammar. (Same as LING 501). (3).
- 502. HISTORICAL LINGUISTICS.** Study of words, speech languages, and language changes from the point of view of evolution in the course of time, particularly in Indo-European languages. (Same as LING 502). (3).
- 503, 504. OLD ENGLISH I, II.** The Old English language, with some attention to development of Modern; translation of Old English prose and poetry, including Beowulf. (3, 3).
- 505. HISTORY OF THE ENGLISH LANGUAGE.** The development of the language from Old English to the present with particular attention to phonology and morphology. (3).
- 506. SEMANTICS.** Study of word meaning in human languages, especially English, history, issues, and theories of semantics. Prerequisite: ENGL 401, 501, or 592. (Same as LING 509). (3).
- 520. TEACHING WRITING FOR THINKING.** This course examines current theories and practices of teaching writing. The course focuses on the process theory of writing to foster thinking and learning in subject areas, collaborative learning, and error analysis and grammar instruction. (3).
- 521. NON-FICTION WORKSHOP.** Direction of individual writing projects. Prerequisite: consent of instructor. (May be repeated once for credit). (3).
- 535. FICTION WORKSHOP.** Advanced workshop intended for graduate students. Prerequisite: ENGL 424 or consent of instructor. (3).
- 536. POETRY WORKSHOP.** Advanced workshop intended for graduate students. Prerequisite: ENGL 419 or consent of instructor. (3).

566. FAULKNER STUDIES. A study of the relationship between Faulkner's novels and the geography, history, and people of North Mississippi. (3).

588. WRITING THEORY. This course examines theories of rhetoric and composing as they conflict and converge to form our prevailing theories of writing. Following a brief survey of rhetorical theory, ancient to modern, the course focuses on contemporary theories of composing written discourse. (3).

592. MODERN ENGLISH GRAMMAR. Advanced treatment of syntactic structures with special attention to current interpretations; emphasis on morphology and generative transformational theories of syntax. Prerequisite: ENGL 401. (Same as LING 592). (3).

595. SEMINAR IN LINGUISTICS. Content varies. (Same as ANTH 595 and LING 595). (3).

599. SPECIAL TOPICS IN ENGLISH. Content varies. May be repeated once for credit. (3).

FAMILY AND CONSUMER SCIENCES—FCS

Associate Professor Diane Tidwell, interim chair • Lenoir Hall

Associate Professors Bomba, Knight, Tidwell, and Wachter • Assistant Professors Chang, Endo, Kwun, and Lambert • Instructor Gary

102. INTRODUCTION TO MERCHANDISING. An overview of the producers, manufacturers, and retailers of goods and services. Includes career exploration. (3).

150. INTRODUCTION TO THE FAMILY AND CONSUMER SCIENCES PROFESSION. Exploring personal philosophy, career choices, history, philosophy and mission of family and consumer sciences. (3).

201. TEXTILES. Study of textiles for specific uses. Emphasis on fiber, yarn, fabric, finish, design, care, performance, identification, rules, and regulations as applied to finished products. (3).

205. SOFT GOODS MARKETING. Evaluation of the basic components, material, construction of soft goods. Assessment of price/quality relationships in design, manufacture, promotion, and distribution of soft goods. Prerequisite: FCS 201. (3).

211. PRINCIPLES OF FOOD PREPARATION. Food principles and preparation techniques and their effects on food products. (2 lectures, 1 two-hour lab). (3).

215. INTRODUCTION TO HOSPITALITY MANAGEMENT. An overview of the hospitality industry from its beginning to projections for the future. A systems approach is used to survey each segment of this industry. (3).

302. DRESS WITHIN CULTURAL CONTEXT. Examine and discuss the impact of culture, society, the economy and psychology on the clothing consumption practices of individuals and groups in society. (3).

306. COSTUME HISTORY. A survey of costume and the social, cultural, political, and technological developments that affected fashion changes, from antiquity to the present. (3).

310. NON-STORE RETAILING. Investigation of goods and services, offered by non-store retail formats such as telemarketing, catalogs, television, and the Internet in meeting consumer needs and wants. Prerequisites: MKTG 351 and 367. (3).

311. NUTRITION. Fundamental principles of human nutrition; application to needs of individuals and families at all stages of the life cycle. (3).

323. HUMAN DEVELOPMENT ACROSS THE LIFE SPAN. Life span of human development including physical, intellectual, emotional, and social development; the needs of individuals throughout the life span; and the formation and maintenance of human relationships. (3).

325. FAMILY RELATIONS. A functional approach to family relationships. (3).

327. TOPICS IN HUMAN DEVELOPMENT. A study of the internal and external social processes impacting families, including public policies and ethical issues. Prerequisites: FCS 323, FCS 325, and MATH 115. (3).

328. CHILD DEVELOPMENT. The development of children from conception through prepuberty. Prerequisite: FCS 323. (3).

329. GENDER AND FAMILIES. An analysis of the intersection of gender and families. Prerequisites: FCS 325. Same as GS 329. (3).

- 343. SOCIOECONOMIC ASPECTS OF HOUSING.** Alternatives, decisions, and constraints in meeting family housing needs. Relationship of housing to the social, economic, and political systems of the culture. (3).
- 360. LEGAL ISSUES IN THE HOSPITALITY INDUSTRY.** Application of management theory and techniques to the hospitality industry as applied to the issues of law. Includes topics such as discrimination, tort, innkeeper liability to guests and contracts in the hospitality industry. Prerequisites FCS 215 and BUS 250. (3).
- 361. FRONT OFFICE ADMINISTRATION.** To provide students with a comprehensive working knowledge of hotel operations, policies, and procedures. (3).
- 363. FOODSERVICE PROCUREMENT.** Purchasing methods based on standards of quality, grade, care, and storage of food and nonfood supplies. Purchasing, installation, operation, and care of large foodservice equipment. Prerequisite: FCS 211. (3).
- 370. THE HOSPITALIZED CHILD.** Examine and discuss issues regarding child life in hospitals. (3).
- 403. NEW YORK TOUR.** New York tour targets trade associations, producers, manufacturers, retailers, and allied sectors that support merchandising careers. Student paid experience. Prerequisites: junior or senior standing, permission of instructor. (3).
- 410. FUNDAMENTALS OF CLINICAL DIETETICS.** An orientation to the profession of dietetics; includes types of services, nutrition assessment, introduction to therapeutic nutrition, requirements for dietetic registration, and responsibilities of practitioners. Prerequisites FCS 311, junior or senior standing. (3).
- 411. ADVANCED NUTRITION.** Scientific principles underlying specific nutrients and their functions in human metabolism. Review of current professional literature in nutrition. Prerequisites FCS 311, CHEM 371, and BISC 330 (3).
- 415. EXPERIMENTAL FOOD STUDY.** Experimental study of chemical and physical factors affecting standard food preparation procedures. (2 lectures, 1 two-hour lab). Prerequisite: FCS 211. (3).
- 420. MERCHANDISE MANAGEMENT.** Procedures for purchasing, reporting, and analyzing data crucial to success of the organization. Prerequisites: ACCY 201 (3).
- 421. GLOBAL TEXTILES AND APPAREL MARKETING.** Examination of trade in fiber, textile, and apparel within the global marketplace. Prerequisites: FCS 102, 201, 205; MKTG 367. (3).
- 422. ADMINISTRATION OF CHILD DEVELOPMENT PROGRAMS.** Issues, functions, and responsibilities involved in developing and implementing child care programs. Included are types of programs, staffing, scheduling, environmental design, equipment, evaluation, and financing. Prerequisite: FCS 328. (3).
- 424. INTERNATIONAL RETAILING.** The macro and micro factors associated with a retail strategy in pursuing international markets. Prerequisites: FCS 102; BUS 271; ECON 202 and 203; MKTG 351 and 361. (3).
- 425. ADOLESCENTS AND FAMILIES.** The social processes, changes, experiences, expectations, and requirements of families with adolescents in our society. Prerequisites: FCS 323 and 325. (3).
- 427. AGING AND FAMILIES.** Social processes, changes, experiences, expectations, and requirements of families with aging members. Prerequisites: FCS 323 and 325. (3).
- 443. CONSUMER PROBLEMS.** Budgeting income and purchasing consumer goods to achieve family goals. (3).
- 444. STRATEGIC ISSUES IN SERVICES.** Merchandising strategy in a dramatically changing, intensely competitive marketplace, focuses on key concepts in strategic retailing, success requirements, environment, and consumer tastes. Prerequisites: junior or senior standing, FCS 102, BUS 271, MKTG 361 and 367, MGMT 371. (3).
- 451. PARENTING ACROSS THE LIFE SPAN.** A study of how parents teach, guide, and influence throughout the life span. Topics include parenting as a process, parental rights and responsibilities, parental roles over the life cycle, and variations in parenting practices. Prerequisites: FCS 323 and FCS 325. (3).
- 461. FOODSERVICE SYSTEMS MANAGEMENT I.** Management of foodservice systems and the interrelationships among foodservice systems components. (3).
- 462. QUANTITY FOOD PRODUCTION AND SERVICE.** Principles and fundamentals of quantity food production and service in commercial and institutional operations, menu planning, recipe standardization, human resource utilization, hazard analysis of critical control points, and costing. Prerequisite: FCS 211. (2).
- 464. HOSPITALITY SERVICES PROMOTION.** Application of marketing theory and practices to the hospitality industry. Prerequisite MKTG 351. (3).

- 465. FOODSERVICE SYSTEMS MANAGEMENT II.** A continuation of the study of foodservice systems begun in FCS 461. Prerequisite FCS 461. (3).
- 467. HOSPITALITY SERVICES FINANCIAL MANAGEMENT.** Application of financial management theory and techniques to the hospitality industry. (3).
- 468. HOSPITALITY MANAGEMENT STUDY TOUR.** A student-paid tour of selected hospitality centers, including domestic and international professional exhibitions, seminars, and conferences. Prerequisite: consent of instructor. (1-6).
- 469. ORIENTATION TO CHILD NUTRITION MANAGEMENT.** Topics include an overview of child nutrition programs, the role and responsibilities of a director, the relationship between local policies, state/federal regulations, and a variety of management topics. (3).
- 472. QUANTITY FOOD PRODUCTION AND SERVICE LABORATORY.** Laboratory to accompany FCS 462. Corequisite: FCS 462 and consent of instructor. (2).
- 473. FAMILY LIFE EDUCATION.** A study of the general philosophy and broad principles of family life education. Prerequisites FCS 323 and 325, FCS majors with senior standing. (3).
- 474. STUDY TOUR IN HUMAN DEVELOPMENT.** A student-paid tour of sites or conferences related to human development. Prerequisite: consent of instructor. (3).
- 481. MERCHANDISING INTERNSHIP.** Individually obtained work experience in one or more facets of the merchandising industry. The work experience must be approved by the student's adviser. Prerequisites: Career Services Orientation, résumé, mock interview, FCS 102, 201, 205, 421, 444; MKTG 351, 361, 367; MGMT 371; instructor consent, and 2.00 GPA in prerequisite courses. (3).
- 482. PRACTICUM IN HUMAN DEVELOPMENT.** Individually planned work in business or agency relating to human development. Prerequisites include senior standing as an FCS major in the human development emphasis area, the consent of the instructor, and a minimum GPA of 2.5 in FCS course work. (3).
- 483. PRACTICUM IN DIETETICS AND NUTRITION.** Individually planned work/field experience in one or more facets of the dietetics and nutrition area. Experiences must be approved by the student's adviser. Prerequisites: FCS 311, 417, 461, 462, consent of instructor and GPA of 2.00 in prerequisite courses. (3).
- 484. PRACTICUM IN HOSPITALITY MANAGEMENT.** Individually planned work experience in one or more facets of the hospitality industry. The work experience must be approved by the student's adviser. Prerequisites: senior standing and completion of four of the following courses with GPA of 2.00 or higher in FCS 361, 461, 462, 463, 467, and MGMT 371. (3).
- 493. INDIVIDUAL/GROUP STUDY.** Development of special projects under supervision. Prerequisite: permission of instructor. (1-6).
- 511. MEDICAL NUTRITION THERAPY.** Modification of the normal diet to meet nutritional needs in the prevention and treatment of disease. Prerequisite FCS 411. (3).
- 515. NUTRITION, WEIGHT MANAGEMENT, AND EATING DISORDERS.** Study of energy metabolism and principles of human nutrition applied to weight control. Issues concerning the development and health effects of eating disorders will be examined. Prerequisite: FCS 311 or equivalent. (3).
- 516. NUTRITION IN AGING.** Nutritional needs of the aged, including concepts of menu selection and preparation. Psychological, physiological, and socioeconomic factors affecting dietary problems and practices among the elderly. Prerequisite: FCS 311 or equivalent. (3).
- 517. COMMUNITY NUTRITION.** Nutrition services and problems in the community. Supervised experience in methods for determining and implementing action programs in nutrition education. Prerequisite FCS 311. (3).
- 521. FAMILY SEMINAR.** Examination of issues that face families across the life cycle, as well as public policy issues that impact families. (3).
- 535. HUMAN SEXUALITY.** The physiological, psychological, sociological, and ethical aspects of sexuality are addressed. Topics include, but are not limited to, the human sexual system, sexual response, gender identity and sexuality, sexual behavior and fulfillment, sexual expression, sexual value systems, sexual diseases, and sexual ethics. (3).
- 550. SEMINAR IN ENTREPRENEURSHIP.** Implementation of a business plan. May require student-paid overnight travel to a regional center. Prerequisites: FCS 102; MKTG 361, 367; BUS 271; ACCY 291, 202; senior standing or permission of instructor. (3).
- 566. HUMAN RESOURCE DEVELOPMENT IN SERVICES.** Examination of human resource theories and techniques as they apply to service industries. Emphasis is placed on recruitment, selection,

and training and development of human resources for educational, health care, hospitality, and human services organizations. Prerequisite: FCS 461. (3).

571. MARRIAGE AND FAMILY THERAPY. Study of historical and contemporary contexts of family therapy and prominent family therapy models. (3).

593. INDIVIDUAL STUDY. Development of special projects under supervision. Prerequisite: permission of instructor. (1-6).

595. INTERNATIONAL STUDY TOUR. A student paid tour of major European centers, related industries, markets, museums, cultural and historical points of interest. Requires permission of instructor, passport, visa (if applicable) and immunization shots. Prerequisites: junior or senior standing, permission of instructor. (3).

618. MATERNAL, CHILD, AND ADOLESCENT NUTRITION. Principles of human nutrition applied to pregnancy and the infant/child and adolescent stages of the life cycle. Characteristics of normal growth and development are presented as well as special needs and problems. Prerequisite: FCS 311 or equivalent. (3).

FINANCE

Associate Professor R. Phil Malone, chair • 337 Holman Hall

Associate Professors Cox, Cyree, Hawley, B. Van Ness, R. Van Ness, and Walker •
Assistant Professors Epermanis and Schwartz

Finance–FIN

303. MONEY AND BANKING. Prerequisite: C minimum in ECON 203. (Same as ECON 303). (3).

331. BUSINESS FINANCE I. Principles of business finance, with emphasis on financial analysis, investment decisions, cost of capital, and procurement of funds. Prerequisite: C minimum in ECON 202 and ECON 203, C minimum in BUS 230, and completion of ACCY 202. (3).

333. MONETARY AND BANKING POLICY. Commercial and central bank functions in monetary management. Also, principles and practices involved in the asset management, liability management, and capital planning areas of the commercial bank. Corequisite: FIN 303 or ECON 303. (3).

334. INVESTMENTS. Survey of securities and securities markets; risk and yield; valuation; forecasting; and portfolio management. Prerequisite: C minimum in BUS 230. Corequisite: 331. (3).

339. PERSONAL FINANCE. Financial decisions confronting individuals: budgeting; taxes; credit and borrowing; insurance; housing and investing. (3).

341. RISK AND INSURANCE. Basic principles of risk management and insurance; recognition, evaluation, and treatment of risk. An overview of the field. (3).

342. LIFE AND HEALTH INSURANCE. Addresses the concepts and analytical tools necessary to protect against the economic catastrophe caused by loss of life or health. Special emphasis is placed on business insurance and estate planning. Offered only during the fall semester. Prerequisite/corequisite: FIN 341. (3).

351. PRINCIPLES OF REAL ESTATE. A study of principles of land economics, the law dealing with property rights, agency, contracts and transfer of title; Mississippi Licensing Law, the Code of Ethics, and basic mathematics pertaining to the real estate industry. (3).

353. REAL ESTATE VALUATION AND APPRAISAL. A study of the theories of value as applied to both residential and income properties, determinants of value, underlying principles of valuation, and consideration of selected problems in appraisal with emphasis on residential property. Offered only during the fall semester. (3).

355. REAL ESTATE FINANCE AND MORTGAGE BANKING. A study of principles and methods of financing real estate, sources of funds, types and contents of financing instruments, and the role of various institutions, both private and governmental. Offered only during the spring semester. Prerequisite: C minimum in FIN 331. (3).

431. BUSINESS FINANCE II. Problems and cases in financial decision making with attention given to acquisition and management of assets, cost of capital, and procurement of funds. Prerequisites: C minimum in FIN 331 and completion of ACCY 301. (3).

441. COMMERCIAL PROPERTY INSURANCE. Managing the corporate risks of destroyed or damaged property and resulting losses of business income. Loss control and commercial and

commercial insurance are the primary risk management methods studied. Offered only during the fall semester. Prerequisite/corequisite: FIN 341. (3).

442. COMMERCIAL LIABILITY INSURANCE. Addresses corporate losses caused by liability lawsuits. Legal liability for on-premises accidents or illnesses, transportation accidents, product defects, employee disability and professional errors. Risk-handling techniques include loss control, retention funds, and insurance. Prerequisite/corequisite: FIN 341. Offered only during the spring semester.

445. INTERNSHIP IN INSURANCE AND RISK MANAGEMENT. On-the-job experience with a firm engaged in insurance and/or risk management. As well as performing job duties, students will analyze the firm's operations, management, strategic plans, and growth prospects. Prerequisites: FIN 341 and consent of instructor. (3-6).

451. REAL ESTATE LAW. A consideration of the aspects of law and regulation at various levels of government applicable to real estate transactions, types of property interests, transfer instruments, and the role of the real estate agent. Prerequisite: BUS 250. (3).

531. BUSINESS FINANCE TOPICS. Theory and advanced principles of finance with emphasis upon the use of modern techniques in making business decisions. Prerequisite: C minimum in FIN 331. May be repeated once for credit with the consent of the chair. (3).

533. SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT. Impact of economic factors and security markets upon security value; risk and return in efficient portfolios. Prerequisites: C minimum in FIN 331, and completion of FIN 334 and ACCY 301. (3).

534. MANAGING FINANCIAL INSTITUTIONS. Loan, investment, and fund-raising problems of commercial finance companies and factors, savings and loan associations, mutual savings banks, personal loan companies, and public lending agencies. (3).

537. BANK MANAGEMENT I. Principles, problems, practices, procedures, and regulations involved in the commercial, real estate, and installment lending areas of the commercial bank. Lecture and case problems. Offered only during the fall semester. Prerequisite: FIN 333. (3).

538. BANK MANAGEMENT II. Principles, problems, practices, and procedures involved in the investment, trust, safekeeping, safe deposit, auditing, operations, marketing, and international areas of the commercial bank. Lecture, case problems, and bank simulation. Offered only during the spring semester. Prerequisite: FIN 537. (3).

542. CORPORATE RISK MANAGEMENT. Corporate risks and the methods for handling them. Covers losses caused by natural disasters, legal liability suits, and financial price changes. Risk management methods include self-retention funding, loss prevention, insurance, and hedging contracts. (3).

553. ADVANCED INCOME APPRAISAL. An advanced study of appraising principles, procedures, and applications with emphasis on income property capitalization techniques. Offered only during the spring semester. Prerequisite: C minimum in FIN 331 and completion of FIN 351. (3).

555. REAL ESTATE INVESTMENT ANALYSIS. An application of investment principles and techniques of real estate, concentrating on the determination of the economic feasibility of real estate investments and the effects of financing and income taxes upon investment profitability. Offered only during the fall semester. Prerequisite: C minimum in FIN 331 and completion of FIN 351. (3).

561. FINANCIAL STATEMENT ANALYSIS. Theory and advanced principles of finance with emphasis upon the use of the modern techniques in making business decisions. Prerequisites: C minimum in FIN 331; ACCY 201, 202, and 301, ECON 202, 203, and C minimum in BUS 230. (3).

568. INTERNATIONAL FINANCE. Introduction to the financial problems of foreign operations. Foreign exchange, transfer of funds, banking services, international financial institutions, and investment decisions with major emphasis upon operational and financial problems of multinationals. Prerequisite: consent of instructor. (3).

581. FUTURES, OPTIONS, AND SWAPS. Offers a survey of the market for derivative financial instruments, i.e., the market for futures, options, and swaps. Provides a balanced mix of institutional, theoretical, and applied knowledge about how these instruments are designed, priced, and used in practice. Prerequisites: C minimum in FIN 331 and FIN 334. (3)

FORENSIC CHEMISTRY *See the Department of Chemistry and Biochemistry.*

FRENCH *See the Department of Modern Languages.*

GENDER STUDIES—G ST

Dr. Mary Carruth, director • Sarah Isom Center for Women • 203 Johnson Commons

103. WOMEN IN ANTIQUITY. An introduction to the history and culture of ancient Greece and Rome through a consideration of the role and status of women in the classical world. Lectures with slides will be supplemented by readings of ancient texts in translation, in addition to textbook assignments. (Same as CLC 103). (3).

201. WOMEN, GENDER, AND SOCIETY. Introduction to the growing body of research available from many disciplines for the study of women. Comparison of traditional and feminist interpretations of the nature of women, their capabilities, and their roles in society. (3).

301. GENDER AND CULTURE. A study of gender roles within traditional and popular culture. The specific content of the course may vary in different semesters. Possible emphases might include women in the arts, women in film, women in the media, and women in popular culture. (3).

302. HISTORY OF CULTURE. Origins of culture traced by means of archaeological evidence and presented to show the continuity of social life from basic human beginnings to present-day civilization. (Same as ANTH 301). (3).

303. THE FAMILY. The American family as an institution and a group of interacting persons; the nature and problems of courtship, husband-wife, and parent-child relationships. Prerequisite: SOC 101, or junior or senior standing. (Same as SOC 301). (3).

310. WOMEN IN THE SOUTH. A study of the experience of women in the South as revealed primarily through their writings and other expressions. (Same as ENGL 310). (3).

311. WOMEN AND THE GODDESS IN EASTERN RELIGION. Exploration of Goddess figures and the social roles of women in the Hindu, Buddhist, and Taoist traditions. (Same as REL 311). (3).

312. WOMEN IN UNITED STATES HISTORY. History of the struggle for equality in U.S. politics and culture. (Same as HIS 312). (3).

325. SOCIOLOGY OF GENDER. Examines the social and cultural construction of gender differences in contemporary U.S. society. (Same as SOC 325). (3).

326. SAINTS AND SEXUALITY. A survey of holy figures within Christianity and Islam with an emphasis on gender and the body. (Same as REL 325). (3).

329. GENDER AND FAMILIES. An analysis of the intersection of gender and families. (Same as FCS 329). (3).

333. GENDER THEORY. An interdisciplinary course which analyzes various ways in which western society has constructed gender roles and identities. (3).

336. WOMEN IN SOUTHERN HISTORY. A historical survey of Southern women with emphasis on research through documentary sources and oral history. (Same as HIS 336). (3).

338. MASCULINITIES AND FEMININITIES IN AMERICAN CULTURE. An analysis of changing views of the masculine and the feminine in American culture since 1607. Class, racial, and ethnic differences will be emphasized. (Same as HIS 338). (3).

344. WOMEN AND WORLD POLITICS. A comparative analysis of women's political roles in countries around the world. (Same as POL 344). (3).

346. GENDER AND POWER IN LATIN AMERICA. Examination of gender roles in Latin American history. (Same as HIS 346). (3).

352. HEMISPHERIC VOICES: WOMEN WRITERS OF THE AMERICAS. Study of the development of feminist thought in the Americas through translations of works by women writers from North, Central, and South America, and the Caribbean. (Same as MLLL 352). (3).

360. WOMEN IN LITERATURE. A study of the images of women in British and American literature. Content will vary. (Same as ENGL 360). (3).

362. AFRICAN AMERICAN WOMEN'S HISTORY. An introduction to African American women's history, exploring the epistemology and the scholarship of the field. (Same as AAS 362). (3).

365. GAY AND LESBIAN LITERATURE AND THEORY. A study of the theoretical perspective involved in the analysis of gay and lesbian representations in literature and other media. (Same as ENGL 365). (3).

366. WOMEN OF THE JUDEO-CHRISTIAN BIBLE. A critical study of the significant women in the sacred literature of the Western prophetic tradition. (Same as REL 366). (3).

380. SOCIETY AND THE SEXES IN MODERN EUROPE. An exploration of the changing roles of European women and men since the French Revolution in 1789. (Same as HIS 380). (3).

390. WOMEN AND PHILOSOPHY. A survey of contemporary theories and philosophical issues centering on women and feminism. (Same as PHIL 390). (3).

395. TOPICS IN GENDER STUDIES ABROAD. Students do approved course work at a foreign university. May be repeated with permission of the director. (1-6).

399. SPECIAL TOPICS IN GENDER STUDIES. Content varies. Prerequisite: consent of instructor. (May be repeated once for credit with permission of director). (3).

438. LANGUAGE AND GENDER. A comparative view of gender differences in language forms, using both American English research and sociocultural studies from other language groups. (Same as MLLL 438). (3).

482. RENAISSANCE WOMEN WRITERS. Study of works from the 16th and 17th centuries. (Same as ENGL 482). (3).

494. SEMINAR ON LITERATURE AND GENDER. Images of women and men in literature by women and men, the special role of the woman writer, recurrent formal and contextual convention in literature written by women, and feminist critical theory. Content varies; may be repeated for credit. (Same as ENGL 494). (3).

498. SPECIAL TOPICS IN GENDER STUDIES. Content varies and may be repeated once with permission from the director of Gender Studies. (3).

499. DIRECTED READINGS IN GENDER STUDIES. Individual research into selected issues in gender studies; content varies. Prerequisite: consent of instructor. (May be repeated once for credit with permission of director). (3).

599. DIRECTED READINGS IN GENDER STUDIES. Individual research into selected issues in gender studies; content varies. Prerequisite: consent of instructor. (May be repeated once for credit with permission of director). (3).

Cross-listed courses include:

103. WOMEN IN ANTIQUITY. (Same as CLC 103). (3).

302. HISTORY OF CULTURE. (Same as ANTH 301). (3).

303. THE FAMILY. (Same as SOC 301). (3).

310. WOMEN IN THE SOUTH. (Same as ENGL 310). (3).

311. WOMEN AND THE GODDESS IN EASTERN RELIGION. (Same as REL 311). (3).

312. WOMEN IN UNITED STATES HISTORY. (Same as HIS 312). (3).

325. SOCIOLOGY OF GENDER. (Same as SOC 325). (3).

326. SAINTS AND SEXUALITY. (Same as REL 325). (3).

336. WOMEN IN SOUTHERN HISTORY. (Same as HIS 336). (3).

338. MASCULINITIES AND FEMININITIES IN AMERICAN CULTURE. (Same as HIS 338). (3).

346. GENDER AND POWER IN LATIN AMERICA. (Same as HIS 346). (3).

352. HEMISPHERIC VOICES: WOMEN WRITERS OF THE AMERICAS. (Same as MLLL 352). (3).

360. WOMEN IN LITERATURE. (Same as ENGL 360). (3).

365. GAY AND LESBIAN LITERATURE AND THEORY. (Same as ENGL 365). (3).

380. SOCIETY AND SEXES IN MODERN EUROPE. (Same as HIS 380). (3).

390. WOMEN AND PHILOSOPHY. (Same as PHIL 390). (3).

482. RENAISSANCE WOMEN WRITERS. (Same as ENGL 482). (3).

494. SEMINAR ON LITERATURE AND GENDER. (Same as ENGL 494). (3).

GEOLOGY AND GEOLOGICAL ENGINEERING

Professor R.P. Major, chair, 118 Carrier Hall

Professor Aughenbaugh • Associate Professors Davidson, Easson, and Kuzmaul • Assistant Professors Holt and Panhorst

Geology–GEOL

101. PHYSICAL GEOLOGY. Classical introduction to Earth science and the physical and chemical processes that affect the Earth. Satisfies science requirement of core curriculum when taken in conjunction with GEOL 111. Will not count for credit if GEOL 104 or 105 is counted. Not applicable to major or minor programs in geology or geological engineering. (3).

102. HISTORICAL GEOLOGY. Classical introduction to Earth science and the historical development of the Earth and its life. Satisfies science requirement of core curriculum when taken in conjunction with GEOL 112. Not applicable to major program in geology and geological engineering. (3).

103. EARTH DYNAMICS. An integrated study of the process-response relationships between plate tectonics and geological processes through time. Required of geology and geological engineering majors. (5).

104, 105. ENVIRONMENTAL GEOLOGY I, II. Introduction to the relationship between humans and the geologic environment, including geologic hazards, natural resources, and waste disposal problems. Satisfies science requirement of core curriculum when taken in conjunction with GEOL 114, 115. Will not count for credit if GEOL 101 is counted. Not applicable to major or minor programs in geology. GEOL 104 is prerequisite for GEOL 105. (3, 3).

107. INTRODUCTION TO OCEANOGRAPHY. Qualitative introduction to ocean circulation, properties of seawater, waves, tides, and shoreline evolution. (Not applicable to major programs in geology or geological engineering). (3).

111. PHYSICAL GEOLOGY LABORATORY. Corequisite: GEOL 101. (1).

112. HISTORICAL GEOLOGY LABORATORY. Corequisite: GEOL 102. (1).

114, 115. ENVIRONMENTAL GEOLOGY LABORATORY I, II. Corequisite: GEOL 104, 105. (1, 1).

221. MINERALOGY. Crystallography, crystal chemistry, and minerals; determination by physical and chemical properties. Prerequisite: GEOL 103. (3 lecture, 2 lab hours). (4).

222. ELEMENTARY PETROLOGY. Petrographic and hand-specimen identification of igneous, sedimentary, and metamorphic rocks, lithologic classification, and the role of plate tectonics in petrogenesis. Prerequisite or corequisite: GEOL 221. (3 lecture, 2 lab hours). (4).

303. STRUCTURAL AND TECTONIC GEOLOGY. Geometric and genetic classification of both macro- and micro-structural types and their interrelations with crustal tectonics. Prerequisite: GEOL 222. (2 lecture, 2 lab hours). (3).

305. GEOMORPHOLOGY. Introduction to concepts of landform genesis. Prerequisite or corequisite: GEOL 103. (2 lecture, 2 lab hours). (3).

309. INVERTEBRATE PALEONTOLOGY. The classification, morphology, and paleoecology of invertebrate fossils. Prerequisite: GEOL 103. (3 lecture, 2 lab hours). (4).

314. SEDIMENTOLOGY AND STRATIGRAPHY. Study of the principles of sediment and sedimentary rock formation, transport, classification, and depositional environments, as well as the development of stratigraphic sequences and modern and traditional methods of stratigraphic correlation. Prerequisite: GEOL 222 or consent of instructor. (3 lecture, 2 laboratory hours). (4).

406. PETROLOGY. The genesis of each of the three major rock groups; an in-depth examination using optical methods. Prerequisite: GEOL 222. (2 lecture, 4 lab hours). (4).

410. COASTAL AND REEF DYNAMICS. Taught as study abroad only. An intermediate level course designed to acquaint the student with the dynamics of the physical and biological systems that have formed and are forming the coastal, caye, and reef areas of Belize, Central America. Prerequisite: Consent of instructor. (3).

420. OPTICAL MINEROGY. Use of the petrographic microscope to study the optical properties of rock-forming minerals. Prerequisite: GEOL 222 (2 lecture, 2 lab). (3).

500. GEOGRAPHIC INFORMATION SYSTEMS. Geographic Information Systems are combinations of computer software, hardware, and database (maps). These systems are used to analyze and display geographical information necessary for government and industrial planning. Prerequisite: GEOL 305, or consent of instructor. (2 lecture, 2 lab). (3).

505. HYDROGEOLOGY. Groundwater hydrology for geologists. Prerequisite: GEOL 221, 222, 303, 313, or consent of instructor. (4).

506. ADVANCED PETROLOGY. The genesis of each of the three major rock groups by use of general collections and detailed suites of rocks and by classroom lecture. (4).

515. DIRECTED STUDIES. Individual investigation of an original problem either as a senior research problem or a graduate research problem for nonthesis credit. (May be repeated for credit). (1-3).

530. GEOLOGY FIELD STUDIES. Field projects for graduate students. Prerequisite: GEOL 221, 222, 303, 313, or consent of instructor. (3).

531. PHYSICAL MARINE GEOLOGY.⁵ Physical processes at work on the shores of Mississippi Sound. Prerequisite: GEOL 315. (3).

532. CHEMICAL MARINE GEOLOGY.⁵ Supervised research in chemistry of the waters of Mississippi Sound; geochemistry of the bottoms beneath those waters. Prerequisites: GEOL 301 and P CHEM 105, 106, 115, 116. (3).

535. GEOCHEMISTRY. Application of chemical principles to geologic problems; crystal chemistry. Prerequisite: GEOL 221, CHEM 106, 333, or consent of instructor. (3).

545. GEOSYSTEM ANALYSIS. Application of conceptual, geometrical, and mathematical model theory to the analysis of geological systems. Prerequisites: GEOL 222, 309, 313, 315, MATH 475. (Same as G E 545). (3).

550. OCEANOGRAPHY AND MARINE GEOLOGY. Advanced study of the principles of ocean basin tectonics, seawater composition, waves, tides, currents, and marine and coastal marine sedimentation. Prerequisite: GEOL 314 or consent of instructor. (3).

555. GEOLOGY AND GEOLOGICAL ENGINEERING SEMINAR. A weekly seminar course in diverse earth science subjects for senior and graduate earth science majors. Prerequisite: senior or graduate status. (May be repeated for credit). (Z grade). (1).

⁵ Offered summers only at Gulf Coast Research Laboratory.

Geological Engineering–GE

234. INTRODUCTION TO GEOLOGICAL ENGINEERING FIELD METHODS. Instruction in the use of geological field instruments and geological engineering field technique. Prerequisite: GEOL 103. (1).

305. GEOMECHANICS. Properties and behavior of earth materials and their geological engineering applications to problems and design in geotechnics, mining, and petroleum. Prerequisite: ENGR 312. (2 lecture, 2 laboratory hours). (3).

402. PROFESSIONALISM IN GEOLOGICAL ENGINEERING. Overview of professionalism in geological engineering, including such topics as ethics, communication, legal aspects, and public interface. Guest speakers. Senior standing. (1).

405. ENGINEERING GEOPHYSICS. The application of geophysical methods and techniques to subsurface engineering investigations. (3).

413. PROBABILITY AND STATISTICAL ANALYSES IN ENGINEERING DESIGN. Introduction to probability, statistics, uncertainty, and reliability. Application of common continuous and discrete probability distributions. Design under uncertainty and elementary decision analysis. Simulation of random variables. Applications in natural and man-made materials, hydrologic and geological conditions and other natural processes, and engineering design. (Same as CE 453). Prerequisite: MATH 262. (3).

415. PETROLEUM GEOLOGY. Development of petroleum exploration programs based on stratigraphic, structural, and/or geochemical data. Prerequisite: GEOL 313, 411 or consent of instructor. (3).

420. SUBSURFACE SITE CHARACTERIZATION. Coring, logging, introduction and application of geophysical methods, sampling, and penetrometer testing. Applications require preparation of quality assurance and control procedures, maps, cross sections, and oral and written reports. Prerequisite: senior standing. (4).

- 421. GEOLOGICAL ENGINEERING DESIGN.** Geological engineering design by the application of rock mechanics, soil mechanics, geology, geophysics, remote sensing and hydrology to geological and engineering problems. The taking of the national Fundamentals of Engineering (FE) examination is a requirement of this course. Prerequisite: GE 420. (4).
- 430. GEOLOGICAL FIELD STUDIES I.** Application of geological engineering and geology to special study field problems. Prerequisite: consent of instructor. (4).
- 431. GEOLOGICAL FIELD STUDIES II.** Application of geological engineering and geology to special study field problems. Prerequisite: consent of instructor. (4).
- 435. FIELD CAMP-GEOLOGICAL ENGINEERING.** Four weeks of geological engineering mapping of geological formations and man-made excavations in the field. Prerequisite: consent of instructor. (3).
- 437. GEOLOGICAL ENGINEERING DESIGN FIELD CAMP.** Geological engineering design problems at the South Dakota Consortium's Black Hills Field Station. Prerequisite: consent of instructor. (3-6).
- 440. ROCK MECHANICS.** The physical and engineering properties of rocks and rock-like materials; classification, strength, deformation, hydraulic aspects, geostresses, effects of discontinuities and geologic structures. Geological engineering application to geotechnics, petroleum and mining problems and design. Prerequisite: consent of instructor. (2 lecture, 2 lab hours). (3).
- 450. HYDROGEOLOGY.** The theory and geology of the flow of ground water. Engineering principles and the design of wells for the production or injection of fluids from or into subsurface aquifers. Prerequisite: consent of instructor. (3 lecture, 2 lab hours). (4).
- 460. FUNDAMENTALS OF WASTE MANAGEMENT.** The fundamentals of managing and disposing of waste materials. Emphasis on the geological and geotechnical aspects of disposal by burying in the subsurface, and on elements of geophysics. Prerequisite: consent of instructor. (3).
- 470. INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS).** Geographic information systems (GIS) are computer systems of holding and using information describing places on the Earth. These systems used are for industry and government to manage and analyze environmental, engineering, and natural resource information. Prerequisite: consent of instructor. (2 lecture, 2 lab hours). (3).
- 490. DIRECTED STUDIES AND PROJECTS.** Individual studies and/or projects for undergraduates on specific topics. (1-3).
- 500. INTRODUCTION TO GEOCHEMISTRY I.** Application of chemical principles to geological problems. Prerequisite: GEOL 221, 222, CHEM 106, 333 or ENGR 320, 321, or consent of instructor. (3).
- 501. INTRODUCTION TO GEOCHEMISTRY II.** Application of chemical principles to geological problems. Prerequisite: G E 500. (3).
- 502. CONSTRUCTION GEOLOGICAL ENGINEERING.** Design and construction procedures for geology-related problems in heavy construction. (3).
- 503. ENVIRONMENTAL GEOCHEMISTRY.** Chemical interaction between water and aquifer minerals, organic minerals, and contaminants. Prerequisite: CHEM 106. (3).
- 504. ENVIRONMENTAL GEOCHEMISTRY LAB AND FIELD METHODS.** Water quality measurement and evaluation for natural, contaminated, and industrial waste water. Prerequisite: CHEM 106. (1-2).
- 506. GEOMECHANICS FOR GEOLOGISTS.** Application of geomechanics to geological problems. Prerequisite: consent of instructor. (3).
- 507. REGIONAL GEOLOGICAL ENGINEERING.** Geological engineering problems associated with each area of the United States. Prerequisite: consent of instructor. (3).
- 510. REMOTE SENSING.** Theory and principles of remote sensing technology; mission design and analysis of remotely sensed data, given cost and technological constraints, for geologic applications. Prerequisite: consent of instructor. (1 lecture, 4 lab hours). (3).
- 511. SPATIAL ANALYSIS.** GIS analysis of the relationships of mapped features. Course will include application and integration of GIS, image processing, and mathematical models. Prerequisite: GEOL 500 or GE470 or consent of instructor. (3).
- 513. ECONOMIC GEOLOGY.** Study of the formation and classification of ore deposits; exploration techniques; evaluation of reserves; and extraction techniques. Prerequisites: GEOL 222 and GEOL 303. (3).
- 520. GEOLOGY AND GEOLOGICAL ENGINEERING COMPUTER APPLICATIONS.** The use of computer programs for earth science applications. Prerequisite: GEOL 221, 222, 313, 315, or consent of instructor. (3).

525. ENGINEERING SEISMOLOGY. Origin of earthquakes, their effects on structures and the selection of ground-motion parameters for earthquake-resistant design. Prerequisite: consent of instructor. (3).

530. ADVANCED GEOMECHANICS. Applications of the principles of geomechanics to engineering problems dealing with earth materials. (3).

535. ADVANCED ROCK MECHANICS. The application of mechanics to solving problems in rock engineering for both surface and underground conditions. (3).

545. GEOSYSTEM ANALYSIS. Application of conceptual, geometrical, and mathematical model theory to the analysis of geological systems. Prerequisite: GEOL 222, 309, 313, 315, MATH 475. (Same as GEOL 545). (3).

560. WASTE DISPOSAL I. An introduction to the growing problem of managing and disposing of waste products generated by society. (3).

577. GEOPHYSICS I. Gravity and magnetic theory and methods. Prerequisite: consent of instructor. (Same as ENGR 577). (3).

579. GEOPHYSICS II. Seismic and electrical theory and methods of subsurface investigation. Prerequisite: consent of instructor. (Same as ENGR 579). (3).

GERMAN *See the Department of Modern Languages.*

GOVERNMENT *See the Department of Political Science.*

GREEK *See the Department of Classics.*

GUIDANCE *See the Department of Leadership and Counselor Education.*

HEALTH, EXERCISE SCIENCE AND RECREATION MANAGEMENT—HESRM

Professor Jim Gilbert, interim chair • 215 Turner Building

Professors Chitwood and Gilbert • Associate Professors Acevedo, Beason, and Hallam
• Assistant Professors Dupper, Ford, Jameson, Kovacs, Owens, and Zuefle • Instructor
Baller

Exercise and Leisure Activities—EL

UNIFORMS AND EQUIPMENT. All students in the exercise and leisure classes must wear the attire prescribed for the activity in which they are engaged.

All one (1) credit hour exercise and leisure activity courses will be graded on a pass-fail basis.

Unless otherwise indicated, each of the following courses carries one (1) semester-hour credit.

100. WILDERNESS LIVING TECHNIQUES. Basics of outdoor living skills focusing on camping, orienteering, basic survival, cooking, natural food identification and preparation and trip planning.

103. ROPES COURSES AND CLIMBING BASICS. An introduction to low ropes adventure courses, high ropes adventure courses, and basic climbing techniques such as rappelling and team climbing.

105. SELF-DEFENSE ACTIVITIES.

111. CYCLING.**117. VOLLEYBALL.**

118. BEGINNING FENCING. Introduction to the competitive sport of foil fencing.

119. ARCHERY.**124. RACQUETBALL.****129. BODY CONTOURING AND CONDITIONING.**

132. CANOEING. Principles of canoeing to include canoeing skills proficiency, basic water safety, small craft safety, and trip planning. Prerequisites: minimum of EL 170: Beginning Swimming or equivalent skill level. Must pass a swimming pre-test.

133. BACKPACKING.

134. KAYAKING. Fundamental techniques, safety, and navigation to facilitate skills for open water touring.

137. BOWLING.**139. GOLF.****142. OPEN WATER SCUBA DIVING.****147. TENNIS.****151. WEIGHT LIFTING.****153. SPORTS CONDITIONING.****154. COACHING SOCCER. (2)****156. JOGGING.**

158. LOW IMPACT AEROBICS. A form of aerobic exercise in which one foot remains in contact with the floor at all times.

159. HIGH IMPACT AEROBICS.

160. VARSITY SOCCER. For varsity athletes only.

169. AQUA EXERCISE. Forms of aquatic exercise including aqua-aerobics, deep water running, shallow water running, and swimming.

170. BEGINNING SWIMMING.**171. INTERMEDIATE SWIMMING.****172. ADVANCED SWIMMING.**

173. LIFEGUARDING. Techniques of lifeguarding skills, training, aquatic facility management, and emergency care. American Red Cross Certification. Prerequisite: Must have HP 203 or current American Red Cross Certification in Standard First Aid and Adult Basic CPR. Must pass pre-test. (2).

174. WATER SAFETY INSTRUCTOR. Techniques of aquatic instruction to include basic water safety, emergency water safety and progression swimming. Red Cross Certification is possible. Prerequisite: Proficient swimming skills to include: front crawl, back crawl, elementary backstroke, breaststroke, sidestroke. Must pass pretest. Must be Lifeguard certified or possess Emergency Water Safety Certification. (2).

175. LIFEGUARDING INSTRUCTOR. Techniques and applications of practical and teaching skills for individuals qualified to become an American Red Cross lifeguarding instructor. (2).

176. VARSITY VOLLEYBALL I.**177. VARSITY RIFLERY I.****179. VARSITY BASEBALL I.****180. VARSITY SOFTBALL I.****181. VARSITY BASKETBALL I.****183. VARSITY FOOTBALL I.****185. VARSITY GOLF I.****187. VARSITY TENNIS I.****189. VARSITY TRACK I.**

200. TEACHING TECHNIQUES FOR LAND-BASED ADVENTURES. Fundamental teaching techniques and skill preparation to teach outdoor living techniques. Prerequisite: consent of instructor. (2).

217. ADVANCED VOLLEYBALL.

218. ADVANCED FENCING. Advanced instruction in either foil, epee, or saber including advanced competencies in foot and blade work, fencing rules, refereeing, and equipment repair. Previous experience in competitive fencing required.

- 219. ADVANCED ARCHERY.**
- 224. ADVANCED RACQUETBALL.**
- 229. ADVANCED BODY CONTOURING AND CONDITIONING.**
- 231. TEACHING TECHNIQUES FOR SMALL CRAFT.** Fundamental teaching techniques and skill preparation for students planning to teach small craft (canoeing, kayaking, and sailing). Prerequisite: consent of instructor. (2).
- 233. SPORTS OFFICIATING I.** (2).
- 234. SPORTS OFFICIATING II.** (2).
- 237. ADVANCED BOWLING.**
- 239. ADVANCED GOLF.**
- 242. ADVANCED OPEN WATER SCUBA DIVING.** Course is designed to provide additional diving skills for those who have been certified as open water divers. Scuba diving knowledge, skills, and experience is further developed to enhance diving safety and enjoyment. Prerequisite: EL 142.
- 247. ADVANCED TENNIS.**
- 251. ADVANCED WEIGHT LIFTING.**
- 253. ADVANCED SPORTS CONDITIONING.**
- 255. COACHING TENNIS.** (2).
- 260. VARSITY SOCCER I.** For varsity athletes only.
- 269. ADVANCED AQUA EXERCISE.** This course will systematically review and expand the concepts of aquatic exercises introduced in EL 169 (Aqua Exercise). The exercises will improve cardiovascular endurance, flexibility, strength, and muscle tone.
- 276. VARSITY VOLLEYBALL II.**
- 277. VARSITY RIFLERY II.**
- 279. VARSITY BASEBALL II.**
- 280. VARSITY SOFTBALL II.**
- 281. VARSITY BASKETBALL II.**
- 283. VARSITY FOOTBALL II.**
- 285. VARSITY GOLF II.**
- 287. VARSITY TENNIS II.**
- 289. VARSITY TRACK II.**
- 342. MASTER DIVER.** Familiarizes the participant with advanced materials, knowledge, and experience in preparation for certification as a dive expert. (2).
- 352. COACHING FOOTBALL.** (2).
- 353. ADVANCED SPORTS CONDITIONING.**
- 354. COACHING BASKETBALL.** (2).
- 355. COACHING BASEBALL-SOFTBALL.** (2).
- 357. COACHING VOLLEYBALL.** (2).
- 359. COACHING TRACK AND FIELD.** (2).
- 360. VARSITY SOCCER II.** For varsity athletes only.
- 376. VARSITY VOLLEYBALL III.**
- 377. VARSITY RIFLERY III.**
- 379. VARSITY BASEBALL III.**
- 380. VARSITY SOFTBALL III.**
- 381. VARSITY BASKETBALL III.**
- 383. VARSITY FOOTBALL III.**
- 385. VARSITY GOLF III.**
- 387. VARSITY TENNIS III.**
- 389. VARSITY TRACK III.**
- 442. DIVE SUPERVISOR.** To develop an understanding of the cognitive and psycho-motor skill necessary in the preparation of scuba diving programs. (2).
- 453. ADVANCED SPORTS CONDITIONING.**
- 460. VARSITY SOCCER III.** For varsity athletes only.
- 476. VARSITY VOLLEYBALL IV.**
- 477. VARSITY RIFLERY IV.**

- 479. VARSITY BASEBALL IV.
- 480. VARSITY SOFTBALL IV.
- 481. VARSITY BASKETBALL IV.
- 483. VARSITY FOOTBALL IV.
- 485. VARSITY GOLF IV.
- 487. VARSITY TENNIS IV.
- 489. VARSITY TRACK IV.

Exercise Science–ES

- 100. INTRODUCTION TO EXERCISE SCIENCE.** An introduction to the faculty and courses in exercise science, with an emphasis on career planning and student development. Required for all exercise science majors during the first semester of program enrollment and recommended for any one considering exercise science as a major. (1). Z grade
- 104. SPORTS IN THE ANCIENT WORLD.** Introduction to sports and culture in the history of ancient Greece and Rome. (Same as CLC 104). (3).
- 319. SPORT AND SOCIETY.** A comprehensive view of past, present, and future directions of sport and fitness in American society. (3).
- 338. MOTOR LEARNING AND CONTROL.** The study and analysis of motor learning and control with emphasis on sensory, perceptual, and muscular components of human movement. (3).
- 346. KINESIOLOGY.** Analysis and study of human movement with special reference to anatomical principles underlying human movement. Students dropping ES 346 must also drop ES 347. Co-requisite: ES 347. Prerequisite: BISC 102/103 or 160/161, 206 and 207. (3).
- 347. KINESIOLOGY LABORATORY.** Experimental laboratory to accompany kinesiology lecture. Students who withdraw from the lecture must withdraw from the laboratory. Co-requisite: ES 346. (1).
- 348. PHYSIOLOGY OF EXERCISE.** Study of body systems affected by exercise; functions of these systems during exercise; effects of age, sex, body type, and nutrition on capacity for exercise; techniques of assessing physical work capacity, and a critical analysis of research literature. Students dropping ES 348 must also drop ES 349. Prerequisite: BISC 102/103 or 160/161, 206 and 207; CHEM from required list. Co-requisite: ES 349. (3).
- 349. PHYSIOLOGY OF EXERCISE LABORATORY.** Laboratory to accompany ES 348. Students dropping ES 349 also must drop ES 348. Co-requisite: ES 348. (1).
- 351. MEASUREMENT AND STATISTICS IN EXERCISE SCIENCE.** Evaluation of health status, physical fitness and other psychomotor parameters using appropriate laboratory and field techniques and focusing on administration and interpretation of results. (3).
- 391. TRENDS AND TOPICS IN EXERCISE SCIENCE.** Identification and analysis of trends and topics in exercise science. (3).
- 394. THERAPEUTIC EXERCISE AND FITNESS.** An overview of therapeutic exercise and fitness components for at-risk populations with emphasis on preventive and corrective programming. (3).
- 402. EXERCISE LEADERSHIP.** An overview of the educational concepts, performance techniques, program design, and leadership skills needed to teach individual and group-led exercise programs. (3).
- 440. BEHAVIORAL ASPECTS OF EXERCISE.** Behavioral considerations related to establishing and maintaining personal, commercial, corporate, or clinical-based exercise programs. Emphasis on strategies for increasing adherence and reducing attrition.
- 446. BIOMECHANICS OF HUMAN MOVEMENT.** Quantification of the forces acting on the human body during selected activities. Prerequisites: ES 346, 347; MATH 121, 123, or 125. (3).
- 456. EXERCISE TESTING AND PRESCRIPTION.** Scientific foundations of conditioning, a life-span approach with specific attention to exercise prescription. Students dropping ES 456 also must drop ES 457. Prerequisites: MATH 121; ES 348 and ES 349. Co-requisite: ES 457. (3).
- 457. EXERCISE TESTING AND PRESCRIPTION—LABORATORY.** Laboratory to accompany ES 456. Students dropping ES 457 also must drop ES 456. Co-requisite: ES 456. (1).
- 471. MANAGEMENT OF HEALTH, FITNESS AND SPORT PROGRAMS.** An analysis and study of management principles used in health, fitness, and sport programs. (3).
- 473. PRACTICUM.** Supervised experience in an approved professional setting to total 200 clock hours. Prerequisites: senior rank; 2.5 GPA in ES core; 24 ES core hours completed; consent of adviser. (3).

490. INDEPENDENT STUDY. Prerequisite: instructor's approval. (1-3).

493. INTERNSHIP. Full-time internship to provide application of curriculum content through supervised experiences. Internship locations are limited to departmentally approved sites. All exercise science and professional courses must be completed with a cumulative GPA of 2.5 prior to internship. (12).

512. FOUNDATIONS OF BIOMECHANICS. Biomechanical bases of human movement, focusing on the mechanical interaction between the human body and the external environment. (3).

542. SPORTS PSYCHOLOGY. Examination of motivation, personality, and other personal performance-related issues affecting sports. (3).

544. THE AMERICAN WOMAN IN SPORTS. A comprehensive, multidisciplinary analysis of the problems, patterns, processes, and potentials associated with the sport involvement of women in our culture. (3).

574. SELECTED PROBLEMS IN SPECIAL POPULATIONS. Selected problems confronting individuals with special needs in the areas of physical development, therapeutic activities, physiological performance, and leisure management. Prerequisite: ES 394. (3).

Health Promotion–HP

191. PERSONAL AND COMMUNITY HEALTH. A comprehensive health course including principles and practices of healthful living for the individual and community; major health problems; responsibilities of home, school, health agencies. (3).

203. FIRST AID AND CPR. Safety instruction and practices in the methods as prescribed in the American Red Cross standard and advanced courses. (3).

303. PREVENTION AND CARE OF ATHLETIC INJURIES. An analysis of injuries most common to each sport, safety procedures, practical procedures for administering first aid. Prerequisite: HP 203. (3).

403. ADVANCED ATHLETIC TRAINING. Advanced evaluative, rehabilitative, and preventive techniques in athletic training, with practical application under supervision. Prerequisite: HP 203, HP 303, BISC 206.(3).

406. INTRODUCTION TO DRIVER AND HIGHWAY SAFETY EDUCATION. Analysis of automobile operation, traffic law and regulations, attitudes, and safety problems. (Required for teacher certification). Prerequisite: driver's license. (3).

407. HIGHWAY SAFETY AND DRIVER EDUCATION. Methods, techniques, and materials designed for prospective teachers in the development of a driver education program. (Required for teacher certification). Prerequisite: 406. (3).

408. DRIVING SIMULATION. Methods of teaching driver education and highway safety in school, home, and community. (3).

507. SAFETY EDUCATION. Principles, procedures, and materials for teaching safety in school, home, and community. (Required for teaching endorsement. (3).

Park and Recreation Management–PRM

194. FOUNDATIONS OF LEISURE AND RECREATION. Analysis of the park and recreation profession to provide a basic understanding of leisure as an increasingly important component of our society. Majors and minors only or by consent of instructor. Majors must obtain a minimum "C" grade or repeat the course. (3).

200. PARK AND RECREATION PROGRAM LEADERSHIP. Planning and leadership techniques for conducting organized park and recreation programs for all age groups. Prerequisite: PRM 194. (3).

301. PLANNING AND EVALUATION IN PARK AND RECREATION MANAGEMENT. Principles of assessment, planning, and evaluation of park and recreation management, resources, areas, and facilities. Prerequisite: PRM 194 or PRM 200. (3).

302. PROGRAM PLANNING AND DEVELOPMENT. Techniques and processes in program planning, implementation, development, and evaluation in recreation settings. Prerequisites: PRM 194 or PRM 200. (3).

332. OUTDOOR RECREATION. Roles and responsibilities of local, state, and federal governments in providing appropriate locations, facilities, programs, and leadership. Prerequisite: majors and minors only, or with instructor approval. (3).

- 362. RECREATION FOR PERSONS WITH DISABILITIES.** A focus on the provision of inclusive recreation services for persons with disabilities, with emphasis placed on the content areas of attitude, legislation, programming, accessibility/usability, and the characteristics and implications of varied disabling conditions. (3)
- 371. CAMP LEADERSHIP.** Training for camp counseling: program; campcraft skills; survey of the field of camping. Prerequisite: Majors and minors only or with instructor's approval. (3).
- 380. CURRENT ISSUES IN TRAVEL AND TOURISM MANAGEMENT.** A survey of travel and tourism in the United States and abroad with focus on terminology, trends, demographics, and financial significance. (3).
- 391. PRACTICUM IN PARK AND RECREATION MANAGEMENT I.** Volunteer work in local park and recreation service agencies (majors/minors only). Prerequisite: Consent of adviser. (1).
- 392. PRACTICUM IN PARK AND RECREATION MANAGEMENT II.** Specialized volunteer work in one (1) local park and recreation service agency (majors only). Prerequisite: PRM 391, consent of adviser. (1).
- 400. PROFESSIONAL DEVELOPMENT.** Promote professional development through Internet utilization for career preparation. Attendance and written/oral evaluations of professional education sessions at a respective state, regional, and/or national professional conference will be required (majors only). Prerequisite: PRM 194, 200, 302. (1).
- 401. INTERNSHIP IN PARKS AND RECREATION MANAGEMENT.** Supervised internship in park and recreation programs to total 400 clock hours. Prerequisites: PRM 194, 200, 302, 391, 392, 400, and 471. Senior rank; 2.50 GPA in professional core; minimum score of 70 percent or higher on pre-internship exam; consent of instructor. (9-12). (Z grade).
- 425. DESIGN AND MAINTENANCE OF FACILITIES.** Application of principles for design and maintenance of physical and/or natural resources in park and recreation programs. Prerequisite: PRM 301. (3).
- 471. ADMINISTRATION OF PARK AND RECREATION PROGRAMS.** Administrative concepts of personnel and fiscal management in park and recreation environments. Prerequisite: PRM 302. (3).
- 472. THERAPEUTIC RECREATION.** An investigation of special populations, special needs for recreational programming, and response of municipal park and recreation and institutional agencies to fulfill these needs. Prerequisite: PRM 362. (3).
- 475. RECREATIONAL SPORTS PROGRAMMING.** An examination and discussion of the operational uniqueness essential to successfully operate recreational sports programs in a public or institutional setting. (3).
- 490. INDEPENDENT STUDY.** A course designed to allow individual educational pursuit in selected areas of interest in the field of park and recreation management. Prerequisites: PRM 194 or PRM 200; instructor's consent. (3).
- 497. COOPERATIVE FIELD PRACTICUM.** Cooperative academic/government outdoor recreation practicum. Approval of program director required. Park and recreation management majors only. (3). (Z grade).
- 498. COOPERATIVE FIELD PRACTICUM.** Cooperative academic/government outdoor recreation practicum. Approval of program director required. Park and recreation management majors only. (3). (Z grade).
- 499. COOPERATIVE FIELD PRACTICUM.** Cooperative academic/government outdoor recreation practicum. Approval of program director required. Park and recreation management majors only. (3). (Z grade).
- 510. ENTREPRENEURIAL RECREATION.** Application of small business management practices to private recreation and park enterprises. Prerequisite: senior standing. (3).
- 539. OUTDOOR RESOURCES MANAGEMENT.** Principles of development and management of natural resources, visitors, and maintenance services of outdoor recreation areas. Prerequisite: senior standing. (3).
- 569. STRATEGIES AND APPLICATIONS IN OUTDOOR EDUCATION.** A focus on the application of selected outdoor instructional strategies for use in the areas of recreation and education. Prerequisite: senior standing. (3).
- 573. PRINCIPLES AND PROCESSES OF THERAPEUTIC RECREATION.** Processes of therapeutic recreation delivery to include procedures for assessment, program planning, implementation, documentation, and evaluations. Prerequisites: PRM 472; senior standing. (3).

HEALTH INFORMATION MANAGEMENT *See the College of Liberal Arts section on Health Professions.*

HISTORY—HIS

Associate Professor Robert J. Haws, chair • 310 Bishop Hall

Professors Eagles, Field, Gispén, Metcalf, Namorato, Ownby, E. Payne, Skemp, Watt, and Wilson • Associate Professors Bercaw, Esposito, Grayzel, Lorenzo, J.F. Payne, Ross, Sullivan-Gonzalez, and Ward • Assistant Professors Dinius, Hornsby, Howard, Levitt, Neff, and Shadle

101. HISTORY OF EUROPE TO 1648. Introduction to European history from the Classical era to 1648. (3).

102. HISTORY OF EUROPE SINCE 1648. Introduction to European history since 1648. 101 is not a prerequisite. (3).

105. THE UNITED STATES TO 1877. Political, cultural, social, and economic development. (3).

106. THE UNITED STATES SINCE 1877. Continuation of 105 to the present. (3).

160. INTRODUCTION TO LATIN AMERICAN HISTORY. Introduction to the history of Latin America with an emphasis on the modern era. (3).

170. INTRODUCTION TO AFRICAN HISTORY. Introduction to the history of Africa with an emphasis on the modern era. (Same as AAS 170). (3).

180. INTRODUCTION TO EAST ASIAN HISTORY. Introduction to the history of East Asia with an emphasis on the modern era. (3).

301. COLONIAL AMERICA. The development of the American colonies to 1750. (3).

302. AMERICA IN THE AGE OF REVOLUTION, 1740-1789. Political, social, and economic development. (3).

303. U.S. HISTORY, 1789-1850: THE EMERGING NATION. Social, political, economic, and cultural history from the founding of the nation through the expansion of the frontier, market revolution, rise of plantation slavery, and the era of reform. (3).

304. U.S. HISTORY, 1877-1918: THE NATION REDEFINED. Social, political, economic, and cultural history of America in the age of industrialization, urbanization, and globalism. (3).

305. THE UNITED STATES, WORLD WAR I-1945. Major developments in the age of normalcy, depression, and global war. (3).

306. THE UNITED STATES SINCE 1945. Major developments in age of Cold War, domestic reform, and world power responsibilities. (3).

307. AFRICAN AMERICAN HISTORY TO 1865. Black American history from West Africa to 1865, emphasizing the role of black leaders and their struggle against oppression. (Same as AAS 325.) (3).

308. AFRICAN AMERICAN HISTORY SINCE 1865. A survey of the history of black Americans from the Emancipation Proclamation to the present, emphasizing the role of black leaders, the struggle against oppression, and the evolution of race relations. (Same as AAS 326.) (3).

310. UNITED STATES DIPLOMACY SINCE 1898. United States foreign policy from McKinley's second administration to the present, emphasizing the role of the United States as a world power. (3).

312. WOMEN IN UNITED STATES HISTORY. History of the struggle for equality in U.S. politics and culture. (Same as G ST 312). (3).

313. U.S. INTELLECTUAL HISTORY TO 1900. An exploration of ideas in American society, including religion, republicanism, liberalism, nationalism, domesticity, the self, science, and race. (3).

314. U.S. INTELLECTUAL HISTORY SINCE 1900. An exploration of ideas in American society, including pragmatism, liberalism, fundamentalism, conservatism, the sciences, and liberation theory. (3).

315. THE AMERICAN DREAM. An examination of American optimism, and the changes in American hopes and dreams as they developed and were modified by particular historical events from the 18th through the 20th centuries. (3).

- 316. UNITED STATES ECONOMIC HISTORY.** A survey of the economic development of the U.S. from colonial times to the present. (3).
- 318. UNITED STATES LABOR HISTORY.** History of the labor movement in the United States in the 19th and 20th centuries. (3).
- 319. UNITED STATES RELIGIOUS HISTORY.** The role of religious ideas and institutions in the development of the United States. (Same as REL 319). (3).
- 320. UNITED STATES MILITARY HISTORY.** The development of the armed forces of the United States from 1775. Military institutions will be viewed in terms of their relationship to the wider context of U.S. history. (3).
- 321. UNITED STATES LEGAL AND CONSTITUTIONAL HISTORY.** Major developments in law and legal institutions since Blackstone. (3).
- 327. HISTORICAL PERSPECTIVES ON SLAVERY IN THE AMERICAS.** The roles of Europeans, Africans and the nations of North and South America in the international slave trade and the institution of slavery, and the intellectual history of the race issues and the enslavement of African Americans. (Same as AAS 438). (3)
- 328. HISTORY OF AFRICAN AMERICANS IN SPORT.** A historical survey of African Americans and their roles in various sports, beginning with the black participation in the late 19th century and chronicling that involvement into the 21st century. (Same as AAS 440). (3)
- 329. THE CIVIL RIGHTS ERA.** The African American struggle for civil equality, emphasizing the role of African Americans, the resistance of other racial and ethnic groups, the role of federal and state agents/agencies from the perspective of political and social history. (Same as AAS 443.) (3)
- 330. THE HISTORY OF MISSISSIPPI.** Political, economic, and cultural developments from Indian settlement through contemporary society. (3).
- 331. THE SOUTH THROUGH THE NINETEENTH CENTURY.** Social, political, economic, and cultural developments through the 19th century, including slavery, the plantation system, western migration, the Civil War, and its aftermath. (3).
- 332. THE SOUTH IN THE TWENTIETH CENTURY.** A survey of developments in agriculture, industry, music, literature, politics, and race. (3).
- 333. THE ERA OF THE CIVIL WAR, 1850-1877.** Major developments from the sectional tensions of the 1850s through Reconstruction. (3).
- 334. THE BLUE AND THE GRAY.** A military history of the Civil War. (3).
- 335. ECONOMIC HISTORY OF THE SOUTH.** A survey of the major economic developments in the South since the Civil War with special emphasis on Southern economic growth and its effects on the United States generally. (Same as ECON 329). (3).
- 336. WOMEN IN SOUTHERN HISTORY.** A historical survey of Southern women with emphasis on research through documentary sources and oral history. (Same as G ST 336). (3).
- 337. HISTORY OF RELIGION IN THE SOUTH.** Southern religion and its cultural, racial, and political impact from the Great Awakening to the present. (Same as REL 303). (3).
- 338. MASCULINITIES AND FEMININITIES IN AMERICAN CULTURE.** An analysis of changing views of the masculine and the feminine in American culture since 1607. Class, racial, and ethnic differences will be emphasized. (Same as G ST 338). (3).
- 339. AFRICAN AMERICAN WOMEN'S HISTORY.** An introduction to African American women's history, exploring the epistemology and scholarship. (Same as AAS 362 and G ST 362). (3).
- 340. SCIENCE IN THE MODERN WORLD.** The course examines how science and technology became the defining features of the modern world, and how in turn the conditions of modern life have shaped our views of the natural world. (3).
- 341. THE DARWINIAN REVOLUTION.** The course traces the origins, development, and consequences of evolutionary thought in the Western world. (3).
- 344. RACE AND ETHNICITY IN LATIN AMERICA.** Role of race and ethnicity in Latin America from the Conquest to the present. (3).
- 345. LATIN AMERICAN CITIES: CULTURE, SPACE, AND POWER.** Urban history of Latin America from colonial foundations through transformations of the 20th century. (3).
- 346. GENDER AND POWER IN LATIN AMERICA.** Examination of gender roles in Latin American history. (Same as G ST 346). (3).
- 347. LATIN AMERICAN HISTORY ON FILM.** Examination of film as a historical source, development of film-making traditions in the course of national histories. (3).

- 348. THE GOLDEN AGE OF ATHENS.** A detailed examination of the history and culture of Athens in the 5th century B.C. centering on the life of Pericles. The course will begin with the birth of democracy under Cleisthenes and end with the death of Socrates. (Same as CLC 340). (3).
- 349. ALEXANDER THE GREAT.** An examination of the rise of Macedonia under Philip, the accession of Alexander's conquest of the Persian Empire. Topics discussed include Macedonia's domination of Greece, Greek opposition, the destruction of Olynthus, the Persian Empire, and differing modern interpretations of Philip and Alexander (Same as CLC 341). (3).
- 350. GREEK HISTORY.** The history of the Greek world from the earliest times to 146 B.C.; influence of Greek institutions on modern civilization. (Same as CLC 311). (3).
- 352. ROMAN REPUBLIC.** A survey of the history of the Roman Republic from the founding of the city in 735 B.C. to the end of the Second Triumvirate in 31 B.C. (Same as CL 313). (3).
- 353. ROMAN EMPIRE.** A survey course in the history of the Roman Empire from the reign of Augustus beginning in 31 B.C. through the fall of the Western Roman Empire in 476 A.D. (Same as CLC 314). (3).
- 354. THE MIDDLE AGES.** History of Europe from the fall of the Roman Empire to the Renaissance. (3).
- 355. EUROPE IN THE LATE MIDDLE AGES AND RENAISSANCE.** Politics, society, and culture, 1300-1517. (3).
- 356. REFORMATION EUROPE, 1517-1648.** European politics, society, and culture from the Reformation through the Thirty Years' War. (3).
- 357. THE AGE OF ABSOLUTISM AND ENLIGHTENMENT, 1648-1789.** Major developments in the Europe in the Age of Absolutism and Enlightenment. (3).
- 358. EUROPE IN THE AGE OF REVOLUTION, NATIONALISM AND EMPIRE, 1789-1890.** Major developments in European history from the French Revolution to 1890. (3).
- 359. EUROPE IN AGE OF IMPERIALISM AND WORLD WAR, 1890-1945.** Major developments in European history to the end of World War II. (3).
- 360. EUROPE IN THE AGE OF COLD WAR, DETENTE, AND ECONOMIC INTEGRATION.** Major developments in European history since 1945. (3).
- 361. HISTORY OF THE HOLOCAUST.** Causes, evolution, and significance of the Holocaust in Nazi Germany. (3).
- 362. WORLD WAR II.** Global history of the Second World War with an emphasis on the origins of the conflict, the conduct of the war and ways in which myth and memory shaped the post-war world. (3).
- 363. FRANCE, 1789-PRESENT.** Survey of major developments in French history. (3).
- 364. GERMANY IN THE AGE OF UNIFICATION, BISMARCK AND IMPERIALISM 1815-1914.** Survey of the major developments of German history. (3).
- 365. GERMANY FROM WORLD WAR I TO THE PRESENT.** Survey of the major developments in German history in the 20th century. (3).
- 366. IMPERIAL RUSSIA FROM PETER THE GREAT TO THE BOLSHEVIK REVOLUTION, 1682-1917.** Survey of the major developments of Russian history in the 18th and 19th centuries. (3).
- 367. 20th CENTURY RUSSIA.** Origins of the Bolshevik Revolution, development of the Soviet state, collapse of the USSR and emergence of CIS. (3).
- 368. ITALY FROM CAVOUR AND GARIBALDI TO THE PRESENT.** Survey of Italian history from the Age of Unification to the present. (3).
- 369. MEDIEVAL ENGLAND, 1066-1509.** Political, social, and cultural history of England from the Norman Conquest through the reign of Henry VII. (3).
- 370. EARLY MODERN ENGLAND, 1509-1688.** Political, social, and cultural history of England from the Reign of Henry VIII to the Glorious Revolution. (3).
- 371. GREAT BRITAIN FROM ARISTOCRACY TO DEMOCRACY.** Political, social, and cultural history of Britain from 1688 to the mid-19th century. (3).
- 372. GREAT BRITAIN IN THE MODERN AGE.** Political, social, and cultural history of Britain from the mid-19th century to the present. (3).
- 373. HISTORY OF ANCIENT CHRISTIANITY.** Development of Christian doctrines from apostolic times to the seventh Ecumenical Council of 787. (Same as REL 373). (3).
- 374. MEDIEVAL CHURCH AND EMPIRE.** History of the two dominant institutions of the Early and High Middle Ages. (3).
- 375. HISTORY OF MEDIEVAL CHRISTIANITY.** Examination of Christian theologies from Constantine to the Protestant Reformation. (Same as REL 375). (3).

- 376. RENAISSANCE AND EARLY MODERN STUDIES.** Interdisciplinary approach to this era in European history through a study of its literature, religion, economic conditions, artistic and scientific achievements, as well as its politics, geographical exploration, colonization, and slave trade. Required of all Renaissance and Early Modern Studies minors but open to all students. (Same as ENGL 376, MLLL 376). (3).
- 377. THE FRENCH REVOLUTION, 1789-1815.** The coming of the French Revolution, its social, economic, diplomatic, and cultural effects; the rise and fall of the Napoleonic Empire. (3).
- 378. EUROPEAN SOCIETY AND ECONOMY IN THE AGE OF IMPERIALISM 1750-1914.** Major developments in the social and economic history of Europe. (3).
- 379. EUROPEAN SOCIETY AND ECONOMY IN 20th CENTURY.** Major developments in the social and economic history of Europe. (3).
- 380. SOCIETY AND THE SEXES IN MODERN EUROPE.** An exploration of the changing roles of European women and men since the French Revolution in 1789. (Same as GST 380). (3).
- 382. THE COLD WAR.** Survey of major developments and consequences of the U.S.-Soviet rivalry from World War II to the present. (3).
- 383. FOUNDATIONS OF THE COMMON LAW.** English legal history from the earliest times to Blackstone. (3).
- 384. BRITISH EMPIRE AND COMMONWEALTH.** The history of British expansion from the age of exploration through the establishment of the Empire to the commonwealth of the 20th century. (3).
- 386. MIDDLE EAST AND NORTH AFRICA.** North Africa and the Middle East from the Middle Ages to the present, with an emphasis on developments since 1919. (3).
- 387. SUB-SAHARAN AFRICA.** History of Africa and African cultures from the earliest times to the present. (Same as AAS 392). (3).
- 388. MEXICO AND CENTRAL AMERICA.** A political, economic, and social history of 19th and 20th century Mexico and Central America. (3).
- 390. LATIN AMERICAN SOCIAL REVOLUTIONS.** Major social upheavals since 1900 in Mexico, Bolivia, Brazil, Cuba, Chile, and Central America. (3).
- 392. CONQUEST AND RESISTANCE IN LATIN AMERICA, 1450-1800.** Examination of the process of encounter, conquest and resistance that formed diverse societies of Latin America. (3).
- 393. STATE, CITIZEN, AND NATION IN MODERN LATIN AMERICA.** Emphasis on nation-formation, the conflict between economic development and social justice, race and class, and U.S. relations. (3).
- 394. LATE IMPERIAL AND MODERN CHINA.** Surveys the political, social, economic and intellectual history of China since 1600. Emphasis on the buildup and disintegration of China's last dynastic empire and on the concept of revolutionary change in the 20th century. (3)
- 395. CHINA IN REVOLUTION.** History of socialism and revolution in China, emphasizing rise of the Chinese Communist Party, its victory in 1949, and post-1949 People's Republic of China. (3)
- 396. MODERN JAPANESE HISTORY.** Beginning with Japan's early modern past and its forced emergence from isolation, the course will explore Japan's rise as a modern state, its plunge into militarism and war, and its subsequent economic "miracle." (3)
- 397. CHINA AND THE UNITED STATES SINCE 1784.** History of contacts between the two peoples since 1784, with focus on the 20th century. Includes all aspects of cultural, economic and political relations. (3)
- 398. WAR AND MEMORY IN JAPAN.** An analysis of how Japan's experience in World War II has influenced its contemporary political, economic, and social structure. (3).
- 399. PROBLEMS IN HISTORY.** Special topics course; content varies; may be repeated for credit with consent of department chair. (1-3).
- 400. UNDERGRADUATE RESEARCH SEMINAR IN UNITED STATES HISTORY.** Closed to nonmajors except with instructor's permission. (3).
- 401H. DIRECTED READINGS IN HISTORY.** Directed readings in history. Open only to Honors College students working on theses in history. (3).
- 402H. DIRECTED RESEARCH IN HISTORY.** Directed research in history. Open only to Honors College students working on theses in history. (3).
- 405. TOPICS IN HISTORY ABROAD.** Students do approved course work at a foreign university. May not be used to complete 400-level seminar requirement for history majors. May be repeated for credit with permission of department chair. (1-6).
- 450. UNDERGRADUATE RESEARCH SEMINAR IN EUROPEAN HISTORY.** Closed to nonmajors except with instructor's permission. (3).

460. UNDERGRADUATE RESEARCH SEMINAR IN AFRICAN HISTORY. Closed to nonmajors except with instructor's permission. (3).

470. UNDERGRADUATE RESEARCH SEMINAR IN LATIN AMERICAN HISTORY. Closed to nonmajors except with instructor's permission. (3).

490. UNDERGRADUATE READING SEMINAR IN HISTORY. Reading and writing seminar for majors; content varies, may be repeated for credit. May substitute for any 400-level course to meet major requirements. (3).

HONORS COLLEGE *See the McDonnell-Barksdale Honors College.*

INTERNATIONAL RELATIONS *See the Department of Political Science.*

INTERNATIONAL STUDIES—INST

Professor Michael F. Metcalf, executive director, Croft Institute for International Studies
• 304 Croft Institute

Professors Gispén, Gutierrez, and M. Metcalf • Visiting Professors Bales, Frost, and Terasawa • Associate Professors Brower, Cooper, Sullivan-Gonzalez, and Yang • Assistant Professors Cozad, Dinius, Guo, Howard, and E.-M. Metcalf • Instructor Ochiai

101. INTRODUCTION TO INTERNATIONAL STUDIES. Exploration of ways of knowing, themes and concerns of international studies, and current issues and events in their global context. (3).

103. INTRODUCTION TO CHINESE LANGUAGE AND CULTURE. An introduction to Chinese language and culture, providing a foundation for further study in the field. (3).

107. INTRODUCTION TO LATIN AMERICA. An introduction to Latin American societies, with emphasis upon the political, economic, and cultural issues facing the region. (3).

110. INTERCULTURAL COMMUNICATION: PREDEPARTURE. Prepares students to cope with cross-cultural issues before studying abroad. Prerequisite: consent of instructor. (1).

111. INTERCULTURAL COMMUNICATION: REENTRY. Designed to help students acquire the knowledge, skills, and attitudes that enable them to understand their study abroad experience and their readjustment to American culture in light of current intercultural theory and principles. (1).

203. EAST ASIAN STUDIES. A multidisciplinary study of East Asia, with emphasis on the development of ideas and institutions in the region. (3).

205. EUROPEAN STUDIES. A multidisciplinary study of Europe, with emphasis on the development of ideas and institutions in the region. (3).

207. LATIN AMERICAN STUDIES. A multidisciplinary study of Latin America, with emphasis on the development of ideas and institutions in the region. (3).

211. READING SEMINAR. Discussion of selected texts from journals, magazines, and newspapers chosen to challenge students in their analysis of current debates regarding core concerns within the international studies major. May be repeated once for credit. Prerequisite: consent of instructor. (1). (Z grade).

212. FRENCH NEWS COVERAGE. Structured discussion of French-language media designed to apply students' language skills to the study (in French) of current events that touch upon core concerns within the international studies major. May be repeated once for credit. Prerequisite: Third-year French or the equivalent and consent of the instructor. (1). (Z grade).

213. GERMAN NEWS COVERAGE. Structured discussion of German-language media designed to apply students' language skills to the study (in German) of current events that touch upon the core of concerns within the international studies major. May be repeated once for credit. Prerequisite: Third-year German or the equivalent and consent of the instructor. (1). (Z grade).

- 214. LATIN AMERICAN NEWS COVERAGE.** Structured discussion of Latin American media designed to apply students' language skills to the study (in Spanish) of current events that touch upon core concerns within the international studies major. May be repeated once for credit. Prerequisites: Third-year Spanish or the equivalent and consent of the instructor. (1). (Z grade).
- 310. TOPICS IN EAST ASIAN STUDIES.** Studies in modern East Asia. Examination of the histories and cultures, the social, political, and economic systems of the region. Content varies. Each course offering will draw upon relevant disciplines. (May be repeated once for credit.) (3).
- 312. TOPICS IN EUROPEAN STUDIES.** Studies in modern Europe. Examination of the histories and cultures, the social, political, and economic systems of the region. Content varies. Each course offering will draw upon relevant disciplines. (May be repeated once for credit.) (3).
- 314. TOPICS IN LATIN AMERICAN STUDIES.** Studies in modern Latin America. Examination of the histories and cultures, the social, political, and economic systems of the region. Content varies. Each course offering will draw upon relevant disciplines. (May be repeated once for credit.) (3).
- 316. TOPICS IN INTERNATIONAL STUDIES.** Examination of specific issues in international studies drawing upon cultural, economic, political, and social modes of inquiry. Each course offering will draw upon relevant disciplines. Content varies; may be repeated once for credit. (3).
- 318. TOPICS IN GLOBAL STUDIES.** Examination of theoretical and practical aspects of specific global issues of an over-arching nature, such as international human rights and population movements. Each course offering will draw upon relevant disciplines. Content varies; may be repeated once for credit. (3).
- 321. THE VIETNAM WARS, 1946-1989.** The course focuses on the four wars that swept over Vietnam during the 20th century. (3).
- 323. RELIGION, THE STATE, AND CONFLICT IN ASIA.** Explores the interaction of religion and the state through case studies; examines roots of religious nationalism, relationship between religious identity and ethnicity; and international diplomatic strategies regarding religious conflicts in Asia. (3).
- 324. INTRODUCTION TO INTERNATIONAL LAW.** Introduction to fundamental notions of public international law and international trade law. (3).
- 325. GLOBAL ECOLOGY AND CONSERVATION.** This course explores how the science of ecology relates to environmental, cultural, political, and economic issues of global and international significance. Prerequisite: BISC 104. (3).
- 331. TOPICS IN EAST ASIAN STUDIES ABROAD.** Students do departmentally approved course work at a foreign university. May be repeated with permission of International Studies program. Open only to majors. (1-6).
- 332. TOPICS IN EUROPEAN STUDIES ABROAD.** Students do departmentally approved course work at a foreign university. May be repeated with permission of International Studies program. Open only to majors. (1-6).
- 333. TOPICS IN LATIN AMERICAN STUDIES ABROAD.** Students do departmentally approved course work at a foreign university. May be repeated with permission of International Studies program. Open only to majors. (1-6).
- 334. TOPICS IN INTERNATIONAL STUDIES ABROAD.** Students do departmentally approved course work at a foreign university. May be repeated with permission of International Studies program. Open only to majors. (1-6).
- 401. RESEARCH COLLOQUIUM.** Senior thesis writing seminar required of all majors. (3).
- 411. RESEARCH IN EAST ASIAN STUDIES.** Students conduct departmentally approved research project off campus under faculty supervision and with permission of International Studies program. May be repeated with permission of International Studies program. (1-6).
- 412. RESEARCH IN EUROPEAN STUDIES.** Students conduct departmentally approved research project off campus under faculty supervision and with permission of International Studies program. May be repeated with permission of International Studies program. (1-6).
- 413. RESEARCH IN LATIN AMERICAN STUDIES.** Students conduct departmentally approved research project off campus under faculty supervision and with permission of International Studies program. May be repeated with permission of International Studies program. (1-6).
- 414. RESEARCH IN INTERNATIONAL STUDIES.** Students conduct departmentally approved research project off campus under faculty supervision and with permission of International Studies program. May be repeated with permission of International Studies program. (1-6).

JOURNALISM—JOUR

Professor Samir Husni, interim chair • 331 Farley Hall

Professors Husni and J.B. Atkins • Associate Professors I.E. Atkins, Manning-Miller, Morris, and Wilkie • Assistant Professors Boutwell, Braseth, Cheers, Dolan, Schultz, Stone, and Wickham • Instructors Davis, Meacham, Russell, and Street

101. INTRODUCTION TO MASS COMMUNICATION. An introduction to traditional mass media (newspapers, magazines, television, radio, public relations, and advertising), the New Media, and their importance to and impact on modern society. (3).

102. WRITING FOR THE MEDIA. Introduction to writing for print and broadcast journalism. Major emphasis on language skills and style conventions. Weekly laboratory required. Prerequisite: ENGL 101 or ENGL 102 or LIBA 102. (3).

271. NEWS REPORTING. Development of basic news-gathering and writing for newspapers and magazines. Prerequisites: JOUR 102 and typing proficiency of 30 wpm. Prerequisite or corequisite: JOUR 101. (3).

272. BROADCAST NEWSWRITING AND REPORTING. Introduction to basic newsgathering and writing for the broadcast media. Audio production techniques. Prerequisites: JOUR 102 and typing proficiency of 30 wpm. Prerequisite or corequisite: JOUR 101. (3).

273. EDITING BY DESIGN. An introduction to visual communication, layout and design, typography, and editing with direct application to specific journalism projects. Prerequisite: JOUR 102 or instructor's permission. (3).

301. HISTORY OF MASS MEDIA. Growth and development of the mass media and their role as participants in and chroniclers of U.S. history. Attention to ideological, political, technological, economic and cultural factors. (3).

371. COMMUNICATIONS LAW. Legal rights and responsibilities of print and broadcast journalists. Attention to Constitutional law, Mississippi statutes and precedent, and FCC regulation. Prerequisite: JOUR 101 or instructor's permission. (3).

375. PHOTOJOURNALISM. Photographic theory; techniques in the use of cameras and desktop editing; interest factors in photography. Prerequisite: JOUR 273 or instructor's permission. (3).

376. TELEVISION TECHNOLOGY. Fundamentals of television production and electronic news gathering through operation of portable cameras and editing of news stories. Prerequisite: JOUR 272. (3).

377. ADVANCED REPORTING. Development of skills in conceiving, documenting, organizing, and presenting information. Emphasis on covering government institutions and using public records. Prerequisite: JOUR 271. (3).

378. TELEVISION REPORTING. Writing and field producing news stories with an introduction to production of news programs. Prerequisite: JOUR 376. (3).

379. EDITING. A comprehensive workshop in language usage: Headline, cutline, and billboard writing; style, libel, and taste; accuracy and fairness. Laboratory. Prerequisite: JOUR 271. (3).

381. NEWSPAPER MANAGEMENT. Managing and integrating the news, advertising, production and circulation functions in the newspaper industry; analysis of problems and opportunities presented by economic, social, political and technological change. Prerequisite: JOUR 271. (3).

383. ADVERTISING LAYOUT AND DESIGN. Preparation of copy and graphics for advertising layouts. Prerequisite: JOUR 273. (3).

386. BROADCAST ADVERTISING SALES. Basic advertising techniques for broadcasting, including planning, selling, and servicing clients at the local and national levels. (3).

388. BROADCAST MANAGEMENT. Policies, procedures, and responsibilities involved in radio and television management. Prerequisite: JOUR 272 or instructor's permission. (3).

389. MAGAZINE EDITING. Fundamentals of magazine editing, production, design, and management. Production of laboratory magazine. Prerequisite: consent of instructor. (3).

390. INTRODUCTION TO WRITING FOR ADVERTISING. Types of advertising; concepts of creativity, copy structure and style; emphasis on creative thinking and clear, precise writing in preparation of advertising for print and broadcast media and copy for presentations and direct mail. Prerequisite: JOUR 102 or instructor's permission. (3).

391. PUBLIC RELATIONS. Basic problems in public relations; publicity and development in the community, industry, and government. (3).

- 399. SCHOOL PUBLICATIONS.** Problems and purposes of school newspapers and other scholastic publications; production techniques; selecting and directing a staff; financial and ethical problems. Limited to students earning a secondary teaching certificate. Laboratory. (Same as EDSE 528). (1-3).
- 400. INTERNATIONAL JOURNALISM.** An in-depth examination of the international media in a rapidly changing world, how journalists in other nations view and report the news and how that coverage compares to U.S. journalism. (3).
- 401. MAGAZINE SERVICE JOURNALISM.** Trends in service journalism magazine publishing. Students prepare a prospectus for a new venture, including concept, editorial philosophy, competition, staff, audience, content, and budget. Prerequisite: JOUR 271. Prerequisite or corequisite: JOUR 273. (3).
- 472. MAGAZINE AND FEATURE WRITING.** Conceiving, marketing, researching and writing nondeadline articles for newspapers and service journalism publications. Prerequisite: JOUR 271. (3).
- 475. EDITORIAL AND OPINION WRITING.** The editorial and opinion function in contemporary news media, researching and writing editorials, opinion columns, and reviews. Prerequisite: JOUR 271 or 272. (3).
- 477. SPECIALIZED REPORTING.** Advanced reporting focused on one or more areas of specialization (e.g., business, nonprofits, science, health, sports), based on instructor's interest and expertise. Prerequisite: JOUR 377 or 378. (3).
- 480. ADVANCED BROADCAST REPORTING.** Writing and gathering of in-depth stories and an introduction to the magazine piece and news documentary. Prerequisite: JOUR 378. (3).
- 491. PUBLIC RELATIONS TECHNIQUES.** Practical analysis and development of specialized communication approaches to achieve specific objectives on behalf of a client. Application of public relations techniques inside and outside the classroom. Prerequisite: JOUR 271 or 272 and JOUR 391. (3).
- 492. PUBLIC RELATIONS CASE PROBLEMS.** Research, decision processes, and program design in addressing public relations problems at the management level. Application of public relations principles and techniques in programs of profit and nonprofit institutions. Role of mass media. Ethical considerations. Prerequisite: JOUR 391. (3).
- 495. JOURNALISM PRACTICUM.** Internship experience in print or electronic news media or related media agencies, such as public relations and advertising. Prerequisites: junior standing, minimum 2.5 departmental GPA, and approval of department chair. (1-3). (Z grade).
- 501. MAGAZINE SERVICE JOURNALISM PUBLISHING.** Conceptualization, market research and production for a prototype and media kit for a service journalism magazine. Prerequisite: JOUR 401. (3).
- 553. SERVICE JOURNALISM MANAGEMENT.** Business aspects of magazine publication. Personnel management with emphasis on getting productivity and quality results from creative people. Prerequisite: JOUR 401. (3).
- 573. MASS COMMUNICATIONS, TECHNOLOGY, AND SOCIETY.** The theory of mass communications technology in relation to media functions, responsibilities, and influence in society. (3).
- 574. PUBLIC OPINION AND THE MASS MEDIA.** Effects of language, culture, and ideology. Communication in the formation and action of crowds, masses, and publics. Mass and personal persuasion and propaganda techniques. The diffusion of ideas. Community power structures. Public opinion measurement. (3).
- 575. MASS MEDIA ETHICS AND SOCIAL ISSUES.** Formulation and discussion of professional ethics for journalists. Analysis of social forces affecting media performance. (3).
- 577. DEPTH REPORTING.** Investigative and interpretative news writing; coverage of courts and legislative bodies; use of public records. Prerequisite: JOUR 377 or instructor's permission. (3).
- 578. TELEVISION DOCUMENTARY REPORTING.** Development of skills in conceiving, documenting, recording, and presenting information at broadcast standards as mini-documentaries in television newscasts or as 30-minute and 60-minute documentary programs. Prerequisite: JOUR 378 or instructor's permission. (3).
- 580. TOPICS IN JOURNALISM.** Perspectives on issues such as international mass communication, media and society, journalism ethics, diversity, etc. Prerequisite: consent of instructor. (May be repeated for credit.) (3).
- 599. MEDIA PROBLEMS.** Directed individual study or professional project. Prerequisite: Permission of faculty supervisor and department chair. (May be repeated once for credit). (1-3).

LABORATORY EXPERIENCES *See the Department of Curriculum and Instruction.*

LATIN *See the Department of Classics.*

LATIN AMERICAN STUDIES—LAS

Associate Professor Edward B. Sisson, adviser • 23W Bondurant

315. AN INTRODUCTION TO LATIN AMERICAN STUDIES I. A multidisciplinary survey of the prehistory, history, literature, art, music, politics and government of the Spanish- and Portuguese-speaking countries of Latin America. Taught in English. (Same as ANTH 315). (3).

316. INTRODUCTION TO LATIN AMERICAN STUDIES II. A multidisciplinary survey of the prehistory, history, literature, art, music, politics, and government of the Spanish- and Portuguese-speaking countries of Latin America. (Same as ANTH 316). (3).

351. TOPICS IN LATIN AMERICAN STUDIES. Selected topics in Latin American studies. Content varies. (May be repeated for credit). (Same as ANTH 351). (3).

LAW ENFORCEMENT *See the Department of Legal Studies.*

LEADERSHIP AND COUNSELOR EDUCATION

120 Guyton Hall

Professor Cooker • Associate Professors Burnham, Fulton, Letzring, Mullins, Smothers, Sullivan, and Wells • Assistant Professors Bates, Giunta, Melear, Reardon, Showalter, and Snow • Adjunct Professors Bryson, Papasan, and Weeks

Educational Leadership—EDLD

101. ACADEMIC SKILLS FOR COLLEGE. The development of academic skills, including time management, note taking, reading textbooks, preparing for and taking examinations, and orientation to University life. Students who take EDLD 101 may not also receive credit for EDLD 105. (3).

105. THE FIRST YEAR SEMINAR. Designed to help first-year students adjust to the University, develop a better understanding of the learning process, acquire essential survival skills, and begin the major/career exploration process. The course also introduces students to the mission, values, and constituencies of a comprehensive public university, and to ethical and social concerns affecting its functioning. Prerequisite: freshman standing. Students who take EDLD 105 may not also receive credit for EDLD 101 or 201. (2).

110, 111. CHANCELLOR'S LEADERSHIP CLASS I, II. Is intended for freshman students elected from a pool of candidates nominated by high school principals and guidance counselors. The course meets weekly for one hour. Programs are presented by persons in leadership capacities in government, education, journalism, business, sports, and religion. Additionally, students participate in prescribed leadership exercises and activities. Students also attend a yearly retreat and take a field trip to Jackson and the state capitol. (Z grade). (1, 1).

120. INTRODUCTION TO LEADERSHIP STUDIES. Seminar to broaden the student's recognition of his or her ability to affect the community. Emphasis on personal identity, the development of leadership skills, and the development of confidence in self and in relationships. (3).

201. CAREER DECISION-MAKING. The development of self-awareness and career/life planning skills through exposure to theories of career development, self-assessment instruments, decision-making models, and occupational exploration. Limited to freshmen and sophomores or consent of instructor. Students who take EDLD 105 may not also receive credit for EDLD 201. (3).

220. FOUNDATIONS OF LEADERSHIP STUDIES. Broaden the student's understanding of leadership by an in-depth study of the concept and practice of leadership as a way to maximize the student's ability to affect the community. EDLD 120 is not a prerequisite. (3).

301. CAREER AND LIFE PLANNING. The development of career and life planning skills through exposure to occupational information, decision-making models, job search techniques, professional literature, leadership roles, values clarification, and career ladder strategies. Limited to junior and senior students or consent of instructor. (3).

320. THE UNIVERSITY OF MISSISSIPPI SERVICE ORGANIZATION LEADERS. Seminar in service learning and assignment as a University of Mississippi student leader. Prerequisites: EDLD 120, EDLD 220, consent of instructor. (3).

420. EXERCISING LEADERSHIP: MOBILIZING GROUP RESOURCES. Advanced study of the concepts of leadership and authority especially seen as distinguishable characteristics. Mobilization of group action is the framework for this study. Prerequisites: EDLD 120, EDLD 220, consent of instructor. (3).

500. PERSPECTIVES ON EDUCATIONAL ADMINISTRATION. Organization and structure of American education at the national, state, and local levels. (3).

501. THE EFFECTIVE PRINCIPAL. The principal as an instructional leader and unit manager. (3).

504. INSTRUCTIONAL IMPROVEMENT. Promoting teacher improvement through clinical supervision and awareness of the elements of effective teaching. Staff development through clinical supervision; improvement of instruction through observation of teaching, supervisor-teacher conferences, and support activities. (3).

505. SCHOOL LAW SEMINAR. Instruction in and discussion of current legal problems confronting school administrators. (Z grade). (3).

Counselor Education—COUN

301. CHILD PSYCHOLOGY. Behavior of infants and children with reference to growth and learning as they influence individual development. (3).

303. MEASUREMENT AND EVALUATION. Nature of measurement evaluation; basic statistical concepts; evaluation as used in the instructional process; types of evaluation devices; teacher-made evaluation instruments. (3).

307. EDUCATIONAL PSYCHOLOGY. Application of principles of general and developmental psychology to the science of teaching; learning, motivation, psychological testing. (3).

309. PSYCHOLOGY OF ADOLESCENCE. Psychological principles underlying the mental, emotional, and socio-moral stresses of the preadolescent and adolescent. (3).

333. PSYCHOLOGY OF HUMAN GROWTH AND DEVELOPMENT. General survey of all aspects of psychological development from infancy through adolescence emphasized and additional focus on concepts and principles of learning. Prerequisite: PSY 204 recommended. (3).

503. PSYCHOMETRIC PRINCIPLES. Introduction to the principles and concepts basic to measurement. Test construction evaluation procedures, interpretation, and ethics related to testing are emphasized. Knowledge of basic statistical principles is required. Prerequisite: EDRS 501 or equivalent. (3).

523. GROUP STUDY OF PROBLEMS. Areas/problems approved by instructor. (For groups interested in improving areas/problems within an agency/system.) (Same as EDFD and EDSE 523). (Z grade). (3 or 6).

539. INTRODUCTION TO THE COUNSELING PROFESSION. History and overview of counseling as a profession. An introduction to philosophical foundations, multicultural factors, services, theories and systems, contributors, and ethics. (3).

545. LABORATORY: INTERPERSONAL COMMUNICATION SKILLS. Experimental seminar in communication skills and group methods; emphasis on dynamics of interpersonal relationships with consideration of current theoretical perspectives. (Z grade). (3).

551. INDIVIDUAL STUDY. Development of special projects under supervision. Prerequisite: consent of instructor. (1-6).

557. DATA PROCESSING IN SCHOOLS. Principles and administration of data processing in school systems. (Same as EDRS 557). (3).

570. MULTICULTURAL ISSUES IN COUNSELING. Introduction to cultural diversity issues and exploration of multicultural concepts related to the counseling profession. (3).

575. PSYCHOSOCIAL ASPECTS OF AGING. Introduction to gerontology with a foundation in biological, psychosocial and behavioral aspects of aging; emphasis on current research and experience working with older adults. (3).

593. TOPICS IN COUNSELING. Topical format to address areas of interest to professional counselors. May be repeated for credit. (3).

Foundations of Education–EDFD

507. CONTEMPORARY ISSUES IN AMERICAN EDUCATION. Significant current questions under discussion in American education. (3).

521. RECENT DEVELOPMENTS IN EDUCATIONAL PRACTICE. Investigation and evaluation of selected contemporary innovations in teaching and conducting educational programs. (3).

Educational Research–EDRS

405. INTRODUCTION TO EDUCATIONAL RESEARCH. An introduction to the research process and an investigation of the tools for conducting research with an emphasis on types of research design. (3).

501. EDUCATIONAL STATISTICS I. An introduction to descriptive and inferential statistical techniques with a particular emphasis on conceptual, computational, and computer applications. (3).

557. COMPUTERS IN EDUCATION. Principles and administration of data processing in school systems. (Same as EDPY 557). (3).

LEGAL STUDIES

Professor David H. McElreath, chair • Odom A

Professor Quarles • Associate Professor Bounds • Assistant Professor Williamson • Instructor Williams

Criminal Justice–CJ

271. INTRODUCTION TO THE CRIMINAL JUSTICE SYSTEM. Philosophical and historical backgrounds, agencies, and processes of the criminal justice systems in the United States. (3).

362. CRIMINAL JUSTICE ISSUES IN TERRORISM. Survey of the role of the criminal justice professional in combating terrorism in the modern world. (3).

365. COURT ADMINISTRATION. Analysis of modern management of trial and appellate courts at state and federal levels. (3).

371. CRIMINAL INVESTIGATION. Criminal investigation procedures, including theory of investigation, case preparation, specific techniques for selected offenses, questioning of suspects and witnesses, and problems in criminal investigation. (3).

372. POLICE PROCESSES AND POLICY. Systematic study of police administration; influences of social and political factors on police processes and policy making; effects of organizational arrangements; innovations in police operations; problems of institutional maintenance and internal control. (3).

373. POLICE MANAGEMENT SYSTEMS. Systematic professional relationships involved in historical and contemporary police agency management. (3).

374. SURVEY OF CRIMINALISTICS. Scientific crime detection methods; crime scene search, identification and preservation of evidence; lie detection, Modus Operandi; firearms identification, fingerprint identification, and related subjects. (3).

375. COMPARATIVE CRIMINAL JUSTICE SYSTEMS. Comparison of international contemporary and historic justice processes, including multi-language, multi-cultural, and multi-religious dimensions. The course compares laws, police procedures, court practices, and correctional processes. (3).

420. SELECTED TOPICS IN CRIMINAL JUSTICE. Study of topics related to criminal justice but not addressed in other courses within the department. May be repeated once for credit. (3).

472. SEMINAR IN POLICE PROBLEMS. Selected subject areas including patrol problems, minority group problems, labor-management disputes, riot prevention and control, legal restraints and police authority; policy guidelines. Prerequisite: consent of instructor. (May be repeated for credit with consent of instructor). (3).

473, 474. CRIMINAL LAW I, II. Sources of criminal law, elements of crime, parties to crime, criminal intent, corpus delicti, solicitation, conspiracy, attempt; crimes against person, property and society; defenses and privileges. (3, 3).

476. CRIMINAL PROCEDURE. Criminal procedure prior to trial affecting law enforcement officers; search, seizure, arrest, evidence, interrogation, confession, entrapment, arraignment, indictment, grand jury, bail, preliminary examinations. (3).

477. CRIMINAL JUSTICE THEORY. Values, ideals, and principles underlying the administration of criminal justice. Topics to include theories of justice and punishment, moral aspects of coercive control, and criminal justice as ideology. (3).

478. PROBATION AND PAROLE. Probation and parole in the criminal justice system; principles of diversion; models of programs; techniques and procedures. (3).

479. COLLOQUIUM IN CRIMINAL JUSTICE. Intensive examination of current developments and research in an area of criminal justice. (3).

498. INTERNSHIP IN CRIMINAL JUSTICE. Internship in an approved law enforcement agency under its supervision; book reports and written reports on internship required. Prerequisite: consent of instructor. (3-6). (Z-grade).

Paralegal Studies–LA

English 101 and LA 201 are prerequisites for all legal specialty courses above LA 201.

201. INTRODUCTION TO LAW. Survey of the development of the law and the role of law in our society; introduction to legal terminology and reasoning, substantive areas of the law, the legal profession, the paralegal profession, and legal ethics. (3).

202. LAW OFFICE MANAGEMENT. Study of the procedures, systems, and ethics of a law office, including timekeeping, file management, document management, library maintenance, and professional development of paralegals. (3).

301. LEGAL RESEARCH/WRITING I. How to use the law library, perform legal research, write legal memoranda, and use computers as research tools. Initial focus is on learning how to find legal materials, including federal and state case law, statutes, and administrative law. Use of finding tools such as digests, encyclopedias, and annotated law reports will be studied, as will Shepardizing. Focus also on legal writing from letters to memoranda. (3).

302. LEGAL RESEARCH/WRITING II. Advanced legal research, court rules, restatements, administrative decisions, drafting operative legal documents, memoranda of law to trial courts, and appellate briefs. (3).

303. CIVIL LITIGATION I. The fundamentals of bringing and defending a civil lawsuit with emphasis on the role played by paralegals. Includes introduction to court system; jurisdiction; rules of civil procedure and evidence; interviewing clients and witnesses; drafting of pleadings, motions, and other court papers; and ethical practices. (3).

304. CIVIL LITIGATION II. A continuation of the study of the litigation process from discovery to appeal, including drafting of documents, document control, and preparation of trial exhibits and notebooks. Prerequisite: LA 303. (3).

305. CRIMINAL LAW AND PROCEDURE. Covers the elements of crimes, the workings of the criminal justice system, and criminal trial practice, with special attention given to the assistance a paralegal may provide both to the prosecutor and defense counsel in the preparation of a criminal case. (3).

308. ADMINISTRATION OF WILLS AND ESTATES. Introduction to the basic concepts of inheritance and estates, probate procedure, and preparation of documents. (3).

310. REAL PROPERTY AND ABSTRACTING. Methods of recording and conveying land, including the preparation of instruments of title and abstracts of title. Survey of public records, including probate records, judgment rolls, tax records, etc. (3).

401. COMMERCIAL AND CONTRACTUAL RELATIONS. Focus on the common law of contracts from the formation of the contract to its termination. Introduction to Uniform Commercial Code. (3).

- 402. TORTS.** A study of the basic law relating to the civil wrong as applied to personal and property damage. (3).
- 403. BANKRUPTCY LAW.** Students learn the instructions for preparing bankruptcy case documents and specific procedures for filing documents. (3).
- 404. ADMINISTRATIVE LAW.** Prepares students for a career with a law firm involved in administrative agency practice such as employment discrimination and Social Security disability. Also prepares students for governmental and private industry work that involves working with administrative regulations. (3).
- 405. BUSINESS ORGANIZATIONS.** Provides basic understanding of agency law, employment law, business contract law, and the competencies necessary to assist an attorney in the formation and documentation required to form and operate sole proprietorships, general and limited partnerships, corporations, and limited liability companies. (3).
- 406. DOMESTIC LAW.** Focus on a comprehensive, substantive examination of the principles of domestic law and their application by paralegals, including requirements for valid marriage; dissolution of marriage by annulment, separation, and divorce; property rights; paternity, adoption, custody, and other parent/child relationships. (3).
- 408. MEDICAL LAW AND TERMINOLOGY.** Includes basic anatomy and physiology; reviewing medical literature and understanding common medical terminology. Litigation issues such as reading medical records, selecting an expert witness, preparing discovery for both plaintiff and defendant, and trial preparation. (3).
- 410. ALTERNATIVE DISPUTE RESOLUTION.** Provides students with an understanding of conflict and a working knowledge of the three major forms of dispute resolution in the legal field: negotiation, mediation, and arbitration. (3).
- 421. SELECTED TOPICS IN PARALEGAL STUDIES.** Study of topics related to paralegal studies but not addressed in other courses within the department. May be repeated once for credit. (3).
- 495. INTERNSHIP.** Supervised practical experience in private law offices, courts, government offices, or businesses. Minimum of 135 clock hours. Approval of paralegal studies faculty is required. Prerequisite: all required major courses. Corequisite: LA 496. (3).
- 496. INTERNSHIP SEMINAR.** Seminars designed to integrate classroom instruction with field experience, provide students with an opportunity to discuss mutual concerns, evaluate achievement of internship goals, and discuss ethics and professionalism. Must be taken concurrently with LA 495. Prerequisite: all major required courses. Corequisite: LA 495. (3).

LIBERAL ARTS—LIBA

Professor Glenn W. Hopkins, dean • Ventress Hall

- 101. INTRODUCTION TO OCCUPATIONAL/PHYSICAL THERAPY.** Group study of the roles and responsibilities of allied health professionals in providing care for special populations; review of legal and ethical considerations; supervised observation and hands-on experience as required for application to professional programs. Meets at the North Mississippi Regional Center. (Z grade). (2).
- 102. FIRST-YEAR SEMINAR.** A seminar restricted to first-year students designed to introduce them to the world of learning in a class discussion format. Topics vary among sections. Emphasis is placed on the development of students' writing, oral communication, and critical thinking skills. This course may be substituted for ENGL 102. (3).
- 201. INTERDISCIPLINARY STUDIES IN CULTURE.** Courses offered at other institutions and that involve the techniques or interests of more than one of the arts, social sciences, or humanities may be transferred as elective credit under this designation. The amount of credit to be awarded is at the discretion of the dean. (Z grade). (1-6).
- 301. FOREIGN STUDY.** Independent study projects undertaken in foreign cultures or foreign institutions with prior approval of department and dean. (Z grade). (1-24).
- 302. TOPICS IN LIBERAL ARTS ABROAD.** Students do departmentally approved course work at a foreign university. May be repeated with permission of dean's office. (1-6).
- 401. TOPICS IN THE LIBERAL ARTS.** This course serves as a vehicle for instruction, often interdisciplinary in nature, by distinguished visiting faculty with the College. Content and format vary. Prerequisite: consent of the dean. (May be repeated for credit). (Z grade). (1-3).

LINGUISTICS—LING

Professor Donald L. Dyer, adviser • 210B Bondurant East Hall

Professors Arrington, Dyer, Gutiérrez, Hall, Johnson, Lawhead, and Robinson • Associate Professors Coles and Payne • Assistant Professors Burkette, Major, and Wiggers

- 103. LOGIC: CRITICAL THINKING.** (Same as PHIL 103). (3).
- 205. ANATOMY AND PHYSIOLOGY OF THE SPEECH AND HEARING MECHANISMS.** (Same as CD 205). (3).
- 211. INTRODUCTION TO PHONOLOGY.** (Same as CD 211). (3).
- 216. NORMAL DEVELOPMENT OF COMMUNICATION.** (Same as CD 216). (3).
- 313. INTRODUCTION TO LINGUISTICS.** The study of human language. (Same as ANTH 313, ENGL 313, and MLLL 313). (3).
- 314. PHONOLOGY.** Human speech sounds and the sound systems of languages. (Same as ENGL 314 and MLLL 314). (3).
- 315. MORPHOLOGY.** Linguistic units of lexical meaning and grammatical and derivational function. (Same as ENGL 315 and MLLL 315). (3).
- 316. SYNTAX.** Words interacting in larger units such as the sentence, as well as a survey of syntactic models. (Same as ENGL 316 and MLLL 316). (3).
- 320. SOCIOLINGUISTICS.** Survey of language variation; quantitative and qualitative methodologies; societal norms for language behavior and attitudes toward speech. (Same as ENGL 355). (3).
- 335. SEMANTICS.** Meaning of the linguistic form at its various levels. (Same as ENGL 335). (3).
- 350. STRUCTURE OF A LESS COMMONLY TAUGHT LANGUAGE.** Structural analysis of a less commonly taught language or group of languages. Approval of the program director is required. (3).
- 353. LANGUAGE AND CULTURE.** (Same as ANTH 353). (3).
- 359. MANUAL COMMUNICATION.** (Same as CD 359). (3).
- 401. ADVANCED ENGLISH GRAMMAR.** (Same as ENGL 401). (3).
- 430. DISCOURSE PRAGMATICS.** Spoken language in context; discourse analysis and speech styles. (Same as ENGL 430 and MLLL 430). (3).
- 435. DIALECTOLOGY.** American English dialects with regard to region, ethnicity, gender, and social status. (Same as ENGL 434 and GST 420). (3).
- 438. LANGUAGE AND GENDER.** (Same as GST 438 and MLLL 438). (3).
- 499. RESEARCH THESIS.** Approval of the program director is required. (3).
- 501. DESCRIPTIVE GRAMMAR.** (Same as ENGL 501). (3).
- 502. HISTORICAL LINGUISTICS.** (Same as ENGL 502). (3).
- 503. HISTORY OF THE ENGLISH LANGUAGE.** (Same as ENGL 505). (3).
- 505. NEUROPHYSIOLOGY OF COMMUNICATION.** (Same as CD 505). (3).
- 506. HUMAN LEARNING AND COGNITION.** (Same as PSY 506). (3).
- 508. SYMBOLIC LOGIC.** (Same as PHIL 508). (3).
- 513. SPEECH SCIENCE.** (Same as CD 513). (3).
- 519. PHILOSOPHY OF LANGUAGE.** (Same as PHIL 519). (3).
- 540. SPECIAL TOPICS IN LINGUISTICS.** (Same as MLLL 541). (3).
- 541. ADVANCED STUDY OF NORMAL LANGUAGE DEVELOPMENT.** (Same as CD 541). (3).
- EDCI 542. TEACHING ENGLISH AS A FOREIGN LANGUAGE.** (3).
- 552. PHONETICS AND PHONOLOGY OF FRENCH.** (Same as FR 572). (3).
- 554. HISTORY OF FRENCH.** (Same as FR 574). (3).
- 555. TOPICS IN APPLIED FRENCH LINGUISTICS.** (Same as FR 575). (3).
- 562. PHONETICS AND PHONOLOGY OF GERMAN.** (Same as GERM 572). (3).
- 564. HISTORY OF GERMAN.** (Same as GERM 574). (3).
- 565. TOPICS IN APPLIED GERMAN LINGUISTICS.** (Same as GERM 575). (3).
- 572. PHONETICS AND PHONOLOGY OF SPANISH.** (Same as SPAN 572). (3).

- 573. MORPHOLOGY AND SYNTAX OF SPANISH.** (Same as SPAN 573). (3).
574. HISTORY OF SPANISH. (Same as SPAN 574). (3).
575. TOPICS IN APPLIED SPANISH LINGUISTICS. (Same as SPAN 575). (3).
592. MODERN ENGLISH GRAMMAR. (Same as ENGL 592). (3).
595. SEMINAR IN LINGUISTICS. (Same as ANTH 595 and ENGL 595). (3).

MANAGEMENT

Associate Professor Dwight D. Frink, chair • 327 Holman Hall

Professors Harvey, Paolillo, and Robinson • Associate Professors Canty, Krapels, and Martin • Assistant Professors Alli, Davis, Dorn, Hamilton, Littlejohn, Novicevic, Treadway, and C. Walker

Management—MGMT (*See Management Information Systems/Production-Operations Management for additional management courses.*)

- 371. PRINCIPLES OF MANAGEMENT.** Principles and concepts of planning, organizing, controlling, and operating a business enterprise with emphasis on these problems in production. Prerequisite: junior standing. (3).
- 383. HUMAN RESOURCE MANAGEMENT.** Principles and procedures relating to human resource management including staffing, appraisal, training, compensation, and other programs for organizations. Prerequisites: MGMT 371 or consent of instructor. (3).
- 391. ORGANIZATIONAL BEHAVIOR.** An integration of behavioral science concepts as applied to business and industry; theories dealing with individuals, small groups, and communications in organizations. Prerequisite: junior standing. (3).
- 392. INTERCULTURAL BUSINESS COMMUNICATION.** Study of the importance of business communication to conducting global business effectively. Emphasis on organizational and interpersonal communication and negotiation skills in an integrated world economy. Prerequisites: BUS 271 and MGMT 371, or consent of instructor. (3)
- 484. TRAINING AND DEVELOPMENT.** Theory and application of training and development process for organizations. Topics include scientific issues, such as learning theory, and applied issues, such as needs analysis, cost benefit analysis, program analysis, and training methodologies. Prerequisite: MGMT 383 or consent of instructor. (3)
- 485. SELECTION AND PLACEMENT.** Theory and application of selection processes for organizational staffing. Topics include scientific issues such as validity and reliability, legal issues such as affirmative action and civil rights, and applied issues such as selection methodology and techniques. Prerequisite: MGMT 383 or consent of instructor. (3)
- 493. MANAGEMENT OF STRATEGIC PLANNING.** A theory-based course which is designed to integrate the various functional areas of business through the study and discussion of actual strategic planning situations, including their ethical and global implications. Prerequisites: FIN 331, MKTG 351, MGMT 372, and senior standing. (3).
- 494. COMPENSATION MANAGEMENT.** Examination and evaluation of the compensation subsystem as a vital component in establishing a workplace system that stimulates employee performance. Includes job analysis, job evaluation, and wage payment methods. Prerequisites: MGMT 383. (3).
- 495. LEADERSHIP AND GROUP DYNAMICS.** The study of leadership and group processes in organizations with an emphasis on developing interpersonal skills, teamwork and a keen awareness of how to lead and work with groups. Prerequisites: MGMT 371 and MGMT 391. (3)
- 496. SMALL BUSINESS MANAGEMENT.** Focus is on the special problems and skills involved in small business. The course will integrate the skills and concepts developed in accounting, finance, marketing, management, personnel and production. Prerequisite: ACCY 301, FIN 331, MGMT 371, MKTG 351, or consent of instructor. Senior standing only. (3).

527. ADVANCED HUMAN RESOURCE MANAGEMENT. The study of personnel management at the advanced level necessary for professional preparation. Course topics will include selection, placement, training, compensation, incentives, performance evaluation and counseling, with an emphasis on legal and practical problems. Prerequisites: MGMT 383 and senior standing or graduate, or consent of instructor. (3).

578. HISTORY OF MANAGEMENT THOUGHT. Contrasting philosophy of management, historical development of management theory, and current issues in management practices. Prerequisites: MGMT 371, senior standing or graduate. (3).

581. COLLECTIVE BARGAINING. An introductory course to the field of collective bargaining in the private and public sectors covering such topics as the history of unionism in America, the organizing process, the negotiating process, and administration of the collective bargaining agreement. Emphasis on pragmatic problems confronted by employers, employees, and unions. (Same as ECON 581). Prerequisites: MGMT 383 and senior standing or graduate. (3).

582. EMPLOYEE RELATIONS. Study of the federal regulation of private and public sector human resource management practices. Emphasis on recruiting, selection, employee discipline, equal opportunity compliance, workplace privacy, mandatory benefits, and fair labor standards. Prerequisite: MGMT 383 and senior standing or graduate. (3)

583. LABOR RELATIONS. An advanced course analyzing the evolution and impact of labor law in the United States. The growth of unions, the Railway Labor Act, the Norris-LaGuardia Act, and Fair Employment Law are emphasized using the case approach. (Same as ECON 583). Prerequisites: MGMT 383 and senior standing or graduate. (3).

585. STRATEGIC HUMAN RESOURCE MANAGEMENT. Formulation and implementation of HR policy, at the strategic level of an organization. Emphasis on the impact of organizational strategic policy on human resource acquisition and placement, and environmental factors affecting this process. Also, strategies for maximizing HR productivity are introduced. Prerequisites: MGMT 383, MGMT 527, MGMT 582, and senior standing or graduate, or consent of instructor. (3)

587. ORGANIZATION THEORY. Traditional and contemporary organization theories with emphasis on current research and problem solving. (3).

595. INTERNATIONAL BUSINESS MANAGEMENT. Analysis of international management concepts and practices; environmental interactions, social and cultural constraints, organizational structures, and systems of operation. Prerequisites: MGMT 371 and senior standing or graduate. (3).

MANAGEMENT INFORMATION SYSTEMS/PRODUCTION- OPERATIONS MANAGEMENT

Associate Professor Milam Aiken, chair • 334 Holman Hall

Professor Reithel • Associate Professors Alidaee, Conlon, Dula, and Rego • Assistant Professors Ammeter, Garner, K. Lewis, and M. Lewis

Management Information Systems–MIS

100. MICROCOMPUTER FOUNDATIONS. (No credit) A remedial course for students not yet prepared to take MIS 241. This is a nontechnical microcomputer proficiency course that covers fundamental principles of using operating system software, word processing software, spreadsheet software and common hardware. (0).

241. MANAGEMENT INFORMATION SYSTEMS I. Principles of computer-based information systems and end-user application development in a business environment. This course will focus on current information technology and its impact on individual and organizational performance. Prerequisite: successful completion of MIS Basic Skills Competency Exam. (3).

280. BUSINESS APPLICATION PROGRAMMING I. Study of graphical user interface design, arrays, procedures, database file access, drag-and-drop, graphics, animation, and custom controls and objects. Experience in computer program analysis, design, and implementation for business applications. Prerequisites: CSCI 111 and CSCI 112. (3)

307. SYSTEMS ANALYSIS AND DESIGN. The first course in a two-course sequence in systems analysis and design. The course covers development methodologies, application systems development management, behavioral aspects of the development process, problems and feasibility assessment, information requirements determination, communication skills, interpersonal skills, logical specification, and physical design. Prerequisites: MIS 241 and CSCI 111. (3).

309. MANAGEMENT INFORMATION SYSTEMS II. The study of management information systems and decision support systems with a focus on computer-based model development techniques. This course also covers the relationship among advanced information technologies, business processes, and organizational performance. Prerequisites: MIS 241 and successful completion of MIS Basic Skills Competency Exam. (3).

330. BUSINESS APPLICATION PROGRAMMING II. Advanced study of object-oriented design and programming for business applications. Topics to be covered include classes and objects, applets, containers, multithreading, IO streams and sockets, packages, and scripts. Prerequisite: MIS 280. (3)

405. DISTRIBUTED BUSINESS INFORMATION SYSTEMS. Strategies and techniques for development of distributed business applications, with a focus on systems that can scale from very small to very large groups of users. Distributed server management concepts also will be covered. (3).

408. ADVANCED MANAGEMENT INFORMATION SYSTEMS. A study of data structures, file processing, databases and database management systems within organizations. The course covers all logical models of database, i.e., hierarchical, network, and relational models. Also covered are data analysis, design, implementation, and administration. Prerequisites: MIS 307 and MIS 309. (3).

409. APPLICATIONS OF DATABASE MANAGEMENT. Techniques and concepts obtained in MIS 408 are used in the design, development, implementation and maintenance of files and databases. Prerequisite: MIS 408. (3).

410. DECISION SUPPORT SYSTEMS. A study of decision support systems in terms of the roles an individual assumes in developing the components of a DSS, i.e., DSS builder, intermediary and technical adviser. Included are topics in expert systems and artificial intelligence. Prerequisite: MIS 309. (3).

419. APPLICATIONS OF MANAGEMENT INFORMATION SYSTEMS. A policy course to bring together the concepts and techniques developed in other MIS courses. Emphasis on group and/or individual projects and cases. Prerequisite or corequisite: MIS 410 and MIS 495. (2).

495. APPLIED SYSTEMS ANALYSIS AND DESIGN. An applications course which builds on the concepts and techniques developed in MIS 307 to enable students to design and implement systems in "real-world" organizations. Prerequisite: MIS 307, 309, or consent of instructor. (3).

Production-Operations Management–MGMT

372. OPERATIONS MANAGEMENT I. Survey of production operations functions; basic procedures and techniques in the design and analysis of operating systems. Prerequisite: BUS 230 or equivalent statistics course. (3).

475. OPERATIONS MANAGEMENT II. Advanced procedures and techniques related to operations management; problem identification and feasible solution methods. Prerequisite: MGMT 372 or consent of instructor. (3).

577. OPERATIONS PLANNING AND CONTROL. Planning and control of operating systems; quality control, inventory control, maintenance, and product planning. Prerequisite: BUS 230, MGMT 372, 475, or consent of instructor. (3).

579. DECISION SYSTEMS. Systems models for decision-oriented problems and computer solution methods; description problems and techniques for resource allocation. Prerequisites: BUS 230, MGMT 372, 475, or consent of instructor. (3).

MARINE BIOLOGY *See the Department of Biology.*

MARKETING

Professor Scott J. Vitell, Jr., chair • 368 Holman Hall

Professors Ingene and Vitell • Associate Professors Bush and Sloan • Assistant Professors Cousley, Cosenza, Garg, Govind, C. Noble, S. Noble, Southern, and Vorhies

Marketing—MKTG

351. MARKETING PRINCIPLES. Basic principles and methods of marketing consumer and industrial goods; functions and institutions involved in marketing processes. Prerequisite: junior standing. (3).

353. ADVERTISING & PROMOTION. Planning and analysis of promotion mix, including advertising principles, consumer trends affecting advertising, media selection, layout techniques, and advertising research. Prerequisite: MKTG 351. (3).

354. BUYER-SELLER COMMUNICATIONS. Fundamentals of communication theory and correct sales principles needed for a successful career in sales; insight into the importance of communications in buyer-seller relations. Prerequisite: MKTG 351. (3).

356. ENVIRONMENTAL ISSUES IN MARKETING. Environmental forces that serve as constraints on the business decision maker. Current issues and social and ethical implications of marketing decisions. Prerequisite: MKTG 351. (3).

358. INDUSTRIAL MARKETING. Principles, policies, and methods in the marketing of industrial goods; purchasing procedures and practices, decision making in all phases of industrial marketing systems. Prerequisite: MKTG 351. (3).

367. CONSUMER AND MARKET BEHAVIOR. Managerial function in market planning, with emphasis on consumer behavior; role of marketing systems in responding to consumer wants and preferences. Prerequisite: MKTG 351. (3).

458. SALES MANAGEMENT. Problems from the viewpoint of the sales executive, case study of sales planning, organization, quotas, and sales control. Prerequisite: MKTG 351. (3).

462. DISTRIBUTION MANAGEMENT. Planning analysis, and the management of physical distribution functions, and the management of institutional intermediaries involved in the distribution task. Prerequisites: MKTG 351, BUS 230, senior standing. (3).

488. RETAIL STRATEGY. An evolutionary perspective on optimal usage of the marketing mix. Focus is on how changes in economic, demographic, and technological factors induce (1) alterations in consumers' store choice and product-choice decisions and (2) modifications in the nature and scope of competition. Prerequisite: MKTG 351; senior standing. (3).

494. PHARMACEUTICAL ECONOMICS. Pharmacoeconomics is the description and analysis of the costs of drug therapy to health-care systems and society. Pharmacoeconomic research identifies, measures, and compares the costs (i.e., resources consumed) and consequences of pharmaceutical products and services. (Same as PHAD 494). (3).

495. TECHNIQUES OF PHARMACEUTICAL SALES. To introduce various strategies and tactics available to those who represent the pharmaceutical industry to therapy decision-makers. (Same as PHAD 495). (2).

496. PRINCIPLES OF PHARMACEUTICAL MARKETING. The nature and scope of the pharmaceutical industry, its marketing practices and environment with emphasis on skills and techniques used in the efficient administration of a pharmaceutical sales program. Prerequisite: junior standing and consent of instructor. (Same as PHAD 496). (3).

525. MARKETING RESEARCH. The role of research in marketing decision making, research design and methodology, appraisal of alternative research methods, concepts of dealing with and collecting primary data. Prerequisites: BUS 230, BUS 302, MIS 309 and MKTG 351 or equivalent courses; senior standing or higher. (3).

551. MARKETING POLICY AND STRATEGY. An integrated analytical approach to the study of a company's marketing management program; emphasis on marketing planning and programming for optimum profitability. Prerequisites: senior standing; 15 hours of marketing courses, to include 351, 367. (3).

552. MULTINATIONAL MARKETING. Study of the initiation and implementation of multinational trade; emphasis on the marketing aspects of foreign market penetration. Prerequisites: MKTG 351; senior standing or higher. (3).

565. ADVANCED ADVERTISING. Problems of the advertising manager; planning, preparation, and evaluation of advertising campaigns. Prerequisites: MKTG 351, 353; senior standing or higher. (3).

MATHEMATICS—MATH

Associate Professor Tristan Denley, chair • 305 Hume Hall

Professors Buskes, Hopkins, Labuda, Paterson, Reid, and Staton • Associate Professors Armstrong, Cole, Denley, and Kranz • Assistant Professors Mathur, Peng, Sheppardson, Wei, and Wu

115. ELEMENTARY STATISTICS. Descriptive statistics; probability distributions; sampling distributions; estimation; hypothesis testing; and linear regression. (3).

120. QUANTITATIVE REASONING. Statistical reasoning, logical statements and arguments, personal business applications, linear programming, estimations, and approximation. (3).

121. COLLEGE ALGEBRA. (3).

123. TRIGONOMETRY. (3).

125. BASIC MATHEMATICS FOR SCIENCE AND ENGINEERING. A unified freshman course designed especially for those students requiring a review of both algebra and trigonometry before beginning the calculus sequence. (3).

245. MATHEMATICS FOR ELEMENTARY TEACHERS I. Introduction to sets; the real number system and its subsystems. (For elementary and special education majors only). (3).

246. MATHEMATICS FOR ELEMENTARY TEACHERS II. Informal geometry; measurement and the metric system; probability and statistics. (For elementary and special education majors only). Prerequisite: MATH 245. (3).

261, 262, 263, 264. UNIFIED CALCULUS AND ANALYTIC GEOMETRY I-IV. Differential and integral calculus; analytic geometry introduced, covered in integrated plan where appropriate. (Four-term sequence for engineering and science majors; 262 terminal course for nonscience major). (3, 3, 3, 3).

267, 268. CALCULUS FOR BUSINESS, ECONOMICS AND ACCOUNTANCY; I, II. Differential and integral calculus with an emphasis on business applications. (3,3).

269. ELEMENTARY MATHEMATICAL ANALYSIS III. Selected topics in quantitative methods with an emphasis on business applications. Topics include Gauss-Jordan elimination, simplex solutions for linear programming models and transportation and assignment algorithms. Prerequisite: MATH 267. (3).

281. COMPUTER LABORATORY FOR CALCULUS I. Investigation of the techniques in Calculus I (Math 261) through the use of a computer. Corequisite: 261. (1).

282. COMPUTER LABORATORY FOR CALCULUS II. Investigation of the techniques in Calculus II (Math 262) through the use of a computer. Corequisite: MATH 262. (1).

283. COMPUTER LABORATORY FOR CALCULUS III. Investigation of the techniques in Calculus III (Math 263) through the use of a computer. Corequisite: MATH 263. (1).

284. COMPUTER LABORATORY FOR CALCULUS IV. Investigation of the techniques in Calculus IV (Math 264) through the use of a computer. Corequisite: MATH 264. (1).

301. DISCRETE MATHEMATICS. Elementary counting principles; mathematical induction; inclusion-exclusion principles; and graphs. Prerequisite: MATH 261. (3).

302. APPLIED MODERN ALGEBRA. Languages, generating functions, recurrence relations, optimization, rings, groups, coding theory, and Polya theory. Prerequisite: MATH 301. (3).

305. FOUNDATIONS OF MATHEMATICS. Set theory with emphasis on functions, techniques used in mathematical problems, cardinal numbers. Prerequisite: MATH 262. (3).

319. INTRODUCTION TO LINEAR ALGEBRA. Vectors, matrices, determinants, linear transformations, introduction to vector spaces. Prerequisite: MATH 262. (3).

353. ELEMENTARY DIFFERENTIAL EQUATIONS. Equations of first and second order; linear equations with constant coefficients; solution in series. Corequisite: MATH 264. (3).

368. INTRODUCTION TO OPERATIONS RESEARCH. An introduction to the mathematics involved in optimal decision making and the modeling of deterministic systems. Major topics to include linear programming, the simplex method, transportation algorithms, integer programming, network theory, and CPM/PERT. Prerequisite: MATH 319. (3).

375. INTRODUCTION TO STATISTICAL METHODS. Probability; distributions; joint probability distributions; conditional distributions; marginal distributions; independence; probability distributions; simple regression; simple correlation and tests of significance; introduction to the use of statistical software packages. Prerequisite: MATH 262. (3).

390. TECHNIQUES IN TEACHING SECONDARY LEVEL MATHEMATICS. Teaching techniques for algebra, geometry, trigonometry, and calculus are presented and discussed. For mathematics education majors only. (3).

397. SPECIAL PROBLEMS. (May be repeated for credit). (1-3).

425. INTRODUCTION TO ABSTRACT ALGEBRA. Real number system, groups, rings, integral domains, fields. Prerequisite: MATH 263. (3).

454. INTERMEDIATE DIFFERENTIAL EQUATIONS. Certain special methods of solution; systems of equations; elementary partial differential equations; equations occurring in physical sciences. Prerequisite: MATH 353. (3).

459. INTRODUCTION TO COMPLEX ANALYSIS. Complex numbers, complex differentiation, the Cauchy-Riemann equations and applications; the Cauchy integral formula, contour integration, series. Prerequisite: MATH 264. (3).

461, 462. NUMERICAL MATHEMATICAL ANALYSIS I, II. (3, 3).

475. INTRODUCTION TO MATHEMATICAL STATISTICS. Data analysis; moment characteristics; statistical distributions, including Bernoulli, Poisson, and Normal; least squares, simple correlation, and bivariate analysis; applications and use of statistical software packages. Prerequisite: MATH 375. (3).

501, 502. GENERAL TOPOLOGY I, II. Metric spaces, continuity, separation axioms, connectedness, compactness, and other related topics. Prerequisite: MATH 556. (3, 3).

513, 514. THEORY OF NUMBERS I, II. Congruences; divisibility; properties of prime numbers; arithmetical functions; quadratic forms; quadratic residues. (3, 3).

519. MATRICES. Basic matrix theory, eigenvalues, eigenvectors, normal and Hermitian matrices, similarity, Sylvester's Law of Inertia, normal forms, functions of matrices. Prerequisite: MATH 319. (3).

520. LINEAR ALGEBRA. An introduction to vector spaces and linear transformations; eigenvalues and the spectral theorem. (3).

525, 526. MODERN ALGEBRA I, II. General properties of groups, rings, and fields; introduction to ideal theory. (3, 3).

533. TOPICS IN EUCLIDEAN GEOMETRY. A study of incidence geometry; distance and congruence; separation; angular measure; congruences between triangles; inequalities; parallel postulate; similarities between triangles; circles area. (3).

537. NON-EUCLIDEAN GEOMETRY. Brief review of the foundation of Euclidean plane geometry with special emphasis given the Fifth Postulate; hyperbolic plane geometry; elliptic plane geometry. (3).

540. HISTORY OF MATHEMATICS. Development of mathematics, especially algebra, geometry, and analysis; lives and works of Euclid, Pythagoras, Cardan, Descartes, Newton, Euler, and Gauss. Prerequisite: Math 305 or consent of instructor.

545. SELECTED TOPICS IN MATHEMATICS FOR SECONDARY-SCHOOL TEACHERS. High school subjects from an advanced point of view and their relation to the more advanced subjects. (3).

555, 556. ADVANCED CALCULUS I, II. Limits, continuity, power series, partial differentiation; multiple, definite, improper, and line integrals; applications. Prerequisite: MATH 305 or consent of instructor. (3, 3).

567, 568. INTRODUCTION TO FUNCTIONAL ANALYSIS I, II. Prerequisite: 556 or consent of instructor. (3, 3).

572. INTRODUCTION TO PROBABILITY AND STATISTICS. Emphasis on standard statistical methods and the application of probability to statistical problems. Prerequisite: MATH 261-264. (3).

573. APPLIED PROBABILITY. Emphasis on understanding the theory of probability and knowing how to apply it. Proofs are given only when they are simple and illuminating. Among topics covered are joint, marginal, and conditional distributions, conditional and unconditional moments, independence, the weak law of large numbers, Tchebycheff's inequality, Central Limit Theorem. Prerequisite: MATH 261-264. (3).

574. PROBABILITY. Topics introduced in MATH 573 will be covered at a more sophisticated mathematical level. Additional topics will include the Borel-Cantelli Lemma, the Strong Law of Large Numbers, characteristic functions (Fourier transforms). Prerequisite: MATH 573. (3).

575, 576. MATHEMATICAL STATISTICS I, II. Mathematical treatment of statistical and moment characteristics; frequency distribution; least squares; correlation; sampling theory. (3, 3).

577. APPLIED STOCHASTIC PROCESSES. Emphasis on the application of the theory of stochastic processes to problems in engineering, physics, and economics. Discrete and continuous time Markov processes, Brownian Motion, Ergodic theory for stationary processes. Prerequisite: MATH 573 or consent of instructor. (3).

578. STOCHASTIC PROCESSES. Topics will include General Diffusions, Martingales, and Stochastic Differential Equations. (3).

590. TECHNIQUES IN TEACHING COLLEGE MATHEMATICS. Directed studies of methods in the presentation of college mathematics topics, teaching and testing techniques. This course is required of all teaching assistants, each semester, and may not be used for credit toward a degree. Z grade. Prerequisite: departmental consent. (1-3).

597. SPECIAL PROBLEMS. (1-3).

MECHANICAL ENGINEERING—M E

Professor Jeffrey A. Roux, chair • 201 Carrier Hall

Professors Mantena, Smith, Vaughan, and Wang • Associate Professors Lackey, McCarty, and Sinha • Research Professor Seiner • Research Assistant Professors Chambers, Gui, and Ukeiley • Adjunct Professor Sharma

324. INTRODUCTION TO MECHANICAL DESIGN. The design process and methodology, analysis, synthesis, application of fundamentals to specific machine components, feasibility including economic and human factors, social significance, creativity, communication, ethics, and professionalism. Prerequisites: ENGR 309, 312; (2 lectures, 1 practicum). (3).

325. INTERMEDIATE DYNAMICS. Continuation of ENGR 309. Rigid body dynamics, vibrations, Lagrangian formulations; application to mechanical engineering problems. Prerequisite: ENGR 309. (3).

399. THERMODYNAMICS II. Continuation of ENGR 321. Application to vapor and gas cycles; introduction to performance, introduction to statistical thermodynamics. Prerequisite: ENGR 321. (3).

401. THERMO-FLUID DYNAMICS. The conservation equations and laws of thermodynamics are used in formulating and solving problems in compressible gas dynamics, reacting flows, boundary layers, heat transfer, and plasma dynamics. Prerequisites: ENGR 322. (3).

402. ELEMENTS OF PROPULSION. An application of the principles of gas dynamics and physical laws to the analysis, performance estimation, and design of air-breathing propulsion devices, including the ramjet, turbojet, turbofan, and turboprop engines. Prerequisite: ME 401. (3).

404. APPLIED FLUID MECHANICS. Review of hydrostatics and dynamics, dimensional analysis and modeling, analysis and design of fluid mechanical systems including open channels, pipe networks, turbomachinery, and aerodynamic bodies. Prerequisite: ENGR 322. (Same as C E 442). (3).

405. MODERN ENERGY CONVERSION. Consideration of high power density conversion such as magnetohydrodynamics, fuel cells and electro-mechanical conversion. Prerequisite: ME 401. (3).

416. STRUCTURES AND DYNAMICS LABORATORY. Introduction to the basic and latest instrumentation related to static and dynamic measurements and methods of collecting and analyzing experimental data; experiments chosen to reinforce basic static and dynamic theories. Prerequisites: ENGR 312, ME 325. Corequisite: ENGR 310 or consent of instructor. (1).

417, 418. PROJECTS. Approved investigation of original problem under direction of a staff member. Corequisite: ENGR 309, 321. (1-3, 1-3).

419. ENERGY AND FLUIDS LABORATORY. Laboratory experiments demonstrating fundamental laws and use of scientific instruments in thermodynamics, heat transfer and fluid flow. Prerequisite: ENGR 322. (1).

420. EXPERIMENTAL MECHANICAL ENGINEERING II. Experimental laboratory with student-designed experiments, either modification of current experiments or new ones using more general purpose equipment. Prerequisite: ME 419. (1).

- 421. STRUCTURAL ANALYSIS.** Classification and analysis of simple structural systems; ASCE-7 provisions for minimum loads; virtual work and virtual displacement methods; introduction to flexibility and displacement matrix methods; stiffness matrices for rod, frame, and slab elements; computational tools. Prerequisite: ENGR 312 (Same as CE 411). (3).
- 422. STRUCTURAL DESIGN I.** Design of steel and concrete structural members according to ACI and AISC LRFD specifications; reinforced concrete and rolled steel sections subject to axial force, flexure, shear, torsion, and combined loading; fatigue and fracture; introduction to connections. (Same as CE 412). Corequisite: ME 421. (3).
- 427. KINEMATIC ANALYSIS AND SYNTHESIS.** Lectures introduce the kinematic design of mechanisms such as linkages, cams, gears and gear trains; motion of such mechanisms, their velocities and accelerations are analyzed by graphical, analytical, and computer aided design methods of synthesis and optimization. Lecture and projects. Prerequisite: ME 324. Corequisite: ENGR 330. (4).
- 428. DYNAMICS OF MACHINERY.** Force analysis of machinery; engine dynamics and flywheel design; balancing of rotors and reciprocating masses; single and multicylinder engine design; shafts and cam dynamics. Prerequisite: ME 427. (3).
- 438. MECHANICAL ENGINEERING DESIGN.** Design projects involving the fabrication and testing of a prototype; and/or selection of new design projects addressing realistic constraints such as safety, cost, reliability, aesthetics, ergonomics, ethics, and social impact. Corequisite: ME 428. (3).
- 521, 522. PROJECTS.** Approved investigation of problem under direction of a staff member. (3, 3).
- 523, 524. SPECIAL TOPICS IN MECHANICAL ENGINEERING.** Supervised reading of specialized topics beyond these available in existing courses. Prerequisite: consent of instructor. (3, 3).
- 525. ADVANCED DYNAMICS.** Rigid body dynamics, vibrations, Lagrangian and Hamiltonian formulations; application to mechanical engineering problems. Prerequisite: ME 325. (3).
- 526. EXPERIMENTAL METHODS.** Generalized theory for designing engineering experiments, processing experimental data, including proper procedures for handling time varying quantities and uncertainties. Some state-of-the-art techniques will be used to illustrate the theory. (3).
- 527. MATERIALS PROCESSING.** Metal processing including casting, forging, press operation machining; plastic fabrication including casting, molding, press forming; tool and die designs; coatings. Prerequisite: ME 427. (3).
- 528. POLYMER PROCESSING.** Analytical non-Newtonian fluid mechanical approach to polymer processing techniques: calendars, screw pumps, extruders, mixing, injection molding, and bonding operations. Prerequisite: ENGR 322. (3).
- 530. PHYSICAL METALLURGY.** Application of chemical and microstructural control for understanding material behavior. Topics include a survey of relevant areas of thermodynamics and kinetics, phase diagrams, diffusions, solidifications, solid state transformations, recovery, recrystallization, and grain growth. Prerequisite: ENGR 313. (3).
- 531. MECHANICAL BEHAVIOR OF ENGINEERING MATERIALS.** The dislocation concept of plastic deformation is introduced and used to explain the relationships between microstructure and mechanical properties. The phenomena of strain hardening, creep, fatigue, and fracture are discussed in detail. Prerequisite: ENGR 313. (3).
- 532. GLASSES AND CERAMICS.** The application of atomic structure to a study of physical properties of amorphous systems and ceramics. Topics include classical ceramic bodies, glasses, refractories, cermets, cements, and electronic ceramics. Prerequisite: ENGR 313. (3).
- 533. ELECTRONIC PROPERTIES OF MATERIALS.** Theories of electron/atom interactions and electron transport are examined to explain the electronic properties of solids. Junctions, magnetic and optical properties are also discussed with special emphasis on semiconducting materials. (3).
- 534. PROPERTIES AND SELECTION OF MATERIALS.** Fundamental relationships that govern the properties of materials will be examined and used to optimize the selection of engineering materials. Materials covered will include metals, plastics, ceramics, and composites. (3).
- 535. EXPERIMENTAL STRESS ANALYSIS.** The theories of experimental stress analysis techniques are examined in detail with special emphasis on the application of strain measurement methods, brittle coatings, transmission and reflection photoelasticity. (3).
- 538. EXPERIMENTAL CHARACTERIZATION OF POLYMER COMPOSITES.** Methods for the experimental characterization of polymeric composites. Topics include testing standards, test methods, and data analysis procedures. Prerequisites: ENGR 313, 314. (3).
- 540. FAILURE ANALYSIS.** Tools, techniques, and theories of failure analysis. Topics include failure analysis tools, mechanical aspects of failure analysis, microfractographic features, macrofractographic features, and the role of failure in design. Prerequisites: ENGR 313, 314. (3).

555. HEATING, VENTILATING, AND AIR-CONDITIONING. The theory and design of heating, ventilating, and air-conditioning systems for buildings with emphasis on using the fundamental principles of thermodynamics, heat transfer, and fluid mechanics and current technology to meet energy conservation standards and environmental regulations. Prerequisites: ENGR 321, 322. (3).

MEDICAL TECHNOLOGY *See the College of Liberal Arts section on Health Professions.*

MEDICINAL CHEMISTRY—MEDC

Professor Mitchell Avery, interim chair • 417 Faser Hall

Professors Borne and Williamson • Associate Professor Rimoldi • Assistant Professors Doerksen and McCurdy

NOTE: A grade of at least C is required on all prerequisite courses.

314. PRINCIPLES OF MEDICINAL CHEMISTRY. An introduction to the chemical and physical properties of medicinal agents. (3).

315. LABORATORY PRINCIPLES OF MEDICINAL CHEMISTRY. A laboratory introduction to the chemical and physical properties of medicinal agents. (1).

317. PHARMACOGENETICS AND PHARMACOIMMUNOLOGY. A detailed introduction to the basic concepts of molecular genetics, biotechnology, and immunology of life processes that provide an essential foundation for rational drug therapy. Prerequisites: PHCL 343. (3).

411. MEDICINAL CHEMISTRY OF THERAPEUTIC AGENTS I. Discussion of relationships of structural properties of drugs to pharmacological properties, absorption, distribution and metabolism profiles, chemical stability, mechanism of action and clinically significant drug interactions. Prerequisite: MEDC 314 (also prerequisite to or co-enrollment with PHCL 443). (3).

412. MEDICINAL CHEMISTRY OF THERAPEUTIC AGENTS II. Continuation of MEDC 411. Prerequisite: MEDC 411 (also prerequisite to or co-enrollment with PHCL 444). (3).

501. ADVANCED MEDICINAL CHEMISTRY I. Advanced study of organic medicinal agents with emphasis on names, synthesis, chemical properties, and pharmacological properties. Readings in the current literature required. Prerequisite: consent of department. (3).

502. ADVANCED MEDICINAL CHEMISTRY II. Continuation of Medicinal Chemistry 501. Readings in the current literature required. Prerequisite: MEDC 501. (3).

503. MEDICINAL CHEMISTRY RESEARCH METHODOLOGY. A "hands-on" introduction to the practical aspects of the chemical methodology necessary to conduct medicinal chemistry research, including separation and purification technology, spectroscopic techniques, and medicinal chemistry literature searching. (3).

507. ORGANIC CHEMISTRY OF DRUG SYNTHESIS. Discussion of the synthetic approaches to many of the therapeutic classes of drugs studied in medicinal chemistry courses with an accent on the relationship of chemical structure to improved efficacy. Prerequisite: MEDC 501 or equivalent and consent of department. (3).

541, 542. PROBLEMS IN MEDICINAL CHEMISTRY. Investigation of individual problems. Prerequisite: minimum GPA of 2.50 on all professional pharmacy courses attempted and consent of instructor. (1-4, 1-4).

543. SEMINAR ON CURRENT MEDICINAL CHEMISTRY TOPICS. A seminar consisting of presentations by faculty, graduate students, B.S. in Pharmaceutical Sciences/medicinal chemistry track students, and invited speakers. (1).

544. SEMINAR ON CURRENT MEDICINAL CHEMISTRY TOPICS. A seminar consisting of presentations by faculty, graduate students, B.S. in Pharmaceutical Sciences/medicinal chemistry track students, and invited speakers. (1).

MERCHANDISING *See the Department of Family and Consumer Sciences*

MICROBIOLOGY/IMMUNOLOGY *See the Department of Biology.*

MILITARY SCIENCE AND LEADERSHIP—MSL

Professor Lieutenant Colonel Joseph W. Blackburn, U.S. Army, chair • 102 Barnard Hall

Assistant Professors Major Stevens and Major Whiffen • Instructors Master Sergeant Hertz and Sergeant First Class Webb • Assistant Instructor Sergeant Willard

101. MILITARY SCIENCE AND LEADERSHIP I: FOUNDATIONS OF OFFICERSHIP. Introduction to the competencies that are central to a commissioned officer's responsibilities. The course establishes a framework for understanding officership, leadership, and Army values. Addresses physical fitness and time management. The course is designed to provide insight into the Army profession and the officer's role within the Army. Enrollment in this course does not incur a military obligation. (1 lecture, 1 lab). (2).

102. MILITARY SCIENCE AND LEADERSHIP I: BASIC LEADERSHIP. This course presents fundamental leadership concepts and doctrine, includes the instruction of basic skills that underlie effective problem solving, involves application of active listening and feedback skills, examines factors that influence leader and group effectiveness, and examines the officer experience. Enrollment in this course does not incur a military obligation. (1 lecture, 1 lab). (2).

103. MILITARY SCIENCE AND LEADERSHIP I: FOUNDATIONS OF OFFICERSHIP AND BASIC LEADERSHIP. Combination of MSL 101 and 102. Spring semester only. Enrollment in this course does not incur a military obligation. Not open to a student who has completed both MSL 101 and MSL 102. (2 lecture, 1 lab). (3).

105. BASIC TRAINING. Credit for successful completion of basic training in the U.S. Army. (Z grade). (4).

200. INTRODUCTION TO MILITARY SCIENCE AND LEADERSHIP. Intensive summer leadership training course designed to introduce the student to the basics of military service with a focus on understanding traditional military leadership values. (Will not count for credit if MSL 101, 102, 103, 201, or 202 is counted). Department approval is required. (Z grade). (4-6).

201. MILITARY SCIENCE AND LEADERSHIP II: INDIVIDUAL LEADERSHIP STUDIES. Basic leadership course that develops self-confidence and individual leadership skills, develops problem solving and critical thinking skills, and involves the application of communication, feedback and conflict resolution skills. Enrollment in this course does not incur a military obligation. (2 lecture, 1 lab). (3).

202. MILITARY SCIENCE AND LEADERSHIP II: LEADERSHIP AND TEAMWORK. Basic leadership course that focuses on leader self-development through individual and group processes and completes cadet preparation for the ROTC Advanced Course. Enrollment in this course does not incur a military obligation. (2 lecture, 1 lab). (3).

203. RANGER CHALLENGE. A leadership and team-building course with emphasis on basic rifle marksmanship, land navigation, patrolling, intensive physical training, rope bridges, hand grenades, and road marches. Prerequisite: consent of the instructor. (3 lecture, 1 lab). (3).

301. MILITARY SCIENCE AND LEADERSHIP III: LEADERSHIP AND PROBLEM SOLVING. Advanced leadership course that examines effective problem solving, includes analysis of the role officers played in the transition of the Army from Vietnam to the 21st century, a review of the features and execution of the Leadership Development Program, analysis of military missions and planning military operations at the tactical level, and execution of squad battle drills. Prerequisite: consent of instructor. (3 lecture, 1 lab). (4).

302. MILITARY SCIENCE AND LEADERSHIP III: LEADERSHIP AND ETHICS. Advanced leadership course that includes discussion of the leader responsibilities that foster an ethical command climate, development of cadet leadership competencies, preparation of cadets for the National Advanced Leadership Camp, and application of principles and techniques of effective written and oral communication. Prerequisite: MSL 301. (3 lecture, 1 lab). (4).

340. THE AMERICAN MILITARY EXPERIENCE. The development of the armed forces of the United States since 1775. Military institutions will be viewed in terms of their relationships to the wider context of U.S. history. (Same as HIS 320). (3).

399. RESEARCH SEMINAR IN MILITARY SCIENCE AND LEADERSHIP. Research and practical exercise in one of the following areas: military leadership, tactics, personnel management, information management, training management, logistics, and recent military developments. Prerequisites: MSL 302 or consent of the instructor. (1-3).

401. MILITARY SCIENCE AND LEADERSHIP IV: LEADERSHIP AND MANAGEMENT. Advanced leadership course that builds on National Advanced Leadership Camp experience to solve organizational and staff problems. Includes discussion of staff organization, functions, and processes, counseling responsibilities and methods, examination of the principles of subordinate motivation and organizational change, application of leadership and problem-solving principles to a complex case study/simulation. Prerequisites: MSL 302. (3 lecture, 1 lab). (4).

402. MILITARY SCIENCE AND LEADERSHIP IV: OFFICERSHIP. Capstone leadership course designed to explore topics relevant to second lieutenants entering the Army. Includes discussion of the legal aspects of decision-making and leadership, analysis of Army organization for operations from the tactical to strategic level, assessment of administrative and logistics management functions, discussion of initial reporting and the PCS process, performance of platoon leader actions, and an examination of leader responsibilities that foster an ethical command climate. Prerequisites: MSL 401. (3 lecture, 1 lab). (4).

MODERN LANGUAGES

Professor David S. Hargrove, acting chair • 115-C Bondurant Hall

Professors Arrington, Danahy, Dyer, Gaycken, and Gutierrez • Associate Professors Cole and Yang • Assistant Professors Buchanan, Klodt, Marting, Metcalf, O'Sullivan, and Quinney • Instructors Albertson, Bussade, Colomer, Contreras, Cotelo, Gaycken, Gray, Karahan, Kaufmann, Landa Vera, Morales, Ochiai, Raines, Sisson, Sullivan-Gonzalez, and Whitehead

PREREQUISITE FOR ALL 500-LEVEL MODERN LANGUAGE COURSES: Completion of 201-202 or the equivalent and completion of 9 hours at the 300 level, unless approved by the instructor and the department chair.

Chinese–CHIN

101. ELEMENTARY CHINESE I. Introduction to the Chinese language, including reading, writing, and conversational skills for basic communication; cultural and linguistic information about the Chinese-speaking world. Intended for students with fewer than two years of high school Chinese. (3).

102. ELEMENTARY CHINESE II. Continuing introduction to the Chinese language, including reading, writing, and conversational skills for basic communication; cultural and linguistic information about the Chinese-speaking world. Prerequisite: Chinese 101 or equivalent. (3).

111. INTENSIVE CHINESE I. Chinese 101 and 102 in one semester. To develop proficiency in Chinese with cultural information about the Chinese-speaking world. Prerequisite: consent of instructor. (5).

112. INTENSIVE CHINESE II. Continuation of CHIN 111 to develop proficiency in Chinese with cultural information about the Chinese-speaking world. Prerequisite: CHIN 111. (5).

198. ELEMENTARY CHINESE STUDY ABROAD. Emphasis on building Chinese proficiency and learning cultural information while studying abroad in a Chinese-speaking country. Departmental approval is required. (1-6).

199. SPECIAL TOPICS IN CHINESE. Topics vary. Available only during Study Abroad and with departmental approval. (May not be used to fulfill foreign language requirement.) Prerequisite: Chinese 102, 198, or equivalent. (3).

201. INTERMEDIATE CHINESE I. Development of proficiency in speaking, reading, writing, and understanding Chinese with cultural and linguistic information about the Chinese-speaking world. Prerequisite: Chinese 102 or equivalent. (3).

202. INTERMEDIATE CHINESE II. Emphasis on communication and culture. Prerequisite: Chinese 201 or equivalent. (3).

- 211. INTENSIVE CHINESE III.** Chinese 201 and 202 in one semester. To develop proficiency in Chinese with cultural information about the Chinese-speaking world. Prerequisite: Chinese 112. (5).
- 212. INTENSIVE CHINESE IV.** Continuation of CHIN 211 to develop proficiency in Chinese with cultural information about the Chinese-speaking world. Prerequisite: CHIN 211. (5).
- 298. INTERMEDIATE CHINESE STUDY ABROAD.** Emphasis on building Chinese proficiency and learning cultural information while studying abroad in a Chinese-speaking country. Departmental approval is required. Prerequisite: Chinese 102 or equivalent. (1-6).
- 299. SPECIAL TOPICS IN CHINESE.** Topics vary. Available only during Study Abroad and with departmental approval. (May not be used to fulfill foreign language requirement.) Prerequisite: Chinese 202, 298, or equivalent. (3).
- 301. CONVERSATION AND COMPOSITION I.** Development of speaking and writing skills, including creative expression, work with higher-level text types, and the study of selected grammatical structures. Prerequisite: Chinese 202 or equivalent. (3).
- 302. CONVERSATION AND COMPOSITION II.** Continued development of speaking and writing skills, including creative expression, work with higher-level text types, and the study of selected grammatical structures. Prerequisite: Chinese 301 or consent of instructor. (3).
- 311. INTENSIVE CHINESE V.** Continuation of CHIN 212 to develop proficiency in Chinese with cultural information about the Chinese-speaking world. Prerequisite: CHIN 212. (5).
- 312. INTENSIVE CHINESE VI.** Continuation of CHIN 311 to develop proficiency in Chinese with cultural information about the Chinese-speaking world. Prerequisite: CHIN 311. (5).
- 321. CHINESE CULTURE AND CIVILIZATION.** A study of the history of Chinese civilization and its impact on contemporary Chinese culture. Prerequisite: Chinese 301 or equivalent. (3).
- 331. INTRODUCTION TO CHINESE LITERATURE AND LITERARY ANALYSIS.** Study of literary movements, major writers, and intellectual and cultural ideas in Chinese literature and cultural history. Prerequisite: Chinese 302 or equivalent. (3).
- 361. CHINESE CINEMA.** Study of the evolution of Chinese cinema through selected films to explore the nature and development of contemporary Chinese aesthetics and culture. Prerequisite: Chinese 302 or equivalent. (3).
- 398. UPPER-LEVEL CHINESE ABROAD.** Emphasis on building Chinese proficiency and learning cultural information while studying abroad in a Chinese-speaking country. Departmental approval is required. Prerequisite: Chinese 202 or equivalent. (1-6).
- 399. SPECIAL TOPICS IN CHINESE.** Topics vary. Prerequisite: Chinese 302 or equivalent. (May be repeated once for credit, with permission of department). (3).
- 401. ADVANCED CHINESE I.** Advanced conversation, composition, reading, and grammar review. Prerequisite: Chinese 302 or equivalent. (3).
- 402. ADVANCED CHINESE II.** Advanced conversation, composition, reading, and grammar review. Prerequisite: Chinese 401 or equivalent. (3).

French–FR

- 101. ELEMENTARY FRENCH I.** Introduction to the French language, including reading, writing, and conversational skills for basic communication; cultural and linguistic information about the French-speaking world. Intended for students with fewer than two years of high school French. (3).
- 102. ELEMENTARY FRENCH II.** Continuing introduction to the French language, including reading, writing, and conversational skills for basic communication; cultural and linguistic information about the French-speaking world. Prerequisite: French 101 or equivalent. (3).
- 111. INTENSIVE ELEMENTARY FRENCH.** French 101 and 102 in one semester. To develop proficiency in French, with cultural information about the French-speaking world. Prerequisite: consent of instructor. (6).
- 121. ACCELERATED ELEMENTARY FRENCH.** Begins with a review of high school French and continues with the study of the language including reading, writing, and conversational skills for basic communication; cultural and linguistic information about the French-speaking world. Prerequisite: two years of high school French. (3).
- 198. ELEMENTARY FRENCH STUDY ABROAD.** Emphasis on building French proficiency and learning cultural information while studying abroad in a French-speaking country. Departmental approval is required. (1-6).

- 199. SPECIAL TOPICS IN FRENCH.** Topics vary. Available only during Study Abroad and with departmental approval. (May not be used to fulfill foreign language requirement.) Prerequisite: French 102, 111, 121, 198, or equivalent. (3).
- 201. INTERMEDIATE FRENCH I.** Development of proficiency in speaking, reading, writing, and understanding French with cultural and linguistic information about the French-speaking world. Prerequisites: French 102 or French 121 or equivalent. (3).
- 202. INTERMEDIATE FRENCH II.** Emphasis on communication and culture. Prerequisite: French 201 or equivalent. (3).
- 211. INTENSIVE INTERMEDIATE FRENCH.** French 201 and 202 in one semester. To develop proficiency in French, with cultural information about the French-speaking world. Prerequisite: French 111 or equivalent and consent of instructor. (6).
- 298. INTERMEDIATE FRENCH STUDY ABROAD.** Emphasis on building French proficiency and learning cultural information while studying abroad in a French-speaking country. Departmental approval is required. Prerequisite: French 102 or equivalent. (1-6).
- 299. SPECIAL TOPICS IN FRENCH.** Topics vary. Available only during Study Abroad and with departmental approval. (May not be used to fulfill foreign language requirement.) Prerequisite: French 202, 211, 298, or equivalent. (3).
- 303. CONVERSATION AND COMPOSITION I.** Development of speaking and writing skills including creative expression, work with higher-level text types, and the study of selected grammatical structures. Prerequisite: French 202 or equivalent. (3).
- 304. CONVERSATION AND COMPOSITION II.** Continued development of speaking and writing skills including creative expression, work with higher-level text types, and the study of selected grammatical structures. Prerequisite: French 303 or consent of the instructor. (3).
- 311. BUSINESS FRENCH.** Practical application of specialized vocabulary for letter writing, interviewing techniques, and other commercial applications of French. Prerequisite: French 304 or equivalent. (3).
- 321. FRENCH CULTURE AND CIVILIZATION.** A survey of the development of French cultural life through significant historical, literary, and artistic works. Prerequisite: French 303 or equivalent. (3).
- 322. CONTEMPORARY FRENCH CULTURE.** Prerequisite: French 303 or equivalent. (3).
- 331. INTRODUCTION TO LITERATURE AND LITERARY ANALYSIS IN FRENCH.** Reading strategies, methods of analysis, and techniques of exposition relying on selected short texts. Prerequisite: French 304 or equivalent. (3).
- 361. FRENCH AND FRANCOPHONE CINEMA.** Survey of the major developments in French or Francophone cinema. Content varies. Prerequisite: French 304 or equivalent. (3).
- 398. UPPER-LEVEL FRENCH ABROAD.** Emphasis on building French proficiency and learning cultural information while studying abroad in a French-speaking country. Departmental approval is required. Prerequisite: French 202 or equivalent. (1-6).
- 399. SPECIAL TOPICS IN FRENCH.** Topics vary. Prerequisite: French 304 or equivalent. (May be repeated once for credit with permission of department). (3).
- 571. ADVANCED FRENCH GRAMMAR AND COMPOSITION.** Review and analysis of the more sophisticated grammatical structures of the French language. Prerequisite: French 304 or equivalent. (3).
- 572. FRENCH PHONETICS AND PHONOLOGY.** Introduction to the production of French sounds, using linguistic analysis and articulatory practice to improve pronunciation skills. French 304 or equivalent. (3).
- 574. HISTORY OF THE FRENCH LANGUAGE.** Development of the phonological and grammatical systems of French from Latin to its modern dialects. Prerequisite: French 571 or equivalent. (3).
- 575. TOPICS IN APPLIED LINGUISTICS.** May be repeated once for credit. Prerequisite: French 571 or equivalent. (3).
- 577. SURVEY OF FRENCH LITERATURE I.** A survey of the major texts and the development of literary genres prior to 1789. Prerequisite: French 331 or equivalent. (3).
- 578. SURVEY OF FRENCH LITERATURE II.** A survey of major texts and the development of literary genres after 1789. Prerequisite: French 331 or equivalent. (3).
- 582. MEDIEVAL AND RENAISSANCE FRENCH LITERATURE.** Study of the works of representative authors from the 11th through the 16th centuries. (3).
- 583. SEVENTEENTH-CENTURY FRENCH LITERATURE.** Study of the works of representative authors of the 17th century in France. Prerequisite: French 577 or equivalent. (3).

- 584. EIGHTEENTH-CENTURY FRENCH LITERATURE.** Study of the works of representative authors of the 18th century in France. Prerequisite: French 578 or equivalent. (3).
- 585. NINETEENTH-CENTURY FRENCH LITERATURE.** Study of the works of representative authors of the 19th century in France. Prerequisite: French 578 or equivalent. (3).
- 586. TWENTIETH-CENTURY FRENCH LITERATURE.** Study of the works of representative authors of the 20th century in France. Prerequisite: French 578 or equivalent. (3).
- 593. TOPICS IN CULTURAL STUDIES.** Content varies. Prerequisites: French 321 and 322, or equivalent. (3).
- 598. ADVANCED FRENCH ABROAD.** (1-9).
- 599. SPECIAL TOPICS.** May be repeated once for credit. (3).

German—GERM

- 101. ELEMENTARY GERMAN I.** Introduction to the German language, including reading, writing, and conversational skills for basic communication; cultural and linguistic information about the German-speaking world. Intended for students with fewer than two years of high school German. (3).
- 102. ELEMENTARY GERMAN II.** Continuing introduction to the German language, including reading, writing, and conversational skills for basic communication; cultural and linguistic information about the German-speaking world. Prerequisite: German 101 or equivalent. (3).
- 111. INTENSIVE ELEMENTARY GERMAN.** German 101 and 102 in one semester. To develop proficiency in German, with cultural information about the German-speaking world. Prerequisite: consent of instructor. (6).
- 198. ELEMENTARY GERMAN STUDY ABROAD.** Emphasis on building German proficiency and learning cultural information while studying abroad in a German-speaking country. Departmental approval is required. (1-6).
- 199. SPECIAL TOPICS IN GERMAN.** Topics vary. Available only during Study Abroad and with departmental approval. (May not be used to fulfill foreign language requirement.) Prerequisite: German 102, 111, 198, or equivalent. (3).
- 201. INTERMEDIATE GERMAN I.** Development of proficiency in speaking, reading, writing, and understanding German with cultural and linguistic information about the German-speaking world. Prerequisite: German 102 or equivalent elementary German. (3).
- 202. INTERMEDIATE GERMAN II.** Emphasis on communication and culture. Prerequisite: German 201 or equivalent. (3).
- 211. INTENSIVE INTERMEDIATE GERMAN.** German 201 and 202 in one semester. To develop proficiency in German, with cultural information about the German-speaking world. Prerequisite: German 111 or equivalent and consent of instructor. (6).
- 298. INTERMEDIATE GERMAN STUDY ABROAD.** Emphasis on building German proficiency and learning cultural information while studying abroad in a German-speaking country. Departmental approval is required. Prerequisite: German 102 or equivalent. (1-6).
- 299. SPECIAL TOPICS IN GERMAN.** Topics vary. Available only during Study Abroad and with departmental approval. (May not be used to fulfill foreign language requirement.) Prerequisite: German 202, 211, 298, or equivalent. (3).
- 303. CONVERSATION AND COMPOSITION I.** Development of speaking and writing skills including creative expression, work with higher-level text types, and the study of selected grammatical structures. Prerequisite: German 202 or equivalent. (3).
- 304. CONVERSATION AND COMPOSITION II.** Continued development of speaking and writing skills including creative expression, work with higher-level text types, and the study of selected grammatical structures. Prerequisite: German 303 or consent of instructor. (3).
- 311. BUSINESS GERMAN.** Practical application of specialized vocabulary for letter writing, interviewing techniques, and other applications of German. Prerequisite: German 304 or equivalent. (3).
- 321. GERMAN CULTURE AND CIVILIZATION.** A survey of the development of German cultural life through significant literary, artistic, and scientific works. Prerequisite: German 303 or equivalent. (3).
- 331. INTRODUCTION TO LITERATURE AND LITERARY ANALYSIS IN GERMAN.** Introduction to scholarly resources and interpretive skills used in the analysis of texts and images. Prerequisite: German 304 or equivalent. (3).

- 361. GERMAN CINEMA.** Topic or genre-oriented course about German film. Prerequisite: German 304 or equivalent. (3).
- 398. UPPER-LEVEL GERMAN ABROAD.** Emphasis on building German proficiency and learning cultural information while studying abroad in a German-speaking country. Prerequisite: German 202 or equivalent. (1-6).
- 399. SPECIAL TOPICS IN GERMAN.** Topics vary. Prerequisite: GERM 304 or equivalent. May be repeated once for credit with permission of department. (3).
- 571. ADVANCED GRAMMAR AND COMPOSITION.** Review of the finer points of grammar, style, and diction. Developing linguistic skills to appreciate literary language, read scholarly prose, and analyze texts. Prerequisite: German 304 or equivalent. (3).
- 572. GERMAN PHONETICS AND PHONOLOGY.** Introduction to the production of German sounds, using linguistic analysis and articulatory practice to improve pronunciation skills. Prerequisite: German 304 or equivalent. (3).
- 574. HISTORY OF THE GERMAN LANGUAGE.** Introduction to German philology and linguistics. Examination of the origins and development of standard German and regional dialects from the Middle Ages to the present. Prerequisite: German 572 or equivalent. (3).
- 575. TOPICS IN APPLIED LINGUISTICS.** May be repeated once for credit. Prerequisite: German 571 or equivalent. (3).
- 577. SURVEY OF GERMAN LITERATURE AND CULTURE I.** Introduction to the history of German literature and culture from the Middle Ages to the Age of Goethe. Prerequisite: German 331 or equivalent. (3).
- 578. SURVEY OF GERMAN LITERATURE AND CULTURE II.** Introduction to the history of German literature and culture from the Age of Goethe to the present. Prerequisite: German 331 or equivalent. (3).
- 584. THE AGE OF GOETHE.** Discussion of influential and representative works from the Sturm und Drang period, German Classicism, and Romanticism in theoretical writings, poetry, drama, novella, art, architecture, and music. Prerequisite: German 577 or equivalent. (3).
- 585. NINETEENTH-CENTURY GERMAN LITERATURE.** Acquaintance with cultural and intellectual debates in Germany through in-depth discussion of 19th-century authors, literary works, art, and music. Prerequisite: German 578 or equivalent. (3).
- 586. TWENTIETH-CENTURY GERMAN LITERATURE AND CULTURE.** Acquaintance with contemporary cultural and intellectual debates in Germany through in-depth discussion of 20th-century authors, literary works, art, film, design, and music. Prerequisite: German 578 or equivalent. (3).
- 593. TOPICS IN CULTURAL STUDIES.** Analysis of social, cultural, and political phenomena, inquiry into philosophical and theoretical issues, and/or study of influential ideas in German literature and culture. Content varies. May be repeated once for credit. Prerequisite: German 321 or equivalent. (3).
- 598. ADVANCED GERMAN ABROAD.** (1-9).
- 599. SPECIAL TOPICS.** May be repeated once for credit. (3).

Italian-ITAL

- 101. ELEMENTARY ITALIAN I.** Introduction to the Italian language, including reading, writing, and conversational skills for basic communication; cultural and linguistic information about the Italian-speaking world. Intended for students with fewer than two years of high-school Italian. (3).
- 102. ELEMENTARY ITALIAN II.** Continuing introduction to the Italian language, including reading, writing, and conversational skills for basic communication; cultural and linguistic information about the Italian-speaking world. Prerequisite: Italian 101 or equivalent. (3).
- 198. ELEMENTARY ITALIAN STUDY ABROAD.** Emphasis on building Italian proficiency and learning cultural information while studying abroad in an Italian-speaking country. Departmental approval is required. (1-6).
- 199. SPECIAL TOPICS IN ITALIAN.** Topics vary. Available only during Study Abroad and with departmental approval. (May not be used to fulfill foreign language requirement.) Prerequisite: Italian 102, 198, or equivalent. (3).
- 201. INTERMEDIATE ITALIAN I.** Development of proficiency in speaking, reading, writing, and understanding Italian with cultural and linguistic information about the Italian-speaking world. Prerequisite: Italian 102 or equivalent. (3).

202. INTERMEDIATE ITALIAN II. Emphasis on communication and culture. Prerequisite: Italian 201 or equivalent. (3).

298. INTERMEDIATE ITALIAN STUDY ABROAD. Emphasis on building Italian proficiency and learning cultural information while studying abroad in an Italian-speaking country. Departmental approval is required. Prerequisite: Italian 102 or equivalent. (1-6).

299. SPECIAL TOPICS IN ITALIAN. Topics vary. Available only during Study Abroad and with departmental approval. (May not be used to fulfill foreign language requirement.) Prerequisite: Italian 202, 298, or equivalent. (3).

301. CONVERSATION AND COMPOSITION I. Development of speaking and writing skills, including creative expression, work with higher-level text types, and the study of selected grammatical structures. Prerequisite: Italian 202 or equivalent. (3).

302. CONVERSATION AND COMPOSITION II. Continued development of speaking and writing skills, including creative expression, work with higher-level text types, and the study of selected grammatical structures. Prerequisite: Italian 301 or consent of instructor. (3).

398. UPPER-LEVEL ITALIAN ABROAD. Emphasis on building Italian proficiency and learning cultural information while studying abroad in an Italian-speaking country. Departmental approval is required. Prerequisite: Italian 202 or equivalent. (1-6).

399. SPECIAL TOPICS IN ITALIAN. Topics vary. Prerequisite: Italian 302 or equivalent. (May be repeated once for credit, with permission of department). (3).

Japanese–JAPN

101. ELEMENTARY JAPANESE I. Introduction to the Japanese language, including reading, writing, and conversational skills for basic communication; cultural and linguistic information about the Japanese-speaking world. Intended for students with fewer than two years of high-school Japanese. Co-requisite: Japanese 103. (3).

102. ELEMENTARY JAPANESE II. Continuing introduction to the Japanese language, including reading, writing, and conversational skills for basic communication; cultural and linguistic information about the Japanese-speaking world. Co-requisite: Japanese 104. Prerequisites: Japanese 101 and 103, or equivalent. (3).

103. PRACTICAL REVIEW OF ELEMENTARY JAPANESE I. Sociocultural and linguistic information to accompany Japanese 101. Co-requisite: Japanese 101. (1).

104. PRACTICAL REVIEW OF ELEMENTARY JAPANESE II. Additional sociocultural and linguistic information to accompany Japanese 102. Co-requisite: Japanese 102. Prerequisites: Japanese 101 and 103. (1).

198. ELEMENTARY JAPANESE STUDY ABROAD. Emphasis on building Japanese proficiency and learning cultural information while studying abroad in a Japanese-speaking country. Departmental approval is required. (1-6).

199. SPECIAL TOPICS IN JAPANESE. Topics vary. Available only during Study Abroad and with departmental approval. (May not be used to fulfill foreign language requirement.) Prerequisite: Japanese 102 and 104, 198, or equivalent. (3).

201. INTERMEDIATE JAPANESE I. Development of proficiency in speaking, reading, writing, and understanding Japanese with cultural and linguistic information about the Japanese-speaking world. Co-requisite: Japanese 203. Prerequisites: Japanese 102 and 104, or equivalent. (3).

202. INTERMEDIATE JAPANESE II. Emphasis on communication and culture. Co-requisite: Japanese 204. Prerequisites: Japanese 201 and 203, or equivalent. (3).

203. PRACTICAL REVIEW OF INTERMEDIATE JAPANESE I. Sociocultural and linguistic information to accompany Japanese 201. Co-requisite: Japanese 201. Prerequisites: Japanese 102 and 104, or equivalent. (1).

204. PRACTICAL REVIEW OF INTERMEDIATE JAPANESE II. Additional sociocultural and linguistic information to accompany Japanese 202. Co-requisite: Japanese 202. Prerequisites: Japanese 201 and 203, or equivalent. (1).

298. INTERMEDIATE JAPANESE STUDY ABROAD. Emphasis on building Japanese proficiency and learning cultural information while studying abroad in a Japanese-speaking country. Departmental approval is required. Prerequisites: Japanese 102 and 104, or equivalent. (1-6).

299. SPECIAL TOPICS IN JAPANESE. Topics vary. Available only during Study Abroad and with departmental approval. (May not be used to fulfill foreign language requirement.) Prerequisite: Japanese 202 and 204, 298, or equivalent. (3).

301. CONVERSATION AND COMPOSITION I. Development of speaking and writing skills, including creative expression, work with higher-level text types, and the study of selected grammatical structures. Prerequisites: Japanese 202 and 204, or equivalent. (3).

302. CONVERSATION AND COMPOSITION II. Continued development of speaking and writing skills, including creative expression, work with higher-level text types, and the study of selected grammatical structures. Prerequisite: Japanese 301 or consent of instructor. (3).

398. UPPER-LEVEL JAPANESE ABROAD. Emphasis on building Japanese proficiency and learning cultural information while studying abroad in a Japanese-speaking country. Departmental approval is required. Prerequisites: Japanese 202 and 204, or equivalent. (1-6).

399. SPECIAL TOPICS IN JAPANESE. Topics vary. Prerequisite: Japanese 302, or equivalent. (May be repeated once for credit). (3).

401. ADVANCED JAPANESE I. Advanced conversation, composition, reading, and grammar review. Prerequisite: Japanese 302 or equivalent. (3).

402. ADVANCED JAPANESE II. Advanced conversation, composition, reading, and grammar review. Prerequisite: Japanese 401 or equivalent. (3).

Modern Languages, Literature, and Linguistics–MLLL

302. CHINA THROUGH LITERATURE AND FILM. Critical examination of modern Chinese culture through analysis of 20th-century Chinese literature (in English translation) and films with English subtitles. (3).

313. INTRODUCTION TO LINGUISTIC SCIENCE. The study of human language. (Same as ANTH 313, ENGL 313, and LING 313). (3).

314. PHONOLOGY. An introduction to the principles of articulatory and acoustic phonetics; also generative and nongenerative phonology. (Same as LING 314 and ENGL 314). (3).

315. MORPHOLOGY. An introduction to the intersection and overlap of morphology with both the study of distinctive sounds and sentence elements. (Same as LING 315 and ENGL 315). (3).

316. SYNTAX. Introduction to traditional approaches to sentential analysis and a comparative examination of syntactic models. (Same as LING 316 and ENGL 316). (3).

346. BRAZILIAN LITERARY WORKS AND CULTURAL DOCUMENTS IN TRANSLATION. Readings from Brazilian literature, and cultural and intellectual history in translation. (3).

348. GERMAN LITERARY WORKS AND CULTURAL DOCUMENTS IN TRANSLATION. Readings from German literature, cultural and intellectual history in English translation. (3).

352. HEMISPHERIC VOICES: WOMEN WRITERS OF THE AMERICAS. Study of the development of feminist thought in the Americas through translations of works by women writers from North, Central, and South America, and the Caribbean. (Same as Gender Studies 352). (3).

376. RENAISSANCE AND EARLY MODERN STUDIES. Interdisciplinary approach to this era in European history through a study of its literature, religion, economic conditions, artistic and scientific achievements, as well as its politics, geographical exploration, colonization, and slave trade. Required of all Renaissance and Early Modern Studies minors but open to all students. (Same as ENGL 376, HIS 376). (3).

399. SPECIAL TOPICS. May be repeated once for credit. (3).

430. DISCOURSE PRAGMATICS. Linguistic study of the context of an utterance, including an analysis of speech styles and discourse markers, as well as the anatomy of a conversation and idiomatic expressions. The language of focus will be English, although other languages also will be examined. (Same as LING 430 and ENGL 430). (3).

438. LANGUAGE AND GENDER. A comparative view of gender differences in language forms, using both American English research and sociocultural studies from other language groups. (Same as Gender Studies 438). (3).

599. SPECIAL TOPICS. May be repeated once for credit. (3).

Portuguese–PORT

101. ELEMENTARY PORTUGUESE I. Introduction to the Portuguese language, including reading, writing, and conversational skills for basic communication; cultural and linguistic information about the Portuguese-speaking world. Intended for students with fewer than two years of high-school Portuguese. (3).

102. ELEMENTARY PORTUGUESE II. Continuing introduction to the Portuguese language, including reading, writing, and conversational skills for basic communication; cultural and linguistic information about the Portuguese-speaking world. Prerequisite: Portuguese 101 or equivalent. (3).

198. ELEMENTARY PORTUGUESE STUDY ABROAD. Emphasis on building Portuguese proficiency and learning cultural information while studying abroad in a Portuguese-speaking country. Departmental approval is required. (1-6).

199. SPECIAL TOPICS IN PORTUGUESE. Topics vary. Available only during Study Abroad and with departmental approval. (May not be used to fulfill foreign language requirement.) Prerequisite: Portuguese 102, 198, or equivalent. (3).

201. INTERMEDIATE PORTUGUESE I. Development of proficiency in speaking, reading, writing, and understanding Portuguese with cultural and linguistic information about the Portuguese-speaking world. Prerequisite: Portuguese 102 or equivalent. (3).

202. INTERMEDIATE PORTUGUESE II. Emphasis on communication and culture. Prerequisite: Portuguese 201 or equivalent. (3).

298. INTERMEDIATE PORTUGUESE STUDY ABROAD. Emphasis on building Portuguese proficiency and learning cultural information while studying abroad in a Portuguese-speaking country. Departmental approval is required. Prerequisite: Portuguese 102 or equivalent. (1-6).

299. SPECIAL TOPICS IN PORTUGUESE. Topics vary. Available only during Study Abroad and with departmental approval. (May not be used to fulfill foreign language requirement.) Prerequisite: Portuguese 202, 298, or equivalent. (3).

301. CONVERSATION AND COMPOSITION I. Development of speaking and writing skills, including creative expression, work with higher-level text types, and the study of selected grammatical structures. Prerequisite: Portuguese 202 or equivalent. (3).

302. CONVERSATION AND COMPOSITION II. Continued development of speaking and writing skills, including creative expression, work with higher-level text types, and the study of selected grammatical structures. Prerequisite: Portuguese 301 or consent of instructor. (3).

321. BRAZILIAN CULTURE AND CIVILIZATION. Study of Luso-Brazilian cultural history and its impact on contemporary Brazilian culture. Prerequisite: Portuguese 301 or equivalent. (3).

331. INTRODUCTION TO BRAZILIAN LITERATURE AND LITERARY ANALYSIS. Study of literary movements, major writers, and intellectual and cultural ideas in Brazilian literature. Prerequisite: Portuguese 302 or equivalent. (3).

361. BRAZILIAN CINEMA. Study of the evolution of Brazilian cinema through selected films to explore the nature and development of contemporary Brazilian aesthetics and culture. Prerequisite: Portuguese 302 or equivalent. (3).

398. UPPER-LEVEL PORTUGUESE ABROAD. Emphasis on building Portuguese proficiency and learning cultural information while studying abroad in a Portuguese-speaking country. Departmental approval is required. Prerequisite: Portuguese 202 or equivalent. (1-6).

399. SPECIAL TOPICS IN PORTUGUESE. Topics vary. Prerequisite: Portuguese 302 or equivalent. (May be repeated once for credit with permission of department). (3)

Russian–RUSS

101. ELEMENTARY RUSSIAN I. Introduction to the Russian language, including reading, writing, and conversational skills for basic communication; cultural and linguistic information about the Russian-speaking world. Intended for students with fewer than two years of high-school Russian. (3).

102. ELEMENTARY RUSSIAN II. Continuing introduction to the Russian language, including reading, writing, and conversational skills for basic communication; cultural and linguistic information about the Russian-speaking world. Prerequisite: Russian 101 or equivalent. (3).

198. ELEMENTARY RUSSIAN STUDY ABROAD. Emphasis on building Russian proficiency and learning cultural information while studying abroad in a Russian-speaking country. Departmental approval is required. (1-6).

199. SPECIAL TOPICS IN RUSSIAN. Topics vary. Available only during Study Abroad and with departmental approval. (May not be used to fulfill foreign language requirement.) Prerequisite: Russian 102, 198, or equivalent. (3).

201. INTERMEDIATE RUSSIAN I. Development of proficiency in speaking, reading, writing, and understanding Russian with cultural and linguistic information about the Russian-speaking world. Prerequisite: Russian 102 or equivalent. (3).

- 202. INTERMEDIATE RUSSIAN II.** Emphasis on communication and culture. Prerequisite: Russian 201 or equivalent. (3).
- 298. INTERMEDIATE RUSSIAN STUDY ABROAD.** Emphasis on building Russian proficiency and learning cultural information while studying abroad in a Russian-speaking country. Departmental approval is required. Prerequisite: Russian 102 or equivalent. (1-6).
- 299. SPECIAL TOPICS IN RUSSIAN.** Topics vary. Available only during Study Abroad and with departmental approval. (May not be used to fulfill foreign language requirement.) Prerequisite: Russian 202, 298, or equivalent. (3).
- 301. CONVERSATION AND COMPOSITION I.** Development of speaking and writing skills, including creative expression, work with higher-level text types, and the study of selected grammatical structures. Prerequisite: Russian 202 or equivalent. (3).
- 302. CONVERSATION AND COMPOSITION II.** Continued development of speaking and writing skills, including creative expression, work with higher-level text types, and the study of selected grammatical structures. Prerequisite: Russian 301 or equivalent. (3).
- 321. RUSSIAN CULTURE AND CIVILIZATION.** Study of the history of Russian civilization and its impact on contemporary Russian culture. Prerequisite: Russian 301 or equivalent. (3).
- 331. INTRODUCTION TO RUSSIAN LITERATURE AND LITERARY ANALYSIS.** Study of literary movements, major writers, and intellectual and cultural ideas in Russian literature and cultural history. Prerequisite: Russian 302 or equivalent. (3).
- 361. RUSSIAN CINEMA.** Study of the evolution of Russian cinema through selected films to explore the nature and development of contemporary Russian aesthetics and culture. Prerequisite: Russian 302 or equivalent. (3).
- 398. UPPER-LEVEL RUSSIAN ABROAD.** Emphasis on building Russian proficiency and learning cultural information while studying abroad in a Russian-speaking country. Departmental approval is required. Prerequisite: Russian 202 or equivalent. (1-6).
- 399. SPECIAL TOPICS IN RUSSIAN.** Topics vary. Prerequisite: Russian 302 or equivalent. (May be repeated once for credit, with permission of department). (3).
- 401. ADVANCED RUSSIAN I.** Advanced conversation, composition, reading, and grammar review. Prerequisite: Russian 302 or equivalent. (3).
- 402. ADVANCED RUSSIAN II.** Advanced conversation, composition, reading, and grammar review. Prerequisite: Russian 401 or equivalent. (3).

Spanish–SPAN

- 101. ELEMENTARY SPANISH I.** Introduction to the Spanish language, including reading, writing, and conversational skills for basic communication; cultural and linguistic information about the Spanish-speaking world. Intended for students with fewer than two years of high school Spanish. (3).
- 102. ELEMENTARY SPANISH II.** Continuing introduction to the Spanish language, including reading, writing, and conversational skills for basic communication; cultural and linguistic information about the Spanish-speaking world. Prerequisite: Spanish 101 or equivalent. (3).
- 111. INTENSIVE ELEMENTARY SPANISH.** Spanish 101 and 102 in one semester. To develop proficiency in Spanish, with cultural information about the Spanish-speaking world. With consent of instructor. (6).
- 121. ACCELERATED ELEMENTARY SPANISH.** Begins with a review of high school Spanish and continues with the study of the language, including reading, writing, and conversational skills for basic communication; cultural and linguistic information about the Spanish-speaking world. Prerequisite: two years of high school Spanish. (3).
- 198. ELEMENTARY SPANISH STUDY ABROAD.** Emphasis on building Spanish proficiency and learning cultural information while studying abroad in a Spanish-speaking country. Departmental approval is required. (1-6).
- 199. SPECIAL TOPICS IN SPANISH.** Topics vary. Available only during Study Abroad and with departmental approval. (May not be used to fulfill foreign language requirement.) Prerequisite: Spanish 102, 111, 121, 198, or equivalent. (3).
- 201. INTERMEDIATE SPANISH I.** Development of proficiency in speaking, reading, writing, and understanding Spanish with cultural and linguistic information about the Spanish-speaking world. Prerequisite: Spanish 102 or Spanish 121, or equivalent. (3).
- 202. INTERMEDIATE SPANISH II.** Emphasis on communication and culture. Prerequisite: Spanish 201 or equivalent. (3).

- 211. INTENSIVE INTERMEDIATE SPANISH.** Spanish 201 and 202 in one semester. To develop continuing proficiency in Spanish, with cultural information about the Spanish-speaking world. Prerequisite: Spanish 111 or equivalent and consent of instructor. (6).
- 298. INTERMEDIATE SPANISH STUDY ABROAD.** Emphasis on building Spanish proficiency and learning cultural information while studying abroad in a Spanish-speaking country. Departmental approval is required. Prerequisite: Spanish 102 or equivalent. (1-6).
- 299. SPECIAL TOPICS IN SPANISH.** Topics vary. Available only during Study Abroad and with departmental approval. (May not be used to fulfill foreign language requirement.) Prerequisite: Spanish 202, 211, 298, or equivalent. (3).
- 303. CONVERSATION AND COMPOSITION I.** Development of speaking and writing skills, including creative expression, work with higher-level text types, and the study of selected grammatical structures. Prerequisite: Spanish 202 or equivalent. (3).
- 304. CONVERSATION AND COMPOSITION II.** Continued development of speaking and writing skills, including creative expression, work with higher-level text types, and the study of selected grammatical structures. Prerequisite: Spanish 303 or consent of instructor. (3).
- 311. BUSINESS SPANISH.** Practical application of specialized vocabulary for letter writing, interviewing techniques, and other applications of Spanish. Prerequisite: Spanish 304 or equivalent. (3).
- 321. SPANISH CULTURE AND CIVILIZATION.** A survey of the development of the cultural life of Spain through significant historical, literary, artistic, and scientific works. Prerequisite: Spanish 303 or equivalent. (3).
- 322. SPANISH AMERICAN CULTURE AND CIVILIZATION.** A survey of the development of the cultural life of Spanish America through significant historical, literary, artistic, and scientific works. Prerequisite: Spanish 303 or equivalent. (3).
- 331. INTRODUCTION TO LITERATURE AND LITERARY ANALYSIS.** An introduction of terminology and techniques of literary analysis through narrative, poetry, and drama by Spanish and Spanish-American writers. Prerequisite: Spanish 304 or equivalent. (3).
- 341. SPANISH IN THE UNITED STATES.** The language, culture, and oral and written traditions of large groups and small enclaves of Spanish speakers in the United States, discussing issues of language use, identity, and attitudes. Prerequisite: Spanish 304 or equivalent. (3).
- 361. CINEMA IN SPANISH.** An analysis of films from Spain and/or Spanish America within their social, political, and historical contexts. Prerequisite: Spanish 304 or equivalent. (3).
- 397. CONVERSATION FOR UPPER-LEVEL SPANISH.** Enhancement of receptive and productive skills through upper-level oral exercises and examination of authentic language, in order to converse in everyday contexts. May be repeated twice for credit. Prerequisite: SPAN 202 or 211. (1).
- 398. UPPER-LEVEL SPANISH ABROAD.** Emphasis on building Spanish proficiency and learning cultural information while studying abroad in a Spanish-speaking country. Departmental approval is required. Prerequisite: Spanish 202 or equivalent. (1-6).
- 399. SPECIAL TOPICS IN SPANISH.** Topics vary. Prerequisite: Spanish 304 or equivalent. May be repeated once for credit with permission of department. (3).
- 571. ADVANCED GRAMMAR AND COMPOSITION.** Review and analysis of the more sophisticated grammatical structures of the Spanish language. Prerequisite: Spanish 304 or equivalent. (3).
- 572. SPANISH PHONETICS AND PHONOLOGY.** Introduction to the production of Spanish sounds, using linguistic analysis and articulatory practice to improve pronunciation skills. Prerequisite: Spanish 304 or equivalent. (3).
- 573. SPANISH MORPHOLOGY AND SYNTAX.** Analysis of the Spanish morphemic system and its organization into syntactic structures. Prerequisite: Spanish 304 or equivalent. (3).
- 574. HISTORY OF THE SPANISH LANGUAGE.** Development of the phonological and grammatical systems of Spanish from Latin to its modern dialects. Prerequisite: Spanish 572 or equivalent. (3).
- 575. TOPICS IN APPLIED LINGUISTICS.** May be repeated once for credit. Prerequisite 571 or equivalent. (3).
- 577 SURVEY OF SPANISH LITERATURE I.** A study of the most representative writers of the Spanish Peninsula from the Epic through 1700. Prerequisite: Spanish 331. (3).
- 578. SURVEY OF SPANISH LITERATURE II.** A study of representative writers of the Spanish Peninsula from 1701 to the present day. Prerequisite: Spanish 331. (3).

579. SURVEY OF SPANISH AMERICAN LITERATURE I. A survey of the canonical texts and movements of Spanish American literature and culture from colonial times to modernismo. Prerequisite: Spanish 331. (3).

580. SURVEY OF SPANISH AMERICAN LITERATURE II. A survey of the canonical texts and movements of Spanish American literature and culture from modernismo through the end of the 20th century. Prerequisite: Spanish 331. (3).

582. CERVANTES. A study of Cervantes's majors works including *Don Quijote* and *Novelas ejemplares* in the light of modern theoretical approaches. Prerequisite: Spanish 577 or equivalent. (3).

583. GOLDEN AGE LITERATURE. Major Spanish writers of the 16th and 17th century. Prerequisite: Spanish 577 or equivalent. (3).

585. EIGHTEENTH AND NINETEENTH-CENTURY SPANISH LITERATURE. Study of the works of representative authors of the most important literary currents of 19th- and 20th-century Spain. Prerequisite: Spanish 577 or equivalent. (3).

586. MODERN SPANISH LITERATURE. Study of literary works from the Generation of '98 to the present in Spain. Prerequisite: Spanish 578 or equivalent. (3).

587. SPANISH AMERICAN SHORT STORY. Development of the short story as a literary genre in Spanish America, with emphasis on recent trends. Prerequisite: Spanish 579 or 580, or equivalent. (3).

588. SPANISH AMERICAN POETRY. Analysis of texts representative of major poetic movements in Spanish America. Prerequisite: Spanish 579 or 580, or equivalent. (3).

589. SPANISH AMERICAN NOVEL. Study of selected novels of major Spanish American writers. Prerequisite: Spanish 579 or 580, or equivalent. (3).

593. TOPICS IN CULTURAL STUDIES. May be repeated for credit. Prerequisite: Spanish 321, 322, or equivalent. (3).

598. ADVANCED SPANISH ABROAD. (1-9).

599. SPECIAL TOPICS. May be repeated once for credit. (3).

MUSIC—MUS

Professor Steven Brown, chair • 164 Scruggs Hall

Professors Gates, Irvin, Linton, Vernon, and Willson • Associate Professors J. Aubrey, Burkhead, Dale, Riggs, B. Robinson, Rodgers, A. Spurgeon, D. Spurgeon, Steel, and Trott • Assistant Professors Balach, Dejournett, Dor, Foulkes-Levy, Hominick, Latartara, Rike, Schaefer, Schuesselin, and Worthy • Adjunct Assistant Professor R. Aubrey • Instructors Gaston, Levy, Piecuch, J. Robinson, Rowlett, Wang, and Wilson

Theory, Composition, History

101. INTRODUCTION TO MUSIC LITERATURE. An overall historical perspective including style recognition and familiarity with major composers and compositions. (For music majors and minors). (3).

102. FUNDAMENTALS OF MUSIC THEORY. Fundamental concepts and principles of harmonic, melodic, and rhythmic structures, including their notation and interpretation. No previous instruction in music required. May not be used to satisfy requirements for a major or minor in music. (3).

103. INTRODUCTION TO MUSIC. The study of elementary music elements and basic terminology, with an emphasis on identification of the major music styles in the Western civilization. May not be used to satisfy the requirements for a major or minor in music. (3).

104. INTRODUCTION TO WORLD MUSIC CULTURES. A survey introducing the musical cultures of Africa, African America, Latin America, Native America, Southeast Asia, South Asia, and Southeastern Europe. (3).

105, 106. MUSICIANSHIP AND HARMONY I, II. Theory fundamentals; an introduction to musical skills through solfege (sight singing, ear training, rhythm, memory, dictation, improvisation); the study of diatonic harmony through part writing and analysis. Prerequisite for Music 106: Music 105. (3, 3).

- 200. TOPICS IN MUSIC ABROAD I.** Students do departmentally approved course work at a foreign university or music conservatory. May be repeated with permission of the chair of the Department of Music. (1-6).
- 205, 206. MUSICIANSHIP AND HARMONY III, IV.** An in-depth study of chromatic harmony through part writing and analysis; the study of late nineteenth- and early twentieth-century chromatic harmony; an introduction to twentieth-century compositional techniques; the further development of all musical skills based on chromatic and atonal music. Prerequisite for MUS 205: MUS 106; prerequisite for MUS 206: MUS 205. (3, 3).
- 230. INSTRUMENTAL METHODS FOR VOCAL/KEYBOARD MAJORS.** Functional techniques of wind, percussion, and stringed instruments, to include hands-on experience playing the instruments as well as the rudimentary pedagogy for each. (2).
- 301, 302. HISTORY OF MUSIC I, II.** Survey of music in Western culture from the Middle Ages to the present day. (3, 3).
- 303. VOCAL LITERATURE I.** A historical survey of the art song literature. (2).
- 304. VOCAL LITERATURE II.** A historical survey of opera and oratorio literature. (2).
- 305, 306. FORM AND ANALYSIS I, II.** A study of the structural properties of phrases, periods, and phrase groups applied to binary, ternary, rondo, and sonata forms in music of the 18th through 20th centuries; an introduction to imitative (fugal) and theme and variation procedures; a study of large forms, especially sonata, sonata-rondo, and the concerto. Prerequisite for MUS 305: MUS 206; prerequisite for MUS 306: MUS 305. (2, 2).
- 309, 310. COMPOSITION III.** The employment of contrapuntal techniques and forms; representative works. (2, 2).
- 312. KEYBOARD LITERATURE.** Chronological survey of keyboard literature. (3).
- 313. AMERICAN MUSICAL THEATRE.** The growth of the American musical and operetta in a historical context from the 1800s. (3).
- 321. THE DEVELOPMENT OF COUNTRY MUSIC.** Traces the development and evolution of country music from the folk tradition of the 19th century to the Nashville sound. Prerequisite: junior standing. (3).
- 330. SELECTED TOPICS IN MUSIC.** Selected topics in music history and literature, music theory, or music education. Topics may vary. May be repeated once for credit. (1-3).
- 347. INTRO TO MUSIC TECH.** Introduction of technology as it applies to the field of music, including music notation, MIDI, Internet resources, and digital versus analog signals. Prerequisite: MUS 106. (1).
- 400. TOPICS IN MUSIC ABROAD II.** Students do departmentally approved course work at a foreign university or music conservatory. May be repeated with permission of the chair of the Department of Music. (1-6).
- 403, 404. COMPOSITION IV.** Creative work involving the study of contemporary techniques of composers of the 20th century. (2, 2).
- 405. INSTRUMENTAL ARRANGING.** Scoring for various chamber ensembles (strings, winds, brass, percussion), culminating in a project for a large ensemble (orchestra or wind ensemble). Students may elect their stream of concentration (orchestra/band). (2).
- 497. SENIOR THESIS.** An in-depth study of a topic in music history or music theory under the supervision of a major professor, concluding with a formal oral presentation and a research paper. Prerequisites: senior standing and consent of major professor. (3).
- 501. MUSIC OF THE MEDIEVAL AND RENAISSANCE PERIOD.** (2).
- 502. MUSIC OF THE BAROQUE PERIOD.** (2).
- 503. MUSIC OF THE CLASSICAL PERIOD.** (2).
- 504. MUSIC OF THE ROMANTIC PERIOD.** (2).
- 505, 506, 507. ANALYSIS I, II, III.** A study of techniques appropriate to analysis of music of the Renaissance and Baroque periods (I), Classical and Romantic periods (II), and the 20th century (III). (2, 2, 2).
- 509, 510. ADVANCED COMPOSITION.** Composition for students with previous compositional experience. Prerequisite: consent of instructor. (2, 2).
- 511. BAND INSTRUMENTATION.** Arranging for the concert and marching band. (2).
- 512. SIXTEENTH CENTURY COUNTERPOINT.** A study of the compositional techniques of contrapuntal music of the 16th century. (2)
- 513. MUSIC SINCE 1900.** (2).

- 514. EIGHTEENTH CENTURY COUNTERPOINT.** A study of the compositional techniques of contrapuntal music of the 18th century. (2)
- 515. HISTORY OF OPERA.** A historical survey of the opera. (2).
- 517. AFRICAN-AMERICAN MUSICAL TRADITIONS.** A survey of styles arising from black American culture: the African background, spirituals, blues, and gospel music and their influence on American and world music. (3).
- 518. THE HISTORY OF JAZZ.** The nature, origins, and evolution of jazz will be studied, using recordings, films, and source readings. (3).
- 519. INSTRUMENTAL AND VOCAL ARRANGING.** Intensive study of arranging for various musical media, in styles chosen by students. Emphasis for each student may center upon instrumental music, vocal music, or any combination of the two. (2).
- 520. INTRODUCTION TO MUSIC RESEARCH.** Familiarity with the library materials and techniques necessary for advanced study in music. (2).
- 526. HISTORY OF MUSIC IN THE UNITED STATES.** Study of music in the United States from the early colonial period to the present with special emphasis in popular music developments. (2).
- 529. VOCAL PEDAGOGY.** Basic anatomy of the vocal mechanism and a basic understanding of pedagogical principles and applications in voice teaching. (2).
- 547. MUSIC TECHNOLOGY I.** Methods of synthesis, signal processing, recording, and computer applications involving MIDI. Prerequisite: MUS 305 or equivalent and consent of instructor. (2).
- 560. MUSIC THEORY PEDAGOGY.** A comparative survey of current systems and materials for teaching lower division college courses in music theory and ear training. (3).
- 561. SYMPHONIC LITERATURE.** A historical survey of music composed for the orchestra. (2).
- 563. CHAMBER MUSIC LITERATURE.** A historical survey of chamber music literature. (2).
- 565. INSTRUMENTAL SOLO LITERATURE.** Solo literature for various woodwind, brass, percussion, and string instruments. Emphasis on the standard repertoire and solos used with elementary and secondary school students. (2).

Music Education

- 161. STRING CLASS.** Methods of tone production, bowings, fingerings, positions, the care of the violin, viola, cello, and double bass. (1).
- 172. SECONDARY INSTRUMENTAL MUSIC METHODS: FLUTE.** Tone production, fingering, tuning, care of instrument. (1).
- 173. SECONDARY INSTRUMENTAL MUSIC METHODS: SINGLE REEDS.** Tone production, fingering, tuning, care of instrument. (1).
- 174. SECONDARY INSTRUMENTAL MUSIC METHODS: DOUBLE REEDS.** Tone production, fingering, tuning, care of instrument. Prerequisite: MUS 172 or MUS 173 or permission of instructor. (1).
- 187. SECONDARY INSTRUMENTAL MUSIC METHODS: HIGH BRASS.** Tone production, fingering, tuning, care of instrument. (1).
- 189. SECONDARY INSTRUMENTAL MUSIC METHODS: LOW BRASS.** Tone production, fingering, tuning, care of instrument. (1).
- 190. SECONDARY INSTRUMENTAL MUSIC METHODS: PERCUSSION.** Tone production, technical development, instrumental care for all the percussion instruments. (2).
- 198. VOCAL METHODS FOR INSTRUMENTAL MAJORS.** A pedagogical approach to methods of healthy vocal tone production and proper care and technical development of the singing voice. (1).
- 230. INSTRUMENTAL METHODS FOR VOCAL/KEYBOARD MAJORS.** Functional techniques of wind, percussion, and stringed instruments, to include hands-on experience playing the instruments as well as the rudimentary pedagogy for each. (2).
- 311. INTRODUCTION TO MUSIC EDUCATION.** Class discussions on pedagogical procedures and philosophy. Unit teaching, including guitar, improvisation, music fundamentals through composition. Selected topics. (3).
- 315. FUNDAMENTALS OF CONDUCTING.** Fundamentals of instrumental and choral conducting; baton technique, interpretation, practice with conducting class. (2).
- 316. INSTRUMENTAL CONDUCTING.** Rehearsal and stylistic techniques with repertory ensemble. Woodwind, brass, and percussion methods classes strongly recommended prior to enrollment. Prerequisite: 315. (2).

- 325. TECHNIQUES OF MARCHING BAND.** Current styles and trends of marching band. Concepts, drills, and charting. (2).
- 329. MUSIC FOR CHILDREN.** A music course designed for elementary education majors, to integrate music into the classroom; no previous instruction in music required. (3).
- 347. INTRODUCTION TO MUSIC TECHNOLOGY.** Introduction of technology as it applies to the field of music, including music notation, MIDI, Internet resources, and digital versus analog signals. Prerequisite: MUS 106. (1).
- 371. ELEMENTARY SCHOOL MUSIC.** Acquisition of skills required for teaching recorder, Curwin hand signals, Orff instruments and orchestration, and Dalcroze movement. (3).
- 376. TEACHING MUSIC IN THE ELEMENTARY SCHOOL-STRINGS.** Pedagogical procedures and techniques of starting beginner classes of string students in elementary schools. (1).
- 381. CHORAL CONDUCTING I.** Fundamentals of choral conducting with emphasis on treatment of text and other technical factors. Choral laboratory required. Prerequisite: MUS 213, MUS 315. (2).
- 382. CHORAL CONDUCTING II.** Advanced choral conducting with emphasis on expressive factors and selection of literature. Choral laboratory required. Prerequisite: MUS 214, 381. (2).
- 383. CHORAL METHODS AND ADMINISTRATION.** Choreographed ensemble methods and materials, direction of musical theatre, junior high school methods and materials. Choral laboratory required. (3).
- 384. CHORAL LITERATURE AND ARRANGING.** Senior high school choral methods, materials, and administration. Prerequisite: MUS 381. (3).
- 385. INSTRUMENTAL MUSIC PEDAGOGY.** The study of pedagogical theory and practice of applied instrument instruction.
- 414. PIANO PEDAGOGY.** The presentation of lesson plans and effective techniques of teaching piano; examination of publications, literature, and methods with discussion, observation, and actual teaching experiences. (2).
- 422. TEACHING AND ADMINISTRATION IN MUSIC EDUCATION.** Instructional strategies, materials, and administration for music education. Grades K-12. Prerequisite: Admission to Teacher Education and successful completion of piano proficiency. (3).
- 490. INTERNSHIP.** Experience in music-based field including, but not limited to performance, composition, theory, history, commercial music, opera, and/or musical theatre production. Prerequisites: Junior standing or greater, 2.5 departmental GPA, approval of the department chair. (Z grade). (1-3).
- 508. ADVANCED EAR TRAINING.** Advanced studies in rhythmic, melodic, and harmonic dictation and sight-singing. Although most exercises employ the major and minor modes, other modes are included. (2).
- 516. VOCAL PEDAGOGY.** Survey of techniques, practices, and materials of teaching voice; presentation of group and individual instruction. (2).
- 523. ADVANCED TECHNIQUES OF BAND DIRECTING.** Advanced techniques of organization and administration of instrumental music programs. (2).
- 524. ADVANCED TECHNIQUES OF CHORAL DIRECTING.** Methods of choral directing with emphasis on expression, musicianship, conducting techniques, and analysis of suitable choral literature. (2).
- 525. ADVANCED TECHNIQUES OF MARCHING BAND.** Current styles and trends of marching band. Concepts, drills, and charting. (2).
- 530. SPECIAL PROJECTS IN MUSIC EDUCATION.** Special topics in subject areas related to music education. (1-3).
- 535. DIRECTED READINGS IN MUSIC EDUCATION.** Readings and discussions of texts and articles in the foundation literature of music education, with focus on concepts of curriculum development. (3).
- 536. KODALY MUSIC EDUCATION IN AMERICA.** An introductory study of the philosophy and teaching methods of the Kodaly concept of music education as practiced in the United States. (3)

Ensembles

Enrollment in any music ensemble course requires the consent of the instructor.

123, 124; 223, 224; 323, 324; 423, 424, 527, 528. JAZZ ENSEMBLE. Standards and new repertory with opportunities for individual improvisation and ensemble jazz experience. (1 each).

- 131, 132; 231, 232; 331, 332; 431, 432; 531, 532. UNIVERSITY ORCHESTRA.** Rehearsal and performance of standard orchestral literature. (1-2 each).
- 133, 134; 233, 234; 333, 334; 433, 434; 533, 534. UNIVERSITY BAND.** Ole Miss Rebel Marching Band and/or UM Wind Ensemble during the fall semester. UM Wind Ensemble, Symphonic Band, or Concert Band during the spring semester. (2 each).
- 135, 136; 235, 236; 335, 336; 435, 436. UNIVERSITY CHORUS.** Rehearsal and performance of works for men's, women's, and mixed chorus. (2, 2).
- 139, 140; 239, 240; 339, 340; 439, 440; 539, 540. CONCERT SINGERS.** Rehearsal and performance of a variety of musical styles, with emphasis on classical forms. (2, 2).
- 141, 142; 241, 242; 341, 342; 441, 442; 541, 542. STEEL DRUM ENSEMBLE.** Rehearsal and performance of traditional Caribbean music as well as popular, jazz, and classical arrangements for steel drums. (1 each).
- 143, 144; 243, 244; 343, 344; 443, 444; 543, 544. EARLY MUSIC PERFORMANCE ENSEMBLE.** Rehearsal and performance of European vocal and instrumental music before 1750 and related repertoires. (1 each).
- 149, 150; 249, 250; 349, 350; 449, 450; 549, 550. MADRIGAL SINGERS.** Rehearsal and performance of literature for small choral ensembles. (1, 1).
- 151, 152; 251, 252; 351, 352; 451, 452. SHOW CHOIR.** Rehearsal and performance of popular music written primarily for small choral ensemble with choreography. (1).
- 155, 156; 255, 256; 355, 356; 455, 456. PERCUSSION ENSEMBLE.** Performance of music of many styles written for percussion instruments. (1 each).
- 153, 253, 353, 453. SUMMER BAND.** Rehearsal and performance of standard favorites of the band literature. (1 each).
- 157, 158; 257, 258; 357, 358; 457, 458. TROMBONE ENSEMBLE.** Performance of representative trombone literature throughout the history of music. (1 each).
- 159, 160; 259, 260; 359, 360; 459, 460. BRASS CHOIR.** Performance of representative brass literature throughout the history of music. (1 each).
- 169, 170; 269, 270; 369, 370; 469, 470. SAXOPHONE ENSEMBLE.** Performance of representative saxophone chamber literature. (1 each).
- 179, 180, 279, 280, 379, 380, 479, 480. FLUTE ENSEMBLE.** Performance of representative flute literature throughout the history of music. (1 each).
- 195, 295, 395, 495. OPERA THEATRE WORKSHOP I-IV.** Comprehensive training for the singer-actor in stage and body movement and basic technical training. Performance in scenes recital. (1-2).
- 196, 296, 396, 496. OPERA PRODUCTION WORKSHOP I-IV.** Performance and/or technical training through participation in a fully staged operatic production. (1-2).
- 237, 238; 337, 338; 437, 438; 537, 538. INSTRUMENTAL CHAMBER ENSEMBLE.** Chamber music study and performance in appropriate combinations for all instrumentalists. (1 each).
- 308. ACCOMPANYING.** Practical experience in accompanying. (May be repeated for credit). (1).
- 597. OPERA THEATRE WORKSHOP.** Comprehensive training for the singer-actor in stage and body movement and basic technical training. Performance in scenes recital. (1-2).
- 598. OPERA PRODUCTION WORKSHOP.** Performance and/or technical training through participation in a fully staged operatic production. (1-2).

MUSIC PERFORMANCE

Music Performance: Class and Studio Instruction. All music performance, except class instruction, shall be taught as one hour of private instruction per week. Students may register for only one performance course in an area per semester, that is, only one Piano course, or only one Voice course, etc. When necessary, music performance courses may be repeated once for credit. The jury shall serve as the final examination for every music performance course. Advancement to the next performance course requires jury recommendation. When offered in a summer term, credit is reduced by half. Music performance courses numbered 100 (VOIC 100, FLT 100, etc.) cannot be used to satisfy music performance requirements for a major or minor in music.

Class Instruction

- 100. STUDENT RECITAL.** (Z grade). (1).
- 113. FUNDAMENTAL KEYBOARD MUSICIANSHIP I.** Basic technical exercises and elementary repertoire. Beginning exercises in transposition, harmony, and improvisation. Placement audition required. (2).
- 114. FUNDAMENTAL KEYBOARD MUSICIANSHIP II.** Continuation of Music 113. Basic accompanying skills, score reading in ensemble. Prerequisite: 113 or audition. (2).
- 197. VOICE CLASS.** Fundamentals for beginning students not taking private lessons. (2).
- 207. SINGERS' DICTION I.** Phonetic sounds of the English and Italian languages to promote the ability to sing in these languages. (2).
- 208. SINGERS' DICTION II.** Phonetic sounds of the German and French languages to promote the ability to sing in these languages. (2).
- 213. INTERMEDIATE KEYBOARD MUSICIANSHIP I.** The development of intermediate technical fluency at the keyboard; including repertoire, harmonization of simple melodies, sightreading, transposition, and improvisation. Prerequisite: 114 or audition. (2).
- 214. INTERMEDIATE KEYBOARD MUSICIANSHIP II.** Continuation and development of the skills studied in 213. Prerequisite: 213 or audition. (2).
- 521. SURVEY OF DICTION.** A study of the International Phonetic Alphabet, coupled with a survey of Italian, French and German diction for the solo singer and choral music educator. (1).
- 522. ADVANCED SINGERS' DICTION.** Advanced interpretive coaching in the performance of English, Italian, French, and German art song and operatic literature, with emphasis on diction. Prerequisite: MUS 207 and 208 or the equivalent. (1).

Studio Instruction

Keyboard (piano–PIAN, harpsichord–HRPS, organ–ORGN)

- PIAN 100. PREPARATORY PIANO.** Fundamental technical exercises and literature. Entrance by audition. (2).
- PIAN 121. FRESHMAN PIANO I.** First semester private study. Entrance by audition. Prerequisite: consent of instructor. (2).
- PIAN 122. FRESHMAN PIANO II.** Second semester private study. Prerequisite: consent of instructor. (2).
- PIAN 221. SOPHOMORE PIANO I.** Third semester private study. Prerequisite: consent of instructor. (2).
- PIAN 222. SOPHOMORE PIANO II.** Fourth semester private study. Prerequisite: consent of instructor. (2).
- PIAN 241. SOPHOMORE PIANO PERFORMANCE I.** Third semester private study for piano performance majors. Prerequisite: consent of instructor. (4).
- PIAN 242. SOPHOMORE PIANO PERFORMANCE II.** Fourth semester private study for piano performance majors. Prerequisite: consent of instructor. (4).
- PIAN 321. JUNIOR PIANO I.** Fifth semester private study. Prerequisite: consent of instructor. (2).
- PIAN 322. JUNIOR PIANO II.** Sixth semester private study. Prerequisite: consent of instructor. (2).
- PIAN 341. JUNIOR PIANO PERFORMANCE I.** Fifth semester private study for piano performance majors. Prerequisite: consent of instructor. (4).
- PIAN 342. JUNIOR PIANO PERFORMANCE II.** Sixth semester private study for piano performance majors. Recital required. Prerequisite: consent of instructor. (4).
- PIAN 421. SENIOR PIANO I.** Seventh semester private study. Prerequisite: consent of instructor. (2).
- PIAN 422. SENIOR PIANO II.** Eighth semester private study. Prerequisite: consent of instructor. (2).
- PIAN 441. SENIOR PIANO PERFORMANCE I.** Seventh semester private study for piano performance majors. Prerequisite: consent of instructor. (4).
- PIAN 442. SENIOR PIANO PERFORMANCE II.** Eighth semester private study for piano performance majors. Recital required. Prerequisite: consent of instructor. (4).
- PIAN 521. ADVANCED PIANO I.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- PIAN 522. ADVANCED PIANO II.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).

PIAN 541. ADVANCED PIANO PERFORMANCE I. Private study for advanced seniors and graduate students in piano performance. Prerequisite: consent of instructor. (4).

PIAN 542. ADVANCED PIANO PERFORMANCE II. Private study for advanced seniors and graduate students in piano performance. Prerequisite: consent of instructor. (4).

Piano majors are strongly urged to elect study of organ and/or harpsichord as a secondary instrument.

HRPS 121. FRESHMAN HARPSICHORD. First semester private study. Entrance by audition. Prerequisite: consent of instructor. (2).

HRPS 221. SOPHOMORE HARPSICHORD. Second semester private study. Prerequisite: consent of instructor. (2).

HRPS 321. JUNIOR HARPSICHORD. Third semester private study. Prerequisite: consent of instructor. (2).

HRPS 421. SENIOR HARPSICHORD. Fourth semester private study. Prerequisite: consent of instructor. (2).

HRPS 521. ADVANCED HARPSICHORD I. Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).

HRPS 522. ADVANCED HARPSICHORD II. Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).

ORGN 100. PREPARATORY ORGAN. (For beginning students). Basic manual and pedal technique. Entrance by audition. (2).

ORGN 121. FRESHMAN ORGAN I. First semester private study. Entrance by audition. Prerequisite: consent of instructor. (2).

ORGN 122. FRESHMAN ORGAN II. Second semester private study. Prerequisite: consent of instructor. (2).

ORGN 221. SOPHOMORE ORGAN I. Third semester private study. Prerequisite: consent of instructor. (2).

ORGN 222. SOPHOMORE ORGAN II. Fourth semester private study. Prerequisite: consent of instructor. (2).

ORGN 321. JUNIOR ORGAN I. Fifth semester private study. Prerequisite: consent of instructor. (2).

ORGN 322. JUNIOR ORGAN II. Sixth semester private study. Prerequisite: consent of instructor. (2).

ORGN 421. SENIOR ORGAN I. Seventh semester private study. Prerequisite: consent of instructor. (2).

ORGN 422. SENIOR ORGAN II. Eighth semester private study. Prerequisite: consent of instructor. (2).

ORGN 521. ADVANCED ORGAN I. Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).

ORGN 522. ADVANCED ORGAN II. Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).

Strings (violin–VILN, viola–VILA, violoncello–VCEL, string bass–STBS)

VILN 100. PREPARATORY VIOLIN. Fundamental techniques, etudes, solos. Entrance by audition. (2).

VILN 121. FRESHMAN VIOLIN I. First semester private study. Entrance by audition. Prerequisite: consent of instructor. (2).

VILN 122. FRESHMAN VIOLIN II. Second semester private study. Prerequisite: consent of instructor. (2).

VILN 221. SOPHOMORE VIOLIN I. Third semester private study. Prerequisite: consent of instructor. (2).

VILN 222. SOPHOMORE VIOLIN II. Fourth semester private study. Prerequisite: consent of instructor. (2).

VILN 241. SOPHOMORE VIOLIN PERFORMANCE I. Third semester private study for violin performance majors. Prerequisite: consent of instructor. (4).

VILN 242. SOPHOMORE VIOLIN PERFORMANCE II. Fourth semester private study for violin performance majors. Prerequisite: consent of instructor. (4).

- VILN 321. JUNIOR VIOLIN I.** Fifth semester private study. Prerequisite: consent of instructor. (2).
- VILN 322. JUNIOR VIOLIN II.** Sixth semester private study. Prerequisite: consent of instructor. (2).
- VILN 341. JUNIOR VIOLIN PERFORMANCE I.** Fifth semester private study for violin performance majors. Prerequisite: consent of instructor. (4).
- VILN 342. JUNIOR VIOLIN PERFORMANCE II.** Sixth semester private study for violin performance majors. Recital required. Prerequisite: consent of instructor. (4).
- VILN 421. SENIOR VIOLIN I.** Seventh semester private study. Prerequisite: consent of instructor. (2).
- VILN 422. SENIOR VIOLIN II.** Eighth semester private study. Prerequisite: consent of instructor. (2).
- VILN 441. SENIOR VIOLIN PERFORMANCE I.** Seventh semester private study for violin performance majors. Prerequisite: consent of instructor. (4).
- VILN 442. SENIOR VIOLIN PERFORMANCE II.** Eighth semester private study for violin performance majors. Recital required. Prerequisite: consent of instructor. (4).
- VILN 521. ADVANCED VIOLIN I.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- VILN 522. ADVANCED VIOLIN II.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- VILN 541. ADVANCED VIOLIN PERFORMANCE I.** Private study for advanced seniors and graduate students in violin performance. Prerequisite: consent of instructor. (4).
- VILN 542. ADVANCED VIOLIN PERFORMANCE II.** Private study for advanced seniors and graduate students in violin performance. Prerequisite: consent of instructor. (4).
- VILA 100. PREPARATORY VIOLA.** Basic techniques, etudes, solos. Entrance by audition. (2).
- VILA 121. FRESHMAN VIOLA I.** First semester private study. Entrance by audition. Prerequisite: consent of instructor. (2).
- VILA 122. FRESHMAN VIOLA II.** Second semester private study. Prerequisite: consent of instructor. (2).
- VILA 221. SOPHOMORE VIOLA I.** Third semester private study. Prerequisite: consent of instructor. (2).
- VILA 222. SOPHOMORE VIOLA II.** Fourth semester private study. Prerequisite: consent of instructor. (2).
- VILA 241. SOPHOMORE VIOLA PERFORMANCE I.** Third semester private study for viola performance majors. Prerequisite: consent of instructor. (4).
- VILA 242. SOPHOMORE VIOLA PERFORMANCE II.** Fourth semester private study for viola performance majors. Prerequisite: consent of instructor. (4).
- VILA 321. JUNIOR VIOLA I.** Fifth semester private study. Prerequisite: consent of instructor. (2).
- VILA 322. JUNIOR VIOLA II.** Sixth semester private study. Prerequisite: consent of instructor. (2).
- VILA 341. JUNIOR VIOLA PERFORMANCE I.** Fifth semester private study for viola performance majors. Prerequisite: consent of instructor. (4).
- VILA 342. JUNIOR VIOLA PERFORMANCE II.** Sixth semester private study for viola performance majors. Recital required. Prerequisite: consent of instructor. (4).
- VILA 421. SENIOR VIOLA I.** Seventh semester private study. Prerequisite: consent of instructor. (2).
- VILA 422. SENIOR VIOLA II.** Eighth semester private study. Prerequisite: consent of instructor. (2).
- VILA 441. SENIOR VIOLA PERFORMANCE I.** Seventh semester private study for viola performance majors. Prerequisite: consent of instructor. (4).
- VILA 442. SENIOR VIOLA PERFORMANCE II.** Eighth semester private study for viola performance majors. Recital required. Prerequisite: consent of instructor. (4).
- VILA 521. ADVANCED VIOLA I.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- VILA 522. ADVANCED VIOLA II.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- VILA 541. ADVANCED VIOLA PERFORMANCE I.** Private study for advanced seniors and graduate students in viola performance. Prerequisite: consent of instructor. (4).
- VILA 542. ADVANCED VIOLA PERFORMANCE II.** Private study for advanced seniors and graduate students in viola performance. Prerequisite: consent of instructor. (4).
- VCEL 100. PREPARATORY VIOLONCELLO.** Basic techniques, etudes, solos. Entrance by audition. (2).

- VCEL 121. FRESHMAN VIOLONCELLO I.** First semester private study. Entrance by audition. Prerequisite: consent of instructor. (2).
- VCEL 122. FRESHMAN VIOLONCELLO II.** Second semester private study. Prerequisite: consent of instructor. (2).
- VCEL 221. SOPHOMORE VIOLONCELLO I.** Third semester private study. Prerequisite: consent of instructor. (2).
- VCEL 222. SOPHOMORE VIOLONCELLO II.** Fourth semester private study. Prerequisite: consent of instructor. (2).
- VCEL 241. SOPHOMORE VIOLONCELLO PERFORMANCE I.** Third semester private study for violoncello performance majors. Prerequisite: consent of instructor. (4).
- VCEL 242. SOPHOMORE VIOLONCELLO PERFORMANCE II.** Fourth semester private study for violoncello performance majors. Prerequisite: consent of instructor. (4).
- VCEL 321. JUNIOR VIOLONCELLO I.** Fifth semester private study. Prerequisite: consent of instructor. (2).
- VCEL 322. JUNIOR VIOLONCELLO II.** Sixth semester private study. Prerequisite: consent of instructor. (2).
- VCEL 341. JUNIOR VIOLONCELLO PERFORMANCE I.** Fifth semester private study for violoncello performance majors. Prerequisite: consent of instructor. (4).
- VCEL 342. JUNIOR VIOLONCELLO PERFORMANCE II.** Sixth semester private study for violoncello performance majors. Recital required. Prerequisite: consent of instructor. (4).
- VCEL 421. SENIOR VIOLONCELLO I.** Seventh semester private study. Prerequisite: consent of instructor. (2).
- VCEL 422. SENIOR VIOLONCELLO II.** Eighth semester private study. Prerequisite: consent of instructor. (2).
- VCEL 441. SENIOR VIOLONCELLO PERFORMANCE I.** Seventh semester private study for violoncello performance majors. Prerequisite: consent of instructor. (4).
- VCEL 442. SENIOR VIOLONCELLO PERFORMANCE II.** Eighth semester private study for violoncello performance majors. Recital required. Prerequisite: consent of instructor. (4).
- VCEL 521. ADVANCED VIOLONCELLO I.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- VCEL 522. ADVANCED VIOLONCELLO II.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- VCEL 541. ADVANCED VIOLONCELLO PERFORMANCE I.** Private study for advanced seniors and graduate students in violoncello performance. Prerequisite: consent of instructor. (4).
- VCEL 542. ADVANCED VIOLONCELLO PERFORMANCE II.** Private study for advanced seniors and graduate students in violoncello performance. Prerequisite: consent of instructor. (4).
- STBS 100. PREPARATORY STRING BASS.** Basic techniques, etudes, solos. Entrance by audition. (2).
- STBS 121. FRESHMAN STRING BASS I.** First semester private study. Entrance by audition. Prerequisite: consent of instructor. (2).
- STBS 122. FRESHMAN STRING BASS II.** Second semester private study. Prerequisite: consent of instructor. (2).
- STBS 221. SOPHOMORE STRING BASS I.** Third semester private study. Prerequisite: consent of instructor. (2).
- STBS 222. SOPHOMORE STRING BASS II.** Fourth semester private study. Prerequisite: consent of instructor. (2).
- STBS 241. SOPHOMORE STRING BASS PERFORMANCE I.** Third semester private study for string bass performance majors. Prerequisite: consent of instructor. (4).
- STBS 242. SOPHOMORE STRING BASS PERFORMANCE II.** Fourth semester private study for string bass performance majors. Prerequisite: consent of instructor. (4).
- STBS 321. JUNIOR STRING BASS I.** Fifth semester private study. Prerequisite: consent of instructor. (2).
- STBS 322. JUNIOR STRING BASS II.** Sixth semester private study. Prerequisite: consent of instructor. (2).
- STBS 341. JUNIOR STRING BASS PERFORMANCE I.** Fifth semester private study for string bass performance majors. Prerequisite: consent of instructor. (4).
- STBS 342. JUNIOR STRING BASS PERFORMANCE II.** Sixth semester private study for string bass performance majors. Recital required. Prerequisite: consent of instructor. (4).

STBS 421. SENIOR STRING BASS I. Seventh semester private study. Prerequisite: consent of instructor. (2)

STBS 422. SENIOR STRING BASS II. Eighth semester private study. Prerequisite: consent of instructor. (2).

STBS 441. SENIOR STRING BASS PERFORMANCE I. Seventh semester private study for string bass performance majors. Prerequisite: consent of instructor. (4).

STBS 442. SENIOR STRING BASS PERFORMANCE II. Eighth semester private study for string bass performance majors. Recital required. Prerequisite: consent of instructor. (4).

STBS 521. ADVANCED STRING BASS I. Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).

STBS 522. ADVANCED STRING BASS II. Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).

STBS 541. ADVANCED STRING BASS PERFORMANCE I. Private study for advanced seniors and graduate students in string bass performance. Prerequisite: consent of instructor. (4).

STBS 542. ADVANCED STRING BASS PERFORMANCE II. Private study for advanced seniors and graduate students in string bass performance. Prerequisite: consent of instructor. (4).

Woodwinds (clarinet–CLAR, flute–FLUT, bassoon–BSSN, oboe–OBOE, Saxophone–SAXN)

CLAR 100. PREPARATORY CLARINET. Basic technical studies, etudes, solos. Entrance by audition. (2).

CLAR 121. FRESHMAN CLARINET I. First semester private study. Entrance by audition. Prerequisite: consent of instructor. (2).

CLAR 122. FRESHMAN CLARINET II. Second semester private study. Prerequisite: consent of instructor. (2).

CLAR 221. SOPHOMORE CLARINET I. Third semester private study. Prerequisite: consent of instructor. (2).

CLAR 222. SOPHOMORE CLARINET II. Fourth semester private study. Prerequisite: consent of instructor. (2).

CLAR 241. SOPHOMORE CLARINET PERFORMANCE I. Third semester private study for clarinet performance majors. Prerequisite: consent of instructor. (4).

CLAR 242. SOPHOMORE CLARINET PERFORMANCE II. Fourth semester private study for clarinet performance majors. Prerequisite: consent of instructor. (4).

CLAR 321. JUNIOR CLARINET I. Fifth semester private study. Prerequisite: consent of instructor. (2).

CLAR 322. JUNIOR CLARINET II. Sixth semester private study. Prerequisite: consent of instructor. (2).

CLAR 341. JUNIOR CLARINET PERFORMANCE I. Fifth semester private study for clarinet performance majors. Prerequisite: consent of instructor. (4).

CLAR 342. JUNIOR CLARINET PERFORMANCE II. Sixth semester private study for clarinet performance majors. Recital required. Prerequisite: consent of instructor. (4).

CLAR 421. SENIOR CLARINET I. Seventh semester private study. Prerequisite: consent of instructor. (2).

CLAR 422. SENIOR CLARINET II. Eighth semester private study. Prerequisite: consent of instructor. (2).

CLAR 441. SENIOR CLARINET PERFORMANCE I. Seventh semester private study for clarinet performance majors. Prerequisite: consent of instructor. (4).

CLAR 442. SENIOR CLARINET PERFORMANCE II. Eighth semester private study for clarinet performance majors. Recital required. Prerequisite: consent of instructor. (4).

CLAR 521. ADVANCED CLARINET I. Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).

CLAR 522. ADVANCED CLARINET II. Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).

CLAR 541. ADVANCED CLARINET PERFORMANCE I. Private study for advanced seniors and graduate students in clarinet performance. Prerequisite: consent of instructor. (4).

CLAR 542. ADVANCED CLARINET PERFORMANCE II. Private study for advanced seniors and graduate students in clarinet performance. Prerequisite: consent of instructor. (4).

- FLUT 100. PREPARATORY FLUTE.** Basic technical studies, etudes, solos. Entrance by audition. (2).
- FLUT 121. FRESHMAN FLUTE I.** First semester private study. Entrance by audition. Prerequisite: consent of instructor. (2).
- FLUT 122. FRESHMAN FLUTE II.** Second semester private study. Prerequisite: consent of instructor. (2).
- FLUT 221. SOPHOMORE FLUTE I.** Third semester private study. Prerequisite: consent of instructor. (2).
- FLUT 222. SOPHOMORE FLUTE II.** Fourth semester private study. Prerequisite: consent of instructor. (2).
- FLUT 241. SOPHOMORE FLUTE PERFORMANCE I.** Third semester private study for flute performance majors. Prerequisite: consent of instructor. (4).
- FLUT 242. SOPHOMORE FLUTE PERFORMANCE II.** Fourth semester private study for flute performance majors. Prerequisite: consent of instructor. (4).
- FLUT 321. JUNIOR FLUTE I.** Fifth semester private study. Prerequisite: consent of instructor. (2).
- FLUT 322. JUNIOR FLUTE II.** Sixth semester private study. Prerequisite: consent of instructor. (2).
- FLUT 341. JUNIOR FLUTE PERFORMANCE I.** Fifth semester private study for flute performance majors. Prerequisite: consent of instructor. (4).
- FLUT 342. JUNIOR FLUTE PERFORMANCE II.** Sixth semester private study for flute performance majors. Recital required. Prerequisite: consent of instructor. (4).
- FLUT 421. SENIOR FLUTE I.** Seventh semester private study. Prerequisite: consent of instructor. (2).
- FLUT 422. SENIOR FLUTE II.** Eighth semester private study. Prerequisite: consent of instructor. (2).
- FLUT 441. SENIOR FLUTE PERFORMANCE I.** Seventh semester private study for flute performance majors. Prerequisite: consent of instructor. (4).
- FLUT 442. SENIOR FLUTE PERFORMANCE II.** Eighth semester private study for flute performance majors. Recital required. Prerequisite: consent of instructor. (4).
- FLUT 521. ADVANCED FLUTE I.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- FLUT 522. ADVANCED FLUTE II.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- FLUT 541. ADVANCED FLUTE PERFORMANCE I.** Private study for advanced seniors and graduate students in flute performance. Prerequisite: consent of instructor. (4).
- FLUT 542. ADVANCED FLUTE PERFORMANCE II.** Private study for advanced seniors and graduate students in flute performance. Prerequisite: consent of instructor. (4).
- BSSN 100. PREPARATORY BASSOON.** Basic technical studies, etudes, solos. Entrance by audition. (2).
- BSSN 121. FRESHMAN BASSOON I.** First semester private study. Entrance by audition.. Prerequisite: consent of instructor. (2).
- BSSN 122. FRESHMAN BASSOON II.** Second semester private study. Prerequisite: consent of instructor. (2).
- BSSN 221. SOPHOMORE BASSOON I.** Third semester private study. Prerequisite: consent of instructor. (2).
- BSSN 222. SOPHOMORE BASSOON II.** Fourth semester private study. Prerequisite: consent of instructor. (2).
- BSSN 241. SOPHOMORE BASSOON PERFORMANCE I.** Third semester private study for bassoon performance majors. Prerequisite: consent of instructor. (4).
- BSSN 242. SOPHOMORE BASSOON PERFORMANCE II.** Fourth semester private study for bassoon performance majors. Prerequisite: consent of instructor. (4).
- BSSN 321. JUNIOR BASSOON I.** Fifth semester private study. Prerequisite: consent of instructor. (2).
- BSSN 322. JUNIOR BASSOON II.** Sixth semester private study. Prerequisite: consent of instructor. (2).
- BSSN 341. JUNIOR BASSOON PERFORMANCE I.** Fifth semester private study for bassoon performance majors. Prerequisite: consent of instructor. (4).
- BSSN 342. JUNIOR BASSOON PERFORMANCE II.** Sixth semester private study for bassoon performance majors. Recital required. Prerequisite: consent of instructor. (4).
- BSSN 421. SENIOR BASSOON I.** Seventh semester private study. Prerequisite: consent of instructor. (2).

- BSSN 422. SENIOR BASSOON II.** Eighth semester private study. Prerequisite: consent of instructor. (2).
- BSSN 441. SENIOR BASSOON PERFORMANCE I.** Seventh semester private study for bassoon performance majors. Prerequisite: consent of instructor. (4).
- BSSN 442. SENIOR BASSOON PERFORMANCE II.** Eighth semester private study for bassoon performance majors. Recital required. Prerequisite: consent of instructor. (4).
- BSSN 521. ADVANCED BASSOON I.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- BSSN 522. ADVANCED BASSOON II.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- BSSN 541. ADVANCED BASSOON PERFORMANCE I.** Private study for advanced seniors and graduate students in bassoon performance. Prerequisite: consent of instructor. (4).
- BSSN 542. ADVANCED BASSOON PERFORMANCE II.** Private study for advanced seniors and graduate students in bassoon performance. Prerequisite: consent of instructor. (4).
- OBOE 100. PREPARATORY OBOE.** Basic technical exercises, etudes, solos. Entrance by audition. (2).
- OBOE 121. FRESHMAN OBOE I.** First semester private study. Entrance by audition. Prerequisite: consent of instructor. (2).
- OBOE 122. FRESHMAN OBOE II.** Second semester private study. Prerequisite: consent of instructor. (2).
- OBOE 221. SOPHOMORE OBOE I.** Third semester private study. Prerequisite: consent of instructor. (2).
- OBOE 222. SOPHOMORE OBOE II.** Fourth semester private study. Prerequisite: consent of instructor. (2).
- OBOE 241. SOPHOMORE OBOE PERFORMANCE I.** Third semester private study for oboe performance majors. Prerequisite: consent of instructor. (4).
- OBOE 242. SOPHOMORE OBOE PERFORMANCE II.** Fourth semester private study for oboe performance majors. Prerequisite: consent of instructor. (4).
- OBOE 321. JUNIOR OBOE I.** Fifth semester private study. Prerequisite: consent of instructor. (2).
- OBOE 322. JUNIOR OBOE II.** Sixth semester private study. Prerequisite: consent of instructor. (2).
- OBOE 341. JUNIOR OBOE PERFORMANCE I.** Fifth semester private study for oboe performance majors. Prerequisite: consent of instructor. (4).
- OBOE 342. JUNIOR OBOE PERFORMANCE II.** Sixth semester private study for oboe performance majors. Recital required. Prerequisite: consent of instructor. (4).
- OBOE 421. SENIOR OBOE I.** Seventh semester private study. Prerequisite: consent of instructor. (2).
- OBOE 422. SENIOR OBOE II.** Eighth semester private study. Prerequisite: consent of instructor. (2).
- OBOE 441. SENIOR OBOE PERFORMANCE I.** Seventh semester private study for oboe performance majors. Prerequisite: consent of instructor. (4).
- OBOE 442. SENIOR OBOE PERFORMANCE II.** Eighth semester private study for oboe performance majors. Recital required. Prerequisite: consent of instructor. (4).
- OBOE 521. ADVANCED OBOE I.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- OBOE 522. ADVANCED OBOE II.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- OBOE 541. ADVANCED OBOE PERFORMANCE I.** Private study for advanced seniors and graduate students in oboe performance. Prerequisite: consent of instructor. (4).
- OBOE 542. ADVANCED OBOE II.** Private study for advanced seniors and graduate students in oboe performance. Prerequisite: consent of instructor. (4).
- SAXN 100. PREPARATORY SAXOPHONE.** Basic technical exercises, etudes, solos. Entrance by audition. (2).
- SAXN 121. FRESHMAN SAXOPHONE I.** First semester private study. Entrance by audition. Prerequisite: consent of instructor. (2).
- SAXN 122. FRESHMAN SAXOPHONE II.** Second semester private study. Prerequisite: consent of instructor. (2).
- SAXN 221. SOPHOMORE SAXOPHONE I.** Third semester private study. Prerequisite: consent of instructor. (2).

SAXN 222. SOPHOMORE SAXOPHONE II. Fourth semester private study. Prerequisite: consent of instructor. (2).

SAXN 241. SOPHOMORE SAXOPHONE PERFORMANCE I. Third semester private study for saxophone performance majors. Prerequisite: consent of instructor. (4).

SAXN 242. SOPHOMORE SAXOPHONE PERFORMANCE II. Fourth semester private study for saxophone performance majors. Prerequisite: consent of instructor. (4).

SAXN 321. JUNIOR SAXOPHONE I. Fifth semester private study. Prerequisite: consent of instructor. (2).

SAXN 322. JUNIOR SAXOPHONE II. Sixth semester private study. Prerequisite: consent of instructor. (2).

SAXN 341. JUNIOR SAXOPHONE PERFORMANCE I. Fifth semester private study for saxophone performance majors. Prerequisite: consent of instructor. (4).

SAXN 342. JUNIOR SAXOPHONE PERFORMANCE II. Sixth semester private study for saxophone performance majors. Recital required. Prerequisite: consent of instructor. (4).

SAXN 421. SENIOR SAXOPHONE I. Seventh semester private study. Prerequisite: consent of instructor. (2).

SAXN 422. SENIOR SAXOPHONE II. Eighth semester private study. Prerequisite: consent of instructor. (2).

SAXN 441. SENIOR SAXOPHONE PERFORMANCE I. Seventh semester private study for saxophone performance majors. Prerequisite: consent of instructor. (4).

SAXN 442. SENIOR SAXOPHONE PERFORMANCE II. Eighth semester private study for saxophone performance majors. Recital required. Prerequisite: consent of instructor. (4).

SAXN 521. ADVANCED SAXOPHONE I. Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).

SAXN 522. ADVANCED SAXOPHONE II. Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).

SAXN 541. ADVANCED SAXOPHONE PERFORMANCE I. Private study for advanced seniors and graduate students in saxophone performance. Prerequisite: consent of instructor. (4).

SAXN 542. ADVANCED SAXOPHONE PERFORMANCE II. Private study for advanced seniors and graduate students in saxophone performance. Prerequisite: consent of instructor. (4).

Brass (baritone–BRTN, French horn–FRHN, trumpet–TRPT, trombone–TRBN, tuba–TUBA) and Percussion–PERC

BRTN 100. PREPARATORY BARITONE. Basic technical studies, etudes, solos. Entrance by audition. (2).

BRTN 121. FRESHMAN BARITONE I. First semester private study. Entrance by audition. Prerequisite: consent of instructor. (2).

BRTN 122. FRESHMAN BARITONE II. Second semester private study. Prerequisite: consent of instructor. (2).

BRTN 221. SOPHOMORE BARITONE I. Third semester private study. Prerequisite: consent of instructor. (2).

BRTN 222. SOPHOMORE BARITONE II. Fourth semester private study. Prerequisite: consent of instructor. (2).

BRTN 241. SOPHOMORE BARITONE PERFORMANCE I. Third semester private study for baritone performance majors. Prerequisite: consent of instructor. (4).

BRTN 242. SOPHOMORE BARITONE PERFORMANCE II. Fourth semester private study for baritone performance majors. Prerequisite: consent of instructor. (4).

BRTN 321. JUNIOR BARITONE I. Fifth semester private study. Prerequisite: consent of instructor. (2).

BRTN 322. JUNIOR BARITONE II. Sixth semester private study. Prerequisite: consent of instructor. (2).

BRTN 341. JUNIOR BARITONE PERFORMANCE I. Fifth semester private study for baritone performance majors. Prerequisite: consent of instructor. (4).

BRTN 342. JUNIOR BARITONE PERFORMANCE II. Sixth semester private study for baritone performance majors. Recital required. Prerequisite: consent of instructor. (4).

BRTN 421. SENIOR BARITONE I. Seventh semester private study. Prerequisite: consent of instructor. (2).

- BRTN 422. SENIOR BARITONE II.** Eighth semester private study. Prerequisite: consent of instructor. (2).
- BRTN 441. SENIOR BARITONE PERFORMANCE I.** Seventh semester private study for baritone performance majors. Prerequisite: consent of instructor. (4).
- BRTN 442. SENIOR BARITONE PERFORMANCE II.** Eighth semester private study for baritone performance majors. Recital required. Prerequisite: consent of instructor. (4).
- BRTN 521. ADVANCED BARITONE I.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- BRTN 522. ADVANCED BARITONE II.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- BRTN 541. ADVANCED BARITONE PERFORMANCE I.** Private study for advanced seniors and graduate students in baritone performance. Prerequisite: consent of instructor. (4).
- BRTN 542. ADVANCED BARITONE PERFORMANCE II.** Private study for advanced seniors and graduate students in baritone performance. Prerequisite: consent of instructor. (4).
- FRHN 100. PREPARATORY FRENCH HORN.** Basic technical studies, etudes, solos. Entrance by audition. (2).
- FRHN 121. FRESHMAN FRENCH HORN I.** First semester private study. Entrance by audition. Prerequisite: consent of instructor. (2).
- FRHN 122. FRESHMAN FRENCH HORN II.** Second semester private study. Prerequisite: consent of instructor. (2).
- FRHN 221. SOPHOMORE FRENCH HORN I.** Third semester private study. Prerequisite: consent of instructor. (2).
- FRHN 222. SOPHOMORE FRENCH HORN II.** Fourth semester private study. Prerequisite: consent of instructor. (2).
- FRHN 241. SOPHOMORE FRENCH HORN PERFORMANCE I.** Third semester private study for French horn performance majors. Prerequisite: consent of instructor. (4).
- FRHN 242. SOPHOMORE FRENCH HORN PERFORMANCE II.** Fourth semester study for French horn performance majors. Prerequisite: consent of instructor. (4).
- FRHN 321. JUNIOR FRENCH HORN I.** Fifth semester private study. Prerequisite: consent of instructor. (2).
- FRHN 322. JUNIOR FRENCH HORN II.** Sixth semester private study. Prerequisite: consent of instructor. (2).
- FRHN 341. JUNIOR FRENCH HORN PERFORMANCE I.** Fifth semester private study for French horn performance majors. Prerequisite: consent of instructor. (4).
- FRHN 342. JUNIOR FRENCH HORN PERFORMANCE II.** Sixth semester private study for French horn performance majors. Recital required. Prerequisite: consent of instructor. (4).
- FRHN 421. SENIOR FRENCH HORN I.** Seventh semester private study. Prerequisite: consent of instructor. (2).
- FRHN 422. SENIOR FRENCH HORN II.** Eighth semester private study. Prerequisite: consent of instructor. (2).
- FRHN 441. SENIOR FRENCH HORN PERFORMANCE I.** Seventh semester study for French horn performance majors. Prerequisite: consent of instructor. (4).
- FRHN 442. SENIOR FRENCH HORN PERFORMANCE II.** Eighth semester private study for French horn performance majors. Recital required. Prerequisite: consent of instructor. (4).
- FRHN 521. ADVANCED FRENCH HORN I.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- FRHN 522. ADVANCED FRENCH HORN II.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- FRHN 541. ADVANCED FRENCH HORN PERFORMANCE I.** Private study for advanced seniors and graduate students in French horn performance. Prerequisite: consent of instructor. (4).
- FRHN 542. ADVANCED FRENCH HORN PERFORMANCE II.** Private study for advanced seniors and graduate students in French horn performance. Prerequisite: consent of instructor. (4).
- TRPT 100. PREPARATORY TRUMPET.** Basic technical studies, etudes, solos. Entrance by audition. (2).
- TRPT 121. FRESHMAN TRUMPET I.** First semester private study. Entrance by audition. Prerequisite: consent of instructor. (2).

- TRPT 122. FRESHMAN TRUMPET II.** Second semester private study. Prerequisite: consent of instructor. (2).
- TRPT 221. SOPHOMORE TRUMPET I.** Third semester private study. Prerequisite: consent of instructor. (2).
- TRPT 222. SOPHOMORE TRUMPET II.** Fourth semester private study. Prerequisite: consent of instructor. (2).
- TRPT 241. SOPHOMORE TRUMPET PERFORMANCE I.** Third semester private study for trumpet performance majors. Prerequisite: consent of instructor. (4).
- TRPT 242. SOPHOMORE TRUMPET PERFORMANCE II.** Fourth semester private study for trumpet performance majors. Prerequisite: consent of instructor. (4).
- TRPT 321. JUNIOR TRUMPET I.** Fifth semester private study. Prerequisite: consent of instructor. (2).
- TRPT 322. JUNIOR TRUMPET II.** Sixth semester private study. Prerequisite: consent of instructor. (2).
- TRPT 341. JUNIOR TRUMPET PERFORMANCE I.** Fifth semester private study for trumpet performance majors. Prerequisite: consent of instructor. (4).
- TRPT 342. JUNIOR TRUMPET PERFORMANCE II.** Sixth semester private study for trumpet performance majors. Recital required. Prerequisite: consent of instructor. (4).
- TRPT 421. SENIOR TRUMPET I.** Seventh semester private study. Prerequisite: consent of instructor. (2).
- TRPT 422. SENIOR TRUMPET II.** Eighth semester private study. Prerequisite: consent of instructor. (2).
- TRPT 441. SENIOR TRUMPET PERFORMANCE I.** Seventh semester study for trumpet performance majors. Prerequisite: consent of instructor. (4).
- TRPT 442. SENIOR TRUMPET PERFORMANCE II.** Eighth semester private study for trumpet performance majors. Recital required. Prerequisite: consent of instructor. (4).
- TRPT 521. ADVANCED TRUMPET I.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- TRPT 522. ADVANCED TRUMPET II.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- TRPT 541. ADVANCED TRUMPET PERFORMANCE I.** Private study for advanced seniors and graduate students in trumpet performance. Prerequisite: consent of instructor. (4).
- TRPT 542. ADVANCED TRUMPET PERFORMANCE II.** Private study for advanced seniors and graduate students in trumpet performance. Prerequisite: consent of instructor. (4).
- TRBN 100. PREPARATORY TROMBONE.** Basic technical studies, etudes, solos. Entrance by audition. (2).
- TRBN 121. FRESHMAN TROMBONE I.** First semester private study. Entrance by audition. Prerequisite: consent of instructor. (2).
- TRBN 122. FRESHMAN TROMBONE II.** Second semester private study. Prerequisite: consent of instructor. (2).
- TRBN 221. SOPHOMORE TROMBONE I.** Third semester private study. Prerequisite: consent of instructor. (2).
- TRBN 222. SOPHOMORE TROMBONE II.** Fourth semester private study. Prerequisite: consent of instructor. (2).
- TRBN 241. SOPHOMORE TROMBONE PERFORMANCE I.** Third semester private study for trombone performance majors. Prerequisite: consent of instructor. (4).
- TRBN 242. SOPHOMORE TROMBONE PERFORMANCE II.** Fourth semester private study for trombone performance majors. Prerequisite: consent of instructor. (4).
- TRBN 321. JUNIOR TROMBONE I.** Fifth semester private study. Prerequisite: consent of instructor. (2).
- TRBN 322. JUNIOR TROMBONE II.** Sixth semester private study. Prerequisite: consent of instructor. (2).
- TRBN 341. JUNIOR TROMBONE PERFORMANCE I.** Fifth semester private study for trombone performance majors. Prerequisite: consent of instructor. (4).
- TRBN 342. JUNIOR TROMBONE PERFORMANCE II.** Sixth semester private study for trombone performance majors. Recital required. Prerequisite: consent of instructor. (4).
- TRBN 421. SENIOR TROMBONE I.** Seventh semester private study. Prerequisite: consent of instructor. (2).

- TRBN 422. SENIOR TROMBONE II.** Eighth semester private study. Prerequisite: consent of instructor. (2).
- TRBN 441. SENIOR TROMBONE PERFORMANCE I.** Seventh semester private study for trombone performance majors. Prerequisite: consent of instructor. (4).
- TRBN 442. SENIOR TROMBONE PERFORMANCE II.** Eighth semester private study for trombone performance majors. Recital required. Prerequisite: consent of instructor. (4).
- TRBN 521. ADVANCED TROMBONE I.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- TRBN 522. ADVANCED TROMBONE II.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- TRBN 541. ADVANCED TROMBONE PERFORMANCE I.** Private study for advanced seniors and graduate students in trombone performance. Prerequisite: consent of instructor. (4).
- TRBN 542. ADVANCED TROMBONE PERFORMANCE II.** Private study for advanced seniors and graduate students in trombone performance. Prerequisite: consent of instructor. (4).
- TUBA 100. PREPARATORY TUBA.** Basic technical studies, etudes, solos. Entrance by audition. (2).
- TUBA 121. FRESHMAN TUBA I.** First semester private study. Entrance by audition. Prerequisite: consent of instructor. (2).
- TUBA 122. FRESHMAN TUBA II.** Second semester private study. Prerequisite: consent of instructor. (2).
- TUBA 221. SOPHOMORE TUBA I.** Third semester private study. Prerequisite: consent of instructor. (2).
- TUBA 222. SOPHOMORE TUBA II.** Fourth semester private study. Prerequisite: consent of instructor. (2).
- TUBA 241. SOPHOMORE TUBA PERFORMANCE I.** Third semester private study for tuba performance majors. Prerequisite: consent of instructor. (4).
- TUBA 242. SOPHOMORE TUBA PERFORMANCE II.** Fourth semester private study for tuba performance majors. Prerequisite: consent of instructor. (4).
- TUBA 321. JUNIOR TUBA I.** Fifth semester private study. Prerequisite: consent of instructor. (2).
- TUBA 322. JUNIOR TUBA II.** Sixth semester private study. Prerequisite: consent of instructor. (2).
- TUBA 341. JUNIOR TUBA PERFORMANCE I.** Fifth semester study for tuba majors performance. Prerequisite: consent of instructor. (4).
- TUBA 342. JUNIOR TUBA PERFORMANCE II.** Sixth semester study for tuba performance majors. Recital required. Prerequisite: consent of instructor. (4).
- TUBA 421. SENIOR TUBA I.** Seventh semester private study. Prerequisite: consent of instructor. (2).
- TUBA 422. SENIOR TUBA II.** Eighth semester private study. Prerequisite: consent of instructor. (2).
- TUBA 441. SENIOR TUBA PERFORMANCE I.** Seventh semester private study for tuba performance majors. Prerequisite: consent of instructor. (4).
- TUBA 442. SENIOR TUBA PERFORMANCE II.** Eighth semester private study for tuba performance majors. Recital required. Prerequisite: consent of instructor. (4).
- TUBA 521. ADVANCED TUBA I.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- TUBA 522. ADVANCED TUBA II.** Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).
- TUBA 541. ADVANCED TUBA PERFORMANCE I.** Private study for advanced seniors and graduate students in tuba performance. Prerequisite: consent of instructor. (4).
- TUBA 542. ADVANCED TUBA PERFORMANCE II.** Private study for advanced seniors and graduate students in tuba performance. Prerequisite: consent of instructor. (4).
- PERC 100. PREPARATORY PERCUSSION INSTRUMENTS.** Basic technical studies, etudes, solos. Entrance by audition. (2).
- PERC 121. FRESHMAN PERCUSSION I.** First semester private study. Entrance by audition. Prerequisite: consent of instructor. (2).
- PERC 122. FRESHMAN PERCUSSION II.** Second semester private study. Prerequisite: consent of instructor. (2).
- PERC 221. SOPHOMORE PERCUSSION I.** Third semester private study. Prerequisite: consent of instructor. (2).
- PERC 222. SOPHOMORE PERCUSSION II.** Fourth semester private study. Prerequisite: consent of instructor. (2).

PERC 241. SOPHOMORE PERCUSSION PERFORMANCE I. Third semester private study for percussion performance majors. Prerequisite: consent of instructor. (4).

PERC 242. SOPHOMORE PERCUSSION PERFORMANCE II. Fourth semester private study for percussion performance majors. Prerequisite: consent of instructor. (4).

PERC 321. JUNIOR PERCUSSION I. Fifth semester private study. Prerequisite: consent of instructor. (2).

PERC 322. JUNIOR PERCUSSION II. Sixth semester private instruction. Prerequisite: consent of instructor. (2).

PERC 341. JUNIOR PERCUSSION PERFORMANCE I. Fifth semester private study for percussion performance majors. Prerequisite: consent of instructor. (4).

PERC 342. JUNIOR PERCUSSION PERFORMANCE II. Sixth semester private study for percussion performance majors. Recital required. Prerequisite: consent of instructor. (4).

PERC 421. SENIOR PERCUSSION I. Seventh semester private study. Prerequisite: consent of instructor. (2).

PERC 422. SENIOR PERCUSSION II. Eighth semester private study. Prerequisite: consent of instructor. (2).

PERC 441. SENIOR PERCUSSION PERFORMANCE I. Seventh semester private study for percussion performance majors. Prerequisite: consent of instructor. (4).

PERC 442. SENIOR PERCUSSION PERFORMANCE II. Eighth semester private study for percussion performance majors. Recital required. Prerequisite: consent of instructor. (4).

PERC 521. ADVANCED PERCUSSION I. Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).

PERC 522. ADVANCED PERCUSSION II. Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (3).

PERC 541. ADVANCED PERCUSSION PERFORMANCE I. Private study for advanced seniors and graduate students in percussion performance. Prerequisite: consent of instructor. (2).

PERC 542. ADVANCED PERCUSSION PERFORMANCE II. Private study for advanced seniors and graduate students in percussion performance. Prerequisite: consent of instructor. (4).

Voice–VOIC

100. PREPARATORY VOICE. Basic vocal techniques, exercises, and literature. Entrance by audition. (2).

121. FRESHMAN VOICE I. First semester private study. Entrance by audition. Prerequisite: consent of instructor. (2).

122. FRESHMAN VOICE II. Second semester private study. Prerequisite: consent of instructor. (2).

221. SOPHOMORE VOICE I. Third semester private study. Prerequisite: consent of instructor. (2).

222. SOPHOMORE VOICE II. Fourth semester private study. Prerequisite: consent of instructor. (2).

241. SOPHOMORE VOICE PERFORMANCE I. Third semester private study for voice performance majors. Prerequisite: consent of instructor. (4).

242. SOPHOMORE VOICE PERFORMANCE II. Fourth semester private study for voice performance majors. Prerequisite: consent of instructor. (4).

321. JUNIOR VOICE I. Fifth semester private study. Prerequisite: consent of instructor. (2).

322. JUNIOR VOICE II. Sixth semester private study. Prerequisite: consent of instructor. (2).

341. JUNIOR VOICE PERFORMANCE I. Fifth semester private study for voice performance majors. Prerequisite: consent of instructor. (4).

342. JUNIOR VOICE PERFORMANCE II. Sixth semester private study for voice performance majors. Recital required. Prerequisite: consent of instructor. (4).

421. SENIOR VOICE I. Seventh semester private study. Prerequisite: consent of instructor. (2).

422. SENIOR VOICE II. Eighth semester private study. Prerequisite: consent of instructor. (2).

441. SENIOR VOICE PERFORMANCE I. Seventh semester private study for voice performance majors. Prerequisite: consent of instructor. (4).

442. SENIOR VOICE PERFORMANCE II. Eighth semester private study for voice performance majors. Recital required. Prerequisite: consent of instructor. (4).

521. ADVANCED VOICE I. Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).

522. ADVANCED VOICE II. Private study for advanced seniors and graduate students. Prerequisite: consent of instructor. (2).

541. ADVANCED VOICE PERFORMANCE I. Private study for advanced seniors and graduate students in voice performance. Prerequisite: consent of instructor. (4).

542. ADVANCED VOICE PERFORMANCE II. Private study for advanced seniors and graduate students in voice performance. Prerequisite: consent of instructor. (4).

NAVAL SCIENCE—NSC

Professor Timothy A. Howington, captain, U.S. Navy, chair and commanding officer

Associate Professor Timothy L. Ferree, commander, U.S. Navy, departmental executive officer • Barnard Hall, Second Floor

Associate Professor Alex G. Stobbe, captain, U.S. Marine Corps

105. BASIC TRAINING. Credit for successful completion of basic training in the U.S. Navy or the U.S. Marine Corps. (Z grade). (4).

111. INTRODUCTION TO NAVAL SCIENCE. Organization, history, plans and policies, customs, traditions and military structure of the Department of the Navy. (2).

112. SEAPOWER AND MARITIME AFFAIRS. General concept of seapower, including commercial and ocean resource aspects; history of the Navy and role of various warfare components; comparative study of U.S. and other navies. (2).

115, 116. LEADERSHIP LABORATORY I, II. Topics in human resource management and naval organization selected for midshipmen fourth class. Corequisite: NSC 111 and 112. (1, 1).

211. NAVAL LEADERSHIP AND MANAGEMENT I. Analysis of personal and professional problems confronting the naval officer in the management of personnel, equipment, and material. (Navy option). (2).

212. NAVIGATION I-PILOTING AND OCEAN NAVIGATION. Basic shipboard navigation; visual and radar navigation, piloting, celestial navigation, newer forms of electronic navigations. Corequisite: NSC 213. (3).

213. NAVIGATION LABORATORY. Mathematical analysis in support of NSC 212. Corequisite: NSC 212. (1).

215, 216. LEADERSHIP LABORATORY III, IV. Topics in human resource management and naval organization selected for midshipmen third class. Corequisite: NSC 211 and 212. (1, 1).

310. EVOLUTION OF WARFARE. Development of basic knowledge of the art and concepts of warfare; exploration of the evolution of warfare from the beginnings of recorded history to the present. (Marine Corps option). (3).

311. NAVIGATION II-SEAMANSHIP AND SHIP OPERATIONS. Overview of maritime law, in-depth study of rules of the road; vector analysis of ship movements; aspects of seamanship and tactical maneuvers. Prerequisite: NSC 212. (3).

312. NAVAL SHIPS SYSTEMS. Ship compartmentation, propulsion systems, auxiliary power systems, interior communications and control; elements of ship safety design and stability characteristics. (3).

315, 316. LEADERSHIP LABORATORY V, VI. Topics in human resource management and military organization selected for midshipmen second class. (Marine Corps option). (1, 1).

317, 318. LEADERSHIP LABORATORY. Topics in human resource management and shipboard organization selected for midshipmen second class. (Navy option). Corequisite: NSC 311 and 312. (1, 1).

320. MARINE CORPS COMPANY-GRADE OFFICER. Preparation for OCS and life as a Marine Corps company-grade officer. Emphasis on basic professional military principles of leadership and small unit tactical skills. (Marine Corps option). Prerequisite: consent of instructor. (3).

410. AMPHIBIOUS WARFARE. Concept of amphibious warfare; doctrinal origins and evolution as an element of 20th century naval policy. (Marine Corps option). (3).

411. NAVAL WEAPONS SYSTEMS. Introduction to theory and principles of operation of weapons systems; theory of target acquisition and tracking, launcher operations, and trajectory principles. (3).

412. NAVAL LEADERSHIP AND MANAGEMENT II. Duties and responsibilities of the junior naval officer; emphasis on division and watch officer duties, administration, law, and communication. Prerequisite: NSC 211. (2).

415, 416. LEADERSHIP LABORATORY VII, VIII. Topics in human resource management and military organization selected for midshipmen first class. (Marine Corps option). (1, 1).

417, 418. LEADERSHIP LABORATORY IX, X. Topics in human resource management and naval organization selected for midshipmen first class. (Navy option). Corequisite: NSC 411 and 412. (1, 1).

NURSING *See the College of Liberal Arts section on Health Professions.*

PHARMACEUTICS—PHAR

Professor Marvin C. Wilson, interim chair • 104A Faser Hall

Professors Chambliss and M. Elsohly • Associate Professors B. Avery and Wyandt • Assistant Professors Repka and Stodghill

NOTE: A grade of at least C is required on all prerequisite courses.

330. PHARMACEUTICAL CALCULATIONS. This course introduces the prescription, prescription notation and abbreviations, basic pharmaceutical calculations, statistics and the mathematics of chemical kinetics and pharmacokinetics. (3).

331. BASIC PHARMACEUTICS I. This course is designed to teach those basic principles of physics and chemistry that are necessary to understand pharmaceutical dosage forms and their design. (4).

332. BASIC PHARMACEUTICS II. This course provides an understanding of various dosage forms and drug delivery systems and how medicinal and pharmaceutical substances are incorporated into them. Their dispensing and extemporaneous compounding of many of them also are presented. Prerequisites: PHAR 330 and PHAR 331. (4).

434. BIOPHARMACEUTICS AND PHARMACOKINETICS. Physicochemical and biological factors affecting drug bioavailability; time course of drugs, and metabolites in the body; and individualizing dosing regimens. Prerequisites: PHAR 332 and PHCL 443. (3).

436. PRODUCT DEVELOPMENT. The course is designed to provide an understanding of the development of pharmaceutical dosage forms. Prerequisites: PHAR 332 or consent of instructor. (3).

535. ANALYTICAL PHARMACEUTICS. The course is designed to teach the basic analytical pharmaceutical techniques necessary to analyze drugs and dosage forms. Prerequisites: PHAR 332 or consent of instructor. (4).

541, 542. PROBLEMS IN PHARMACEUTICS. Investigation of individual problems of current interest in pharmaceuticals. Prerequisite: minimum GPA of 2.50 on all professional pharmacy courses attempted and consent of instructor. (1-3, 1-3).

543, 544. SEMINAR IN CURRENT PHARMACEUTICAL TOPICS. (1, 1).

547. VETERINARY PHARMACEUTICALS/BIOLOGICALS AND THEIR USE IN ANIMALS. Physiological action, preparation, and dosage of remedial and preventive agents used in the treatment of domestic animals. Prerequisite: PHCL 443 or consent of instructor. (Not open to graduate students for credit). (3).

555. RADIOPHARMACEUTICALS. Introduction to radioactivity and the application of radioisotopes to pharmacy. Prerequisite: fourth-year standing or consent of instructor. (2).

558. PHARMACEUTICAL MANUFACTURING. Operation of a pharmaceutical manufacturing plant, including production, quality control, materials handling, packaging, and basic unit operations. Prerequisite: consent of instructor. (3-4).

PHARMACOGNOSY—PHCG

Professor Daneel Ferreira, chair • 443 Faser Hall

Professors Clark, Hufford, Pasco, and Zjawiony • Associate Professors Hamann, Khan, Nagle, Ross, and Slattery • Assistant Professor Zhou

NOTE: A grade of at least C is required on all prerequisite courses.

421. PATHOGENESIS AND ETIOLOGY OF INFECTIOUS DISEASES. This course covers all aspects of infectious diseases, including etiology, epidemiology, and characteristics of disease-causing pathogens, host-pathogen interactions, symptoms and prognosis of specified infectious diseases. Prerequisite: MEDC 317. (3).

422. NATURAL PRODUCT DERIVED PHARMACEUTICALS. This course covers all aspects of natural products used as pharmaceuticals, including both plant derived and microbial derived (antibiotics). Prerequisite: PHCG 421. (4).

427. DRUG DISCOVERY I. This course focuses on the techniques included in the characterization of drug substance from natural sources (plant, animal, and microorganisms). (3).

428. DRUG DISCOVERY II. This course focuses on laboratory techniques in drug discovery research. In particular, laboratory rotations through plant, marine, and microbe techniques will be emphasized. Prerequisite: PHCG 427. (3).

429. BOTANICALS AND TRADITIONAL MEDICINE. A survey of the use of plants that affect human health. Emphasis is on understanding the scientific and cultural basis of plants that have a major impact on maintaining health, preventing disease, and treating illness. Prerequisites: B.S. in pharmaceutical sciences and enrollment in Biology 161, 162 or equivalent, or permission of instructor. (2).

522. CULTIVATION AND PROCESSING OF MEDICINAL PLANTS. Cultivation, drying, and milling of plants yielding medicinal substances. (2).

541, 542. PROBLEMS IN PHARMACOGNOSY. Individual investigation of problems of current interest in pharmacognosy. Prerequisites: minimum GPA of 2.5 on all professional pharmacy courses attempted and consent of instructor. (1-4, 1-4).

543, 544. SEMINAR ON TOPICS OF INTEREST IN NATURAL PRODUCTS CHEMISTRY. (1, 1).

545, 546. INDIVIDUAL STUDY IN PHARMACOGNOSY RESEARCH. Individual readings, discussions, and presentations of research literature in natural products chemistry. (1-6), (1-6).

PHARMACOLOGY—PHCL

Professor Robert C. Speth, chair • 303 Faser Hall

Professors Matthews, Verlangieri, Walker, Waters, and M. Wilson • Associate Professors Haasch, Matsumoto, Sabol, and Sufka • Assistant Professors Dasmahapatra, Willet, and S. Wilson

NOTE: A grade of at least C is required on all prerequisite courses.

202. ENVIRONMENTAL HEALTH PERSPECTIVES. A survey course emphasizing environmental health issues, such as overpopulation, resource management, environmental degradation, and pollution. The course is designed for nonpharmacy majors. Prerequisite: BISC 102, 104, or their equivalents. (3).

341. HUMAN PHYSIOLOGY AND PATHOPHYSIOLOGY I. Function of normal human organs contrasted with changes seen in disease. Prerequisite: prepharmacy curriculum. (5).

342. HUMAN PHYSIOLOGY AND PATHOPHYSIOLOGY I. Function of normal human organs contrasted with changes seen in disease. Prerequisite: PHCL 341. (4).

343. BIOCHEMICAL FOUNDATIONS OF THERAPEUTICS. A detailed introduction to the chemistry of life processes, structure-activity relationships for biological molecules, metabolism and its regulation. (3).

345. NUTRITIONAL PHARMACOLOGY. Nutritional issues of concern to pharmacists, including the popular use of nutritional supplements for physiological enhancement and disease prevention, drug-nutrient interactions, therapeutic implications for nutritional pharmacology, and product availability. (3).

347. INTRODUCTION TO ENVIRONMENTAL TOXICOLOGY. Introduction to chemical nature and reactions of toxic substances; their origins and uses; and the aspects of exposure, transformation, and elimination. The course is designed for biology, chemistry, and pharmacy majors. Prerequisite: BISC 160, BISC 162, CHEM 221, CHEM 222, or their equivalents. (2).

381. INTRODUCTION TO TOXICOLOGY. Biological and chemical factors which influence toxicity. Review of various classes of compounds of industrial, agricultural, therapeutic, and economic importance. Emphasis on the forensic implications of poisoning by these agents. Prerequisite: CHEM 222, 226; and consent of instructor. (3).

443. BASIC AND CLINICAL PHARMACOLOGY I. Basic principles of pharmacodynamics; pharmacology of drugs acting on the autonomic nervous system; other drug classes acting on autonomic-innervated organs. Prerequisites: PHCL 341, 342. (4).

444. BASIC AND CLINICAL PHARMACOLOGY II. Continuation of 443; central nervous system drugs; hematopoietic, immunosuppressant, antineoplastic, and antiallergic drugs; basics of environmental and clinical toxicology. Prerequisite: PHCL 443. (4).

503. LABORATORY METHODS IN PHARMACOLOGY AND TOXICOLOGY I. Fundamental laboratory exercises designated to provide the student with hands-on experience with techniques basic to the disciplines of pharmacology and toxicology. Prerequisites: 4th year standing in B.S. in pharmaceutical science. (2).

504. LABORATORY METHODS IN PHARMACOLOGY AND TOXICOLOGY II. Fundamental laboratory exercises designed to provide the student with hands-on experience with techniques basic to the disciplines of pharmacology and toxicology. Prerequisites: PHCL 503. (2).

541. PROBLEMS IN PHARMACOLOGY. Investigation of individual problems. Prerequisite: consent of instructor. (May be repeated for credit). (1-3).

569. DRUG ABUSE EDUCATION. Pharmacological, legal, and socio-psychological aspects of drug abuse. Prerequisite: fourth-year standing, graduate standing with nonpharmacy major, or consent of instructor. (3).

PHARMACY-PHCY

201. SURVEY OF THE USE, MISUSE, AND ABUSE OF DRUGS, MEDICINES, AND CHEMICALS. Survey of the properties of drugs, medicines, and chemicals which are used, misused, and abused in society. The course is designed for nonpharmacy and prepharmacy majors. (3).

PHARMACY ADMINISTRATION—PHAD

Associate Professor Noel E. Wilkin, chair • 223 Faser Hall

Professors Garner and Vitell • Associate Professors Alidaee, Juergens, McCaffrey, and O'Quin • Assistant Professors J. Bentley, Bouldin, and Sangasubana

NOTE: A grade of at least C is required on all prerequisite courses.

391. PHARMACY ADMINISTRATION I. Individual, social, medical determinants in assessment, organization, and delivery of health care. (3).

392. PHARMACY ADMINISTRATION II. Factors involved in the delivery, financing, and regulation of health care in public and private sectors. Prerequisite: PHAD 391. (3).

490. PROFESSIONAL COMMUNICATIONS IN PHARMACY. Develop an understanding of the nature of communication and the types of communication skills necessary to deliver optimal pharmaceutical services. Prerequisite: PHAD 392. (2).

491. PHARMACY LAW. Pharmacists' common-law and statutory obligations under the American constitutional system of dual national and state authority. Prerequisite: fourth year standing. (2).

493. PHARMACY MANAGEMENT AND BUSINESS METHODS. Nature and principles of management, organization structure, location analysis, layout design, policy formulation, personnel administration, purchasing, inventory control, risk management, promotion, and financial analysis. Prerequisite: fourth-year standing. (4).

494. PHARMACEUTICAL ECONOMICS. Pharmacoeconomics is the description and analysis of the costs of drug therapy to health-care systems and society. Pharmacoeconomic research identifies, measures, and compares the costs (i.e., resources consumed) and consequences of pharmaceutical products and services. (3).

495. TECHNIQUES OF PHARMACEUTICAL SALES. To introduce various strategies and tactics available to those who represent the pharmaceutical industry to therapy decision-makers. (2).

496. PRINCIPLES OF PHARMACEUTICAL MARKETING. The nature and scope of the pharmaceutical industry, its marketing practices and environment with emphasis on skills and techniques used in the efficient administration of a pharmaceutical sales program. Prerequisite: junior standing and consent of instructor. (3).

541, 542. PROBLEMS IN PHARMACY ADMINISTRATION. Investigation of individual problems. Prerequisite: minimum GPA of 2.50 on all professional pharmacy courses attempted and consent of instructor. (1-3, 1-3).

543, 544. SEMINAR IN CURRENT HEALTH TOPICS. (Z grade). (1, 1).

597. MEDICAL ANTHROPOLOGY. Social factors in health and illness. Social influences on need, demand, provision, and compliance with medical care. (Same as ANTH 597). (3).

PHARMACY PRACTICE—PRCT

Professor H. Joseph Byrd, chair • UMMC Office Annex Building 125

Professor John D. Cleary, vice chair for research

Associate Professor Gary D. Theilman, vice chair for practice, education, and student affairs

Professors T. Brown and Wells • Associate Professors Crabtree and Vinson • Assistant Professors Adcock, Harrell, King, and Ramsey • Clinical Assistant Professors Austin, Ayers, Bingham, Bloodworth, B. Brown, Dean, Dickey, Dillon, Dumas, Evans, Haines, Hogan, Hood, Hope, Jaeger, Lasseigne, Lee, P. Malinowski, S. Malinowski, McQueen, Murphey, Ogletree, J. Pitcock, M. Pitcock, Pittman, Robinson, Spicer, Steevens, Strong, Todaro, Tubb, and Warren • Instructors S. Bentley and Coon

NOTE: A grade of at least C is required on all prerequisite courses. Courses preceded by an asterisk (*) can only be taken after successful completion of PRCT 555, 556, 558, 559, 561, 562, 564, and 565 or PRCT 579.

350. PHARMACY ORIENTATION. An introduction to the School of Pharmacy and to the resources available for use by the student. An overview of school and faculty expectations of the student. Prerequisite: admission to the professional degree program. (1).

450. PHARMACY PRACTICE I. To provide the student with fundamentals of practice research, diagnostic laboratory tests, nursing home, and hospital pharmacy practice. (2).

451. PHARMACY PRACTICE II. To provide the student with essential skills for ambulatory pharmacy practice, pharmaceutical care, and patient self-care. (2).

452. PHARMACY PRACTICE III. To provide the student with a systematic, problem-solving process that teaches students the skills needed to provide direct, responsible, outcome-focused care to improve a patient's quality of life. (1).

475, 476. INTRODUCTORY PHARMACY PRACTICE EXPERIENCE. An introduction (two-week, 40 hours/week) to distributive community or institutional pharmacy practice, or to a nontraditional form of pharmacy practice. (1), (1). (Z grade).

520. CASE MANAGEMENT I. Consists of 10 cases from the case management course sequence. The cases will be defended at six remote sites located in Memphis, Tupelo, Oxford, Jackson, Hattiesburg, and Biloxi. Prerequisite: PRCT 530. (1).

521. CASE MANAGEMENT II. Consists of 10 cases from the case management course sequence. The cases will be defended at six remote sites located in Memphis, Tupelo, Oxford, Jackson, Hattiesburg, and Biloxi. Prerequisite: PRCT 520. (1).

- 522. CASE MANAGEMENT III.** Consists of 10 cases from the case management course sequence. The cases will be defended at six remote sites located in Memphis, Tupelo, Oxford, Jackson, Hattiesburg, and Biloxi. Prerequisite: PRCT 520. (1).
- 523. CASE MANAGEMENT IV.** Consists of 10 cases from the case management course sequence. The cases will be defended at six remote sites located in Memphis, Tupelo, Oxford, Jackson, Hattiesburg, and Biloxi. Prerequisite: PRCT 520. (1).
- 524. CASE MANAGEMENT V.** Consists of 10 cases from the case management course sequence. The cases will be defended at six remote sites located in Memphis, Tupelo, Oxford, Jackson, Hattiesburg, and Biloxi. Prerequisite: PRCT 523. (1).
- 525. CASE MANAGEMENT VI.** Consists of 10 cases from the case management course sequence. The cases will be defended at six remote sites located in Memphis, Tupelo, Oxford, Jackson, Hattiesburg, and Biloxi. Prerequisite: PRCT 523. (1).
- 526. CASE MANAGEMENT VII.** Consists of 10 cases from the case management course sequence. The cases will be defended at six remote sites located in Memphis, Tupelo, Oxford, Jackson, Hattiesburg, and Biloxi. Prerequisite: PRCT 523. (1).
- 527. CASE MANAGEMENT VIII.** Consists of 10 cases from the case management course sequence. The cases will be defended at six remote sites located in Memphis, Tupelo, Oxford, Jackson, Hattiesburg, and Biloxi. Prerequisite: PRCT 526. (1).
- 528. CASE MANAGEMENT IX.** Consists of 10 cases from the case management course sequence. The cases will be defended at six remote sites located in Memphis, Tupelo, Oxford, Jackson, Hattiesburg, and Biloxi. Prerequisite: PRCT 526. (1).
- 529. CASE MANAGEMENT X.** Consists of 10 cases from the case management course sequence. The cases will be defended at six remote sites located in Memphis, Tupelo, Oxford, Jackson, Hattiesburg, and Biloxi. Prerequisite: PRCT 526. (1).
- 530. CLINICAL SKILLS EVALUATION I.** A course involving a two-week period of evaluation performed by a clinical teacher-practitioner at one of six remote practice sites maintained and funded by The University of Mississippi School of Pharmacy. Prerequisite: PRCT 579.
- 531. CLINICAL SKILLS EVALUATION II.** A course involving a two-week period of evaluation performed by a clinical teacher-practitioner at one of six remote practice sites maintained and funded by The University of Mississippi School of Pharmacy. Prerequisites: PRCT 524 and 530.
- 532. CLINICAL SKILLS EVALUATION III.** A course involving a two-week period of evaluation performed by a clinical teacher-practitioner at one of six remote practice sites maintained and funded by The University of Mississippi School of Pharmacy. Prerequisites: PRCT 529 and 531.
- 541, 542. PROBLEMS IN CLINICAL PHARMACY.** Individual investigation of problems of current clinical interest in pharmacy. (1-3, 1-3).
- 551. INFORMATION SKILLS IN PHARMACY PRACTICE.** Introduction to use of computerized drug information databases, biostatistics, drug literature evaluation, and clinical research design. Prerequisites: B.S. in pharmacy or B.S. in pharmaceutical sciences (practice track). (1). (Z grade).
- *553. CLINICAL EXTERNSHIP (community).** Six-week professional experience program offered at approved community pharmacies. (6). (Z grade).
- *554. CLINICAL EXTERNSHIP (institutional).** Six-week professional experience program offered at approved hospital pharmacies. (6) (Z grade).
- 555. PHARMACEUTICAL CARE I: KNOWLEDGE AND COMPREHENSION.** A course designed to integrate clinical and scientific disciplines using patient cases as the basis for group discussions. Emphasis is placed on the development of the core knowledge base required of a pharmacist. Corequisites: PRCT 556, 557. (3).
- 556. PHARMACEUTICAL CARE I: PROBLEM-SOLVING.** A course designed to integrate clinical and scientific disciplines using patient cases as the basis for group discussions. Emphasis is placed on the development of problem-solving skills. Corequisites: PRCT 555, 557. (3).
- 557. PHARMACEUTICAL CARE I: GROUP.** A course designed to integrate clinical and scientific disciplines using patient cases as the basis for group discussions. Emphasis is placed on the development of independent learning and communication skills. Corequisites: PRCT 555, 556. (2).
- 558. PHARMACEUTICAL CARE II: KNOWLEDGE AND COMPREHENSION.** A course designed to integrate clinical and scientific disciplines using patient cases as the basis for group discussions. Emphasis is placed on the development of the core knowledge base required of a pharmacist. Corequisites: PRCT 559, 560. (3).
- 559. PHARMACEUTICAL CARE II: PROBLEM-SOLVING.** A course designed to integrate clinical and scientific disciplines using patient cases as the basis for group discussions. Emphasis is placed on the development of problem-solving skills. Corequisites: PRCT 558, 560. (3).

- 560. PHARMACEUTICAL CARE II: GROUP.** A course designed to integrate clinical and scientific disciplines using patient cases as the basis for group discussions. Emphasis is placed on the development of independent learning and communication skills. Corequisites: PRCT 558, 559. (2).
- 561. PHARMACEUTICAL CARE III: KNOWLEDGE AND COMPREHENSION.** A course designed to integrate clinical and scientific disciplines using patient cases as the basis for group discussions. Emphasis is placed on the development of the core knowledge base required of a pharmacist. Corequisites: PRCT 562, 563. (3).
- 562. PHARMACEUTICAL CARE III: PROBLEM-SOLVING.** A course designed to integrate clinical and scientific disciplines using patient cases as the basis for group discussions. Emphasis is placed on the development of problem-solving skills. Corequisites: PRCT 561, 563. (3).
- 563. PHARMACEUTICAL CARE III: GROUP.** A course designed to integrate clinical and scientific disciplines using patient cases as the basis for group discussions. Emphasis is placed on the development of independent learning and communication skills. Corequisites: PRCT 561, 562. (2).
- 564. PHARMACEUTICAL CARE IV: KNOWLEDGE AND COMPREHENSION.** A course designed to integrate clinical and scientific disciplines using patient cases as the basis for group discussions. Emphasis is placed on the development of the core knowledge base required of a pharmacist. Corequisites: PRCT 565, 569. (3).
- 565. PHARMACEUTICAL CARE IV: PROBLEM-SOLVING.** A course designed to integrate clinical and scientific disciplines using patient cases as the basis for group discussions. Emphasis is placed on the development of problem-solving skills. Corequisites: PRCT 564, 569. (3).
- 566. SEMINAR SKILLS DEVELOPMENT FOR HEALTH PROFESSIONALS.** Course on developing the basic skills needed for effective presentation of pharmacy-oriented material. Prerequisite: B.S. in pharmacy or B.S. in pharmaceutical sciences (practice track). (1). (Z grade).
- 567. SEMINAR SKILLS DEVELOPMENT FOR HEALTH PROFESSIONALS II.** Continuation of PRCT 566. Course on developing the basic skills needed for the effective presentation of pharmacy-oriented material. Prerequisite: PRCT 566. (1). (Z grade).
- 568. PHARMACY BIOMEDICAL ETHICS.** Seminar course is designed to explore topics to include clinical ethics, women's health issues, alternative/complimentary medicine, and practice management. The students will examine a number of patient-sensitive issues and evaluate literature in support of their own and opposing beliefs. (2). (Z grade).
- 569. PHARMACEUTICAL CARE IV: GROUP.** A course designed to integrate clinical and scientific disciplines using patient cases as the basis for group discussions. Emphasis is placed on the development of independent learning and communication skills. Corequisites: PRCT 564, 565. (2).
- 570. PHARMACY GRAND ROUNDS I.** Lecture series covering the most current issues facing the practice and profession of pharmacy. Lectures will be provided by local and national pharmacy experts. Prerequisite: B.S. in pharmacy or B.S. in pharmaceutical sciences (practice track). (1). (Z grade).
- 572. PHARMACY GRAND ROUNDS II.** Continuation of PRCT 570. Lecture series covering the most current issues facing the practice and profession of pharmacy. Lectures will be provided by local and national pharmacy experts. Prerequisite: PRCT 551, 566, 570, 576, 577. (1). (Z grade).
- 575. DRUG INFORMATION, LITERATURE EVALUATION, AND RESEARCH DESIGN.** A didactic and hands-on course that introduces the student to methods for retrieval, evaluation, interpretation, and communication of information about medications and their use. (3).
- 576. PHARMACEUTICAL CARE I.** A course designed to integrate clinical and scientific discipline using patient cases as the basis for group discussions. Emphasis is placed on development of independent learning and communication skills. Prerequisite: B.S. in pharmacy. (8).
- 577. PHARMACEUTICAL CARE II.** Continuation of Pharmaceutical Care I. A course designed to integrate clinical and scientific discipline using patient cases as the basis for group discussions. Emphasis is placed on development of independent learning and communication skills. Prerequisite: PRCT 576. (8).
- 578. PHARMACEUTICAL CARE III.** Continuation of Pharmaceutical Care II. A course designed to integrate clinical and scientific discipline using patient cases as the basis for group discussions. Emphasis is placed on development of independent learning and communication skills. Prerequisite: PRCT 577. (8).
- 579. PHARMACEUTICAL CARE IV.** Continuation of Pharmaceutical Care III. A course designed to integrate clinical and scientific discipline using patient cases as the basis for group discussions. Emphasis is placed on development of independent learning and communication skills. Prerequisite: PRCT 578. (8).

- *586. ADULT MEDICINE CLERKSHIP.** A required course designed to provide in-depth experience and clinical competence in dealing with acutely ill patients in a hospital environment with emphasis on rational therapeutics. (6).
- *587. AMBULATORY CARE CLERKSHIP.** A required clerkship in which students gain clinical experience and competence with ambulatory patients by participating as a drug consultant and primary care provider for patients in an outpatient environment. (6).
- *591. ELECTIVE CLERKSHIP.** Six-week blocks of practical experience in specialty practice areas under the coordination of a faculty preceptor. Course may be taken three times for elective credit in specialty area of choice. (6).
- *AMBC 591. AMBULATORY CARE CLERKSHIP.** An elective experiential course consisting of a full-time six-week exposure emphasizing the rational use of therapeutic agents and disease management in ambulatory care patients. Prerequisite: PRCT 587. (6).
- *CARD 591. CARDIOLOGY CLERKSHIP.** An experiential course consisting of a full-time six-week exposure emphasizing the rational use of therapeutic agents and disease management in cardiology patients. (6).
- *COMM 591. COMMUNITY PHARMACY CLERKSHIP.** An experiential course consisting of a full-time six-week exposure emphasizing the rational use of therapeutic agents and disease management in patients in a community-practice setting. Prerequisite: PRCT 553. (6).
- *CRIT 591. CRITICAL CARE CLERKSHIP.** An experiential course consisting of a full-time six-week exposure emphasizing the rational use of therapeutic agents and disease management in critical care patients. (6).
- *DINF 591. DRUG INFORMATION CLERKSHIP.** An experiential course consisting of a full-time six-week exposure emphasizing the utilization of drug information resources, both electronic and nonelectronic, in providing optimal patient care. (6).
- *EMER 591. EMERGENCY MEDICINE CLERKSHIP.** An experiential course consisting of a full-time six-week exposure emphasizing the rational use of therapeutic agents in the emergency care setting. (6).
- *GERA 591. GERIATRICS CLERKSHIP.** An experiential course consisting of a full-time six-week exposure emphasizing the rational use of therapeutic agents and disease management in geriatric patients. (6).
- *INDY 591. PHARMACEUTICAL INDUSTRY CLERKSHIP.** An experiential course consisting of a full-time six-week exposure emphasizing the role and function of the pharmaceutical industry in providing health care professionals medication information. (6).
- *INFD 591. INFECTIOUS DISEASES CLERKSHIP.** An experiential course consisting of a full-time six-week exposure emphasizing the rational use of therapeutic agents and disease management in infectious disease patients. (6).
- *MANC 591. MANAGED CARE CLERKSHIP.** An experiential education course consisting of a full-time six-week experience emphasizing the role of managed healthcare delivery systems, the roles and responsibilities of pharmacy benefits management companies, and basic business and economic concepts. (6).
- *MEDC 591. MEDICINE CLERKSHIP.** An elective experiential course consisting of a full-time six-week exposure emphasizing the rational use of therapeutic agents and disease management in medicine patients. Prerequisite: PRCT 586. (6).
- *NEUR 591. NEUROLOGY CLERKSHIP.** An experiential course consisting of a full-time six-week exposure emphasizing the rational use of therapeutic agents and disease management in neurology patients. (6).
- *NUTR 591. NUTRITION CLERKSHIP.** An experiential course consisting of a full-time six-week exposure emphasizing the rational use of nutritional support in patient care. (6).
- *ONCL 591. ONCOLOGY CLERKSHIP.** An experiential course consisting of a full-time six-week exposure emphasizing the rational use of therapeutic agents and disease management in oncology patients. (6).
- *PEDS 591. PEDIATRIC CLERKSHIP.** An experiential course consisting of a full-time six-week exposure emphasizing the rational use of therapeutic agents and disease management in pediatric patients. (6).
- *PKIN 591. PHARMACOKINETICS CLERKSHIP.** An experiential course consisting of a full-time six-week exposure emphasizing the applied use of pharmacokinetic principles in providing optimal patient care. (6).
- *POIS 591. POISON CONTROL CLERKSHIP.** An experiential course consisting of a full-time six-week exposure emphasizing the role and function of a Poison Control Center. (6).

***PSYC 591. PSYCHIATRY CLERKSHIP.** An experiential course consisting of a full-time six-week exposure emphasizing the rational use of therapeutic agents and disease management in psychiatric patients. (6).

***SURG 591. SURGERY CLERKSHIP.** An experiential course consisting of a full-time six-week exposure emphasizing the rational use of therapeutic agents and disease management in surgery patients. (6).

***599. CLINICAL TRIAL SKILLS.** Course instructs how to assess and perform multiple types of clinical trials, follow up statistical analysis and publication of results. Prerequisite: PRCT 586. (3).

PHILOSOPHY AND RELIGION

Professor Michael Harrington, chair • 302 McDonnell-Barksdale Honors College

Professor Lawhead • Associate Professor Westmoreland • Assistant Professors Cozad and Manson • Assistant Professors Barnard and Thurlkill

Philosophy–PHIL

Introductory Level

101. INTRODUCTION TO PHILOSOPHY. Survey of major philosophers and traditional philosophical problems concerning knowledge, values, and the nature of reality. (3).

103. LOGIC: CRITICAL THINKING. Principles and methods of sound reasoning, emphasizing analysis of everyday arguments. (Same as LING 103). (3).

History, Major Thinkers, and Themes

301. HISTORY OF PHILOSOPHY I. Major philosophers from the Pre-Socratics through the Medieval Period. (3).

302. HISTORY OF PHILOSOPHY II. Major philosophers from the Renaissance through the early 20th century. (3).

307. MEDIEVAL PHILOSOPHY. The Scholastic tradition, from its patristic origins through Nicholas of Cusa. (3).

308. BUDDHISM. Survey of Buddhism in its historical and contemporary contexts. (Same as REL 308). (3).

309. ASIAN PHILOSOPHY. Examination of Asian thought in the Hindu, Buddhist, Taoist, and Confucian traditions. (Same as REL 309). (3).

310. SOCRATES AND SOPHISTRY. The intellectual ferment surrounding the development of philosophy in fifth century Athens; its origins and consequences in literature and politics. Readings focus on Socrates; drama, early philosophical texts, the Sophists and Plato. (Same as CLC 310). (3).

311. PLATO. The dialogues and their influence on later thought. (3).

313. ARISTOTLE. Major ideas and issues in the Aristotelian writings. (3).

315. AQUINAS. A study of Thomist themes and issues in the development of the Medieval Synthesis. (3).

316. WHITEHEAD. A survey of his philosophical development from the mathematical works to "Process and Reality." (3).

318. EXISTENTIALISM. Development of existential themes from Kierkegaard through Sartre, and in recent existential theology and psychology. (3).

Fields

320. AESTHETICS. Introduction to aesthetic theory, e.g., basic concepts and problems of art, beauty, and significant form. (3).

321. ETHICS. Introduction to ethical theory, from the classical period to the present. (3).

322. EPISTEMOLOGY. Introduction to the theory of knowledge, its nature, limits, and conditions. (3).

323. METAPHYSICS. Introduction to the theories of reality from classical to contemporary times. (3).

Applied Philosophy

- 326. BIOETHICS.** Ethical issues in the health care professions. (Open only to students in the School of Pharmacy.) (1).
- 328. BIOMEDICAL ETHICS.** Ethical issues in contemporary biomedicine, e.g., death and dying, patient rights, and the challenges of new medical technology. (3).
- 331. POLITICAL PHILOSOPHY.** Theories of the state and the just society in classical political thought from Plato to the present. (3).
- 340. PHILOSOPHY AND COMPUTER TECHNOLOGY.** Philosophical issues raised by recent advances in computers and artificial intelligence. No experience with computers necessary. (3).
- 342. PHILOSOPHY OF MIND.** An introduction to philosophical psychology, e.g., the body/mind problem, the nature of consciousness, and personal identity. (3).
- 345. ENVIRONMENTAL ETHICS.** Ethical implications of environmental problems, e.g., pollution, allocation of scarce resources, ecosystems, and their disruption. (3).
- 350. PHILOSOPHY OF LAW.** Philosophical issues in law, e.g., its relation to ethics and politics, the nature of justice and of responsibility. (3).
- 351. PHILOSOPHY OF RELIGION.** Philosophical questions in religious thought, e.g., the existence of God, the problem of evil, the nature of religious belief and experience. (Same as REL 351). (3).
- 353. PHILOSOPHY OF WAR.** Major philosophical problems in war, e.g., its nature, its justification, pacifism, and the morality of CBN weaponry. (3).
- 357. BUSINESS ETHICS.** Ethical problems in business theory and practice, e.g., the myth of amoral business, conflicts of interest, and employer-employee rights and obligations. (3).
- 360. PHILOSOPHICAL ISSUES IN SCIENCE AND RELIGION.** Investigation of philosophical relationships between religion and science from the Renaissance to the present day, emphasizing methodological and conceptual issues. (Same as REL 360). (3).
- 390. WOMEN AND PHILOSOPHY.** A survey of contemporary theories and philosophical issues centering on women and feminism. (Same as G ST 390). (3).
- 399. TOPICS IN PHILOSOPHY ABROAD.** Students do departmentally approved course work at a foreign university. May be repeated with permission of the chair of the Department of Philosophy and Religion. (1-6).

Undergraduate Majors

- 490. DIRECTED READINGS IN PHILOSOPHY.** Individual research into selected philosophical issues; content varies. Consent of instructor required. (May be repeated once for credit). (3).
- 497. SENIOR SEMINAR.** Development of advanced skills in philosophical analysis and criticism through writing and presenting philosophical papers. Prerequisite: senior standing. (3).

Seminars and Advanced Work

- 502. PHILOSOPHY IN THE UNITED STATES.** Survey of American philosophy from colonial times to the present. (3).
- 503. SEMINAR.** Selected topics. Content varies. (3).
- 506. CONTEMPORARY POLITICAL PHILOSOPHY.** Philosophical issues in recent political thought. (3).
- 508. SYMBOLIC LOGIC.** Symbolic techniques used in formalizing the basic logical principles and in constructing rigorous proofs and demonstrations. (Same as LING 508). (3).
- 511. PHILOSOPHY OF SCIENCE.** Survey of philosophical issues in scientific theory and practice, including the nature of scientific method and explanation. (3).
- 516. CONTEMPORARY ETHICAL THEORY.** Recent ethical and metaethical theories and issues: e.g., the nature of morality, relativism, the relation of ethics to law and religion. (3).
- 518. CONTEMPORARY THEORIES IN PHILOSOPHY OF RELIGION.** Recent work in the philosophy of religion, such as process thought, Eastern religion, and religious epistemology. (3).
- 519. PHILOSOPHY OF LANGUAGE.** Survey of major philosophical problems in language, including meaning, reference, relations of language to thought and being. (3).
- 520. PROBLEMS IN ENVIRONMENTAL ETHICS.** Selected problems, such as population dynamics, ecosystem disruption, and environmental rights. (3).
- 521. CONTEMPORARY PHILOSOPHY.** Recent developments in philosophy. (3).

Religion–REL

Introductory Level

101. INTRODUCTION TO RELIGION. Survey of religion and of the major world religions. (3).

Western Religion

303. RELIGION IN THE SOUTH. Southern religion and its cultural, racial, and political impact from the Great Awakening to the present. (Same as HIS 337). (3).

310. THE OLD TESTAMENT AND EARLY JUDAISM. A survey of the Hebrew Bible and the development of Judaism. (3).

312. THE NEW TESTAMENT AND EARLY CHRISTIANITY. A survey of the New Testament writings in their role in the development of early Christianity. (3).

319. UNITED STATES RELIGIOUS HISTORY. The role of religious ideas and institutions in the development of the United States. (Same as HIST 319). (3).

323. ISLAM. An introduction to the sacred literature, basic beliefs, history, and culture of Islam. (3).

324. ABRAHAMIC TRADITIONS. An introduction to the beliefs and traditions of Judaism, Christianity, and Islam. (3).

326. SAINTS AND SEXUALITY. A survey of holy figures within Christianity and Islam with an emphasis on gender and the body. (Same as G ST 325). (3).

366. WOMEN OF THE JUDEO-CHRISTIAN BIBLE. A critical study of the significant women in the sacred literature of the Western prophetic tradition. (Same as G ST 366). (3).

373. ANCIENT CHRISTIANITY. Development of Christian doctrines from apostolic times to the seventh Ecumenical Council of 787. (Same as HIS 373). (3).

375. HISTORY OF MEDIEVAL CHRISTIANITY. Examination of Christian theologies from Constantine to the Protestant Reformation. (Same as HIS 375). (3).

503. MAJOR ISSUES IN SOUTHERN RELIGION. Selected problems in religion in the American South; e.g., biblical defenses of racial practices, the slave religion controversy, interrelation of evangelical theology and political involvement. (3).

Eastern Religion

308. BUDDHISM. Survey of Buddhism in its historical and contemporary contexts. Same as PHIL 308). (3).

309. ASIAN RELIGION. Examination of Asian thought in the Hindu, Buddhist, Taoist, and Confucian traditions. (Same as PHIL 309). (3).

311. WOMEN AND THE GODDESS IN EASTERN RELIGION. Exploration of Goddess figures and the social roles of women in the Hindu, Buddhist, and Taoist traditions. (Same as G ST 311). (3).

320. HINDUISM. Survey of Hinduism and its cultural impact on the Indian subcontinent. (3).

322. CHINESE RELIGIONS. Survey of the major Chinese religions, including Taoism, Confucius, and Chinese Buddhism. (3).

Topics

345. RELIGION AND POLITICS. The involvement of religion in politics nationally and internationally. (3).

351. PHILOSOPHY OF RELIGION. (Same as PHIL 351). (3).

360. PHILOSOPHICAL ISSUES IN SCIENCE AND RELIGION. Investigation of philosophical relationships between religion and science from the Renaissance to the present day, emphasizing methodological and conceptual issues. (Same as PHIL 360). (3).

399. TOPICS IN RELIGION ABROAD. Students do departmentally approved course work at a foreign university. May be repeated with permission of the chair of the Department of Philosophy and Religion. (3).

Undergraduate Majors (Emphasis in Philosophy and Religion)

490. DIRECTED READINGS IN RELIGION. Individual research into selected religious issues; content varies. Consent of instructor required. (May be repeated once for credit). (3).

497. CAPSTONE COURSE. Development of advanced skills in philosophical analysis and criticism through writing and presenting papers in religion. Prerequisite: senior standing. (3).

Seminars and Advanced Work

501. SEMINAR. Selected topics. Content varies. (3).

PHYSICAL THERAPY *See the College of Liberal Arts section on Departmental Major and Minor Requirements and the Medical Center chapter.*

PHYSICS AND ASTRONOMY

Professor Thomas C. Marshall, chair • 108 Lewis Hall

Frederick A.P. Barnard Distinguished Professor Henry E. Bass • Professors Cremaldi, Raspet, Reidy, and Summers • Visiting Professor Stipcevic • Associate Professors Kroeger and Ostrovskii • Assistant Professors Bombelli, Cavaglia, and Quinn • Distinguished Research Professor Breazeale • Research Professors Gilbert and Sabatier • Research Assistant Professors Hickey, Lu, Stolzenburg and Torma • Adjunct Professors Arnott, Atchley, Caruthers, Crum, Korman, Lafleur, and Rust • Research Associate Professors Church, Ostrovskaya, and Waxler

Astronomy—ASTR

101. DESCRIPTIVE ASTRONOMY I. Lectures, text assignments, and observations through the telescope. Astronomy 101 does not include laboratory work. A student may not receive credit for both Astronomy 101 and Astronomy 103, nor for both Astronomy 101 and Astronomy 104. (3).

102. DESCRIPTIVE ASTRONOMY II. Lectures, text assignments, and observations through the telescope. Astronomy 102 does not include laboratory work. A student may not receive credit for both Astronomy 102 and Astronomy 103, nor for both Astronomy 102 and Astronomy 104. (3).

103. ASTRONOMY I. Lectures, demonstrations in astronomy, laboratory experiences in celestial mechanics and light, and observations through an optical telescope in an integrated lecture-laboratory sequence. (Lecture meets twice weekly in the daytime, laboratory meets once weekly in the afternoon or at night). (3).

104. ASTRONOMY II. Lectures, demonstrations in astronomy, laboratory experiences in celestial mechanics and light, and observations through an optical telescope in an integrated lecture-laboratory sequence. (Lecture meets twice weekly in the daytime, laboratory meets once weekly in the afternoon or at night). (3).

Physics—PHYS

A course in physics may be attempted for credit only twice without departmental approval.

101. INTRODUCTION TO PHYSICS I. Overview of topics of current interest in physics with emphasis on research activities in the field. (1).

102. INTRODUCTION TO PHYSICS II. Overview of topics of current interest in physics with emphasis on research activities in the field. (1).

107. PHYSICAL SCIENCE I. Lectures, demonstrations, and laboratory exercises on topics relating to a study of the physical universe. Included is a survey of physics, astronomy, and chemistry in an integrated lecture-laboratory sequence. (3).

- 108. PHYSICAL SCIENCE II.** Lectures, demonstrations, and laboratory exercises on topics relating to a study of the physical universe. Included is a survey of physics, astronomy, and chemistry in an integrated lecture-laboratory sequence. (3).
- 111. PHYSICS OF SOUND AND MUSIC.** Wave properties and sound; the manner in which sounds are produced and heard; the physical basis for musical scales; and the effect of noise in our environment. (1).
- 112. PHYSICS OF LIGHT, COLOR AND ART.** Topics relating to sources, characteristics and nature of light, optical instruments, and the relation of light, color and visual perception in art. (1).
- 123. PHYSICS OF THE ATMOSPHERE.** Physical principles of atmospheric phenomena presented in an integrated lecture-laboratory format (2 lecture hours and 2 laboratory hours per week); composition and structure of the atmosphere, energy flows, and the resulting air motions and weather from small to planetary scales. (3).
- 211. PHYSICS FOR SCIENCE AND ENGINEERING I.** General physics taught with the aid of calculus. (211, 212 with 221, 222 satisfies the engineering and science major requirements for physics.) Corequisites: PHYS 221 and MATH 261. (3).
- 212. PHYSICS FOR SCIENCE AND ENGINEERING II.** General physics taught with the aid of calculus. Prerequisite: PHYS 211. Corequisites: PHYS 222 and MATH 262. (3).
- 213. GENERAL PHYSICS I.** Mechanics, heat, sound, light, magnetism, and electricity. (PHYS 213, 214 with 223, 224 satisfies the physics requirement for pre-pharmacy and pre-medical students.) Prerequisites: MATH 121 and 123 or 261. (3).
- 214. GENERAL PHYSICS II.** Mechanics, heat, sound, light, magnetism, and electricity. Prerequisite: PHYS 213. Corequisite: PHYS 224. (3).
- 215. PHYSICS FOR PHARMACEUTICAL SCIENCES.** A study of physics topics relevant to a program of study in pharmaceutical sciences. Lectures and coordinated laboratory exercises in classical and modern physics. Prerequisite: MATH 261 and consent of pharmacy dean. (4).
- 221. LABORATORY PHYSICS FOR SCIENCE AND ENGINEERING I.** Laboratory experiments coordinated with lecture topics in PHYS 211. Corequisite: PHYS 211. (1).
- 222. LABORATORY PHYSICS FOR SCIENCE AND ENGINEERING II.** Laboratory experiments coordinated with lecture topics in PHYS 212. Corequisite: PHYS 212. Prerequisite: PHYS 221. (1).
- 223. LABORATORY PHYSICS I.** Laboratory experiments coordinated with lecture topics in PHYS 213. Corequisite: PHYS 213. (1).
- 224. LABORATORY PHYSICS II.** Laboratory experiments coordinated with lecture topics in PHYS 214. Corequisite: PHYS 214. Prerequisite: PHYS 223. (1).
- 303. PHYSICAL THEORY.** Physical principles of both classical and modern physics formulated as mathematical problems in differential and integral calculus. Intended for those who have taken PHYS 213, 214. Prerequisites: PHYS 214 and MATH 262. (3).
- 308. MATHEMATICAL PHYSICS.** Application of differential equations, vectors, and other techniques to physical problems. Prerequisite: PHYS 212; prerequisite or corequisite: MATH 353. (3).
- 309. THERMODYNAMICS.** General theory and applications of thermodynamics, kinetic theory and statistical mechanics. Prerequisite: PHYS 212. Corequisite: MATH 353. (3).
- 310. MECHANICS.** Static and dynamic aspects of particle and rigid body mechanics, including Lagrange's equations and generalized coordinates. Prerequisite: PHYS 212 and MATH 353. (3).
- 313. PHYSICS AND BIOPHYSICS OF AIR AND WATER.** The basic physical properties of air and water are described as well as the effect of these properties on various biological processes and organisms. Prerequisite: PHYS 212 or 214. (3).
- 315. RADIATION SCIENCE.** Introductory lectures and demonstrations on the interaction of radiation with matter with application to physical and biological systems. Prerequisite: PHYS 212 or 214. (3).
- 317. INTRODUCTION TO MODERN PHYSICS I.** Introduction to relativity; atomic, molecular and solid state physics. Prerequisite: PHYS 212. (3).
- 318. INTRODUCTION TO MODERN PHYSICS II.** Introduction to quantum mechanics, nuclear and elementary particle physics. Prerequisite: PHYS 317. (3).
- 319. OPTICS.** Intermediate description of electromagnetic wave propagation; topics in geometrical and physical optics including interference diffraction, polarization, and laser physics; lab exercises in physical and geometrical optics. (Lecture-laboratory course). Prerequisite: PHYS 212 or 214, MATH 262. (4).

321. ELECTRONICS. Introduction to applications in electronics for scientists. Passive components, ac circuit theory, transistors and amplifiers, operational amplifiers and applications. (Lecture and laboratory course). Prerequisite: PHYS 212 or 214, MATH 262. (4).

401. ELECTROMAGNETIC THEORY I. Electrostatics, electric and magnetic properties of matter, Maxwell's equations and their solutions, propagation and radiation of electromagnetic waves. Prerequisite: PHYS 212. Corequisite: MATH 353. (3).

402. ELECTROMAGNETIC THEORY II. Electrostatics, electric and magnetic properties of matter, Maxwell's equations and their solutions, propagation and radiation of electromagnetic waves. Prerequisite: PHYS 401. (3).

413. INTRODUCTION TO BIOPHYSICS. Selected topics in biomechanics, bioelectricity, ionic and molecular transport, biophysical kinetics, radiation biophysics, body temperature regulation and biophysical measurements and techniques. Prerequisites: PHYS 212 or 214 and MATH 262. (3).

415. RADIATION PHYSICS LABORATORY. Selected experiments in radiation physics including scintillation and solid state detectors, interaction of radiation with matter and nuclear instrumentation. Prerequisite: PHYS 315. (Laboratory course). (3).

417. MODERN PHYSICS LABORATORY. Basic application of theories of measurement, instrumentation and error to laboratory research. Experiments in classical and modern physics including measurements of fundamental constants, vacuum technology, Mossbauer effect, EST, and Hall effect, and advanced experiments in nuclear and particle physics. (Laboratory course). Prerequisite: PHYS 317 or consent of instructor. (4).

422. DIGITAL ELECTRONICS AND MICROPROCESSORS. Introduction to digital techniques, logic circuits, registers and microcomputer basics; microprocessor interfacing to scientific instrumentation. (Lecture-laboratory course). (3).

425. NUCLEAR AND PARTICLE PHYSICS LABORATORY. Experiments in radioactive decay, nuclear detectors, and instrumentation, including ionization, scintillation, and solid state detectors, electronic logic and timing circuits, and microprocessor controlled systems. (Laboratory course). Prerequisite: PHYS 318. (3).

451. INTRODUCTION TO QUANTUM MECHANICS. An introduction to nonrelativistic quantum mechanics; the Schrodinger equation and its application to simple systems. Prerequisites: PHYS 308 and 318 or consent of instructor. (3).

461. SENIOR SEMINAR. A discussion of current topics in physics. Intended primarily for undergraduates. Prerequisite: consent of instructor. (1).

463. SENIOR RESEARCH PROJECT. An individual research project involving an experimental or theoretical investigation for which a written report is required. Prerequisite: consent of instructor. (1-3).

464. SENIOR RESEARCH PROJECT. An individual research project involving an experimental or theoretical investigation for which a written report is required. Prerequisite: PHYS 463. (1-3).

498. MAJOR FIELD ACHIEVEMENT TEST. Students taking the Education Testing Service Major Field Assessment Test in physics (or an equivalent test as decided by the department) to evaluate basic knowledge and understanding gained in the undergraduate physics curriculum. Required for graduation as a physics major. (0).

503. SELECTED TOPICS IN PHYSICS. Prerequisite: Consent of the instructor; may be repeated for credit up to 9 hours. (3).

507. DIRECTED RESEARCH. Guided experimental work for the development of research laboratory skills. (Departmental approval required; cannot be used for degree credit; may be repeated for credit). (1-3). (Z grade).

510. RESEARCH SEMINAR. Philosophy and principles of modern physics research. May be repeated for credit. (Z grade). (1).

521. ACOUSTICS. Mathematical description of sound propagation with various boundary conditions. Prerequisite: PHYS 402 or graduate status. (3).

522. ACOUSTICS LABORATORY. A laboratory course to complement an acoustics lecture course; emphasis on a study of wave phenomena and acoustical measurements. Corequisite: PHYS 521 or graduate status. (1).

523. INTRODUCTION TO ELEMENTARY PARTICLE PHYSICS. Phenomenology. Symmetries and conservation laws. Quarks, leptons, gauge bosons. Standard model. Experimental techniques of particle physics. Corequisites: PHYS 451 or graduate status. (3).

532. ADVANCED ACOUSTICS LABORATORY. Advanced laboratory projects in acoustics involving experiments in sound measurement and analysis, vibration, transducers, architectural and underwater acoustics. Prerequisite: PHYS 521 or consent of instructor. (3).

533. SURVEY OF TOPICS IN PHYSICS I. Topics of special interest to teachers of life and physical sciences. Not applicable to a professional degree in physics. Prerequisite: consent of instructor. (3).

534. SURVEY OF TOPICS IN PHYSICS II. Topics of special interest to teachers of life and physical sciences. Not applicable to a professional degree in physics. Prerequisite: PHYS 533 or consent of instructor. (3).

551. THEORETICAL PHYSICS I. Mathematical aspects of the theoretical formulation of classical and modern physics. Prerequisite: PHYS 308 or graduate status. (3).

552. THEORETICAL PHYSICS II. Mathematical aspects of the theoretical formulation of classical and modern physics. Prerequisite: PHYS 551. (3).

POLITICAL SCIENCE—POL

Professor Richard G. Forgette, chair • 116 Dupree Hall

Professors Albritton and Winkle • Associate Professors Brown, Bruce, Cooper, Palmer, and Smith • Assistant Professors Burnside, Guo, Long, Nordstrom, and Schwindt-Bayer

American Politics and Government

100. ORIENTATION TO THE STUDY OF POLITICS. An introduction to the department, its faculty and courses, exploring different perspectives of a contemporary political event. (Z grade). (1).

101. INTRODUCTION TO AMERICAN POLITICS. Constitutional principles of U.S. governmental framework. Political participation, electoral processes, political institutions. (3).

300. JUDICIAL PROCESS. Jurisprudence; actors and institutions of legal systems; civil and criminal processes; contemporary socio-legal issues. (3).

303. THE AMERICAN PRESIDENCY. Historical and comparative analysis of the presidency and other chief executive offices; functions, powers, relations with other political institutions. (3).

304. AMERICAN LEGISLATIVE PROCESS. Politics, processes, and structures of U.S. Congress; congressional elections and behavior of individual members of Congress. (3).

305. JUDICIAL BEHAVIOR. An analysis of judicial decision making, its influences and impact in trial and appellate courts in state and federal systems. (3).

306. CONSTITUTIONAL LAW I: SUPREME COURT AND THE CONSTITUTION. Judicial review; interinstitutional relations; federalism; interstate commerce, taxing and spending, contract clauses, substantive due process. (3).

307. CONSTITUTIONAL LAW II: POLITICS OF CIVIL LIBERTIES AND CIVIL RIGHTS. American legal and political freedoms; judicial policy making; criminal justice; civil rights. (Same as AAS 308). (3).

308. VOTING AND POLITICAL PARTICIPATION. Explanations of voter turnout; sociological, psychological, and economic perspectives on voter behavior. Prerequisite: POL 251. (3).

309. PUBLIC OPINION AND POLITICAL PSYCHOLOGY. The formation and structure of political attitudes and mass belief systems; measurement of political opinions; social and psychological influences on opinion. Prerequisite: POL 251. (3).

310. POLITICAL PARTIES AND INTEREST GROUPS. Nature of the organization and operation of political parties and interest groups; elections and political action committees. (3).

311. POLITICAL COMMUNICATION. An examination of American political communication. The role of the media, speechwriters, politicians and the public in developing and transmitting political symbols and rhetoric. (3).

316. STATE AND LOCAL GOVERNMENT AND POLITICS. Role of state governments in the U.S. federal system; structure and functioning of governmental operations. Prerequisite: POL 251. (3).

317. MISSISSIPPI POLITICS. Analysis of contemporary Mississippi politics and government. (3).

318. POLITICS OF THE AMERICAN SOUTH. An analysis of Southern politics that focuses on the region's unique political history, its transformation during the 20th century, and its importance to national politics. (3).

319. MINORITY POLITICS. Studies the place of minorities in American politics. Examination of definitions of minority groups and minority politics; major American minority groups; and issues of conflict between minorities and the majority. Some comparative material also included. (3).

- 320. AFRICAN AMERICAN POLITICS.** Overview of issues in African American politics. Focuses on issues that affect African American political participation. (Same as AAS 320). (3).
- 365. COURT ADMINISTRATION.** Analysis of modern management of trial and appellate courts at state and federal levels. (3).
- 367. POLICY ANALYSIS.** Concepts, processes, methodologies, and issues involved in the application of systematic analysis to public policy. (3).
- 368. ADMINISTRATIVE LAW.** The law of public offices; powers of administrative authorities; conclusiveness of administrative determinations; remedies against administrative action. (3).

Comparative Government and Politics

- 221. INTRODUCTION TO COMPARATIVE POLITICS.** Examination of non-American political systems, their significant political institutions, and their political behavior. (3).
- 321. POLITICS OF LATIN AMERICA.** A comparative survey of Latin American democracies focusing on several key themes: political culture and participation, political groups, government structures and policymaking. (3).
- 322. POLITICS OF WESTERN EUROPE.** Analysis of the political systems and governmental processes of major Western European societies. (3).
- 323. POLITICS OF SUB-SAHARAN AFRICA.** Analysis of the political systems of sub-Saharan Africa and their development from the interaction of African and European social forces. (Same as AAS 315). (3).
- 324. POLITICS OF CHINA.** Analysis of China's political, economic, and social transitions. (3).
- 325. POLITICS OF SOUTHEAST ASIA.** Analysis of current systems of government and politics in Asian countries. (3).
- 326. POLITICS OF RUSSIA.** Basic principles, institutions, practices, and processes. (3).
- 327. POLITICS OF ISRAEL.** Behavioral and structural examination of Israeli politics, including analysis of historical, domestic, and international factors influencing policy decisions. (3).
- 328. POLITICS OF CANADA.** Study of Canadian political institutions and behavior, including constitutional development, political parties, elections and voting, federalism, and international relations. (3).
- 329. TRANSITIONS TO DEMOCRACY.** An analysis of the theories, problems, and cases of transition and consolidation of democracy across the world. Review of theoretical approaches to and problems with the process of democratic transition and consolidation. (3).
- 340. POLITICS OF EAST ASIA.** Analyzes the political institutions, processes, and developments of political systems in East Asia. Specific attention to China, Japan, Republic of Korea, Democratic People's Republic of Korea, and Taiwan, as well as relations among these nations. (3).
- 342. POLITICS OF MEXICO AND CENTRAL AMERICA.** Analysis of the political, economic, and social development in Mexico and the Central American countries. (3).
- 343. COMPARATIVE DEMOCRATIC INSTITUTIONS.** Analysis of the central institutions of democratic governments and their politics. (3).
- 345. POLITICS OF SOUTH AMERICA.** Analysis of political, economic, and social developments in South American countries. (3).
- 346. WOMEN AND WORLD POLITICS.** A comparative analysis of women's political roles in countries around the world. (Same as GST 344). (3).
- 381. POLITICS OF ADVANCED INDUSTRIAL SOCIETIES.** An analysis of major issues and theories concerning advanced industrial societies, i.e., origins and initial institutional accommodations of social cleavages in the 19th century, postwar innovations, and challenges to postwar arrangements. Focuses on Europe, Japan, and United States. (3).
- 382. COMPARATIVE LEGISLATIVE BEHAVIOR.** Comparative study of some of the important structures, functions, and processes of legislatures and legislative-like institutions in both western and non-western societies. (3).
- 383. COMPARATIVE ETHNIC POLITICS.** The course is an examination of ethnic issues in various political settings. The central question revolves around how nations address ethnic problems. Case studies will include European and non-European nations. (3).
- 384. WESTERN SOCIAL MOVEMENTS.** An analysis of theoretical issues concerning the emergence and impact of social movement in the context of the civil rights movement, feminism, ecology, and peace movements. (3).

385. GERMAN POLITICS. An examination of institutions, systems of representation, and public policy in West and East Germany 1945-1990, and in reunited Germany since 1990. (3).

386. EUROPEAN POLITICAL ECONOMY. Political strategies and policies that underlie development of economic prosperity and political stability in Europe. (3).

387. POLITICAL ECONOMY OF EAST ASIA. Analyzes political and economic impacts of development strategies in open economies of East and Southeast Asia. (3).

International Relations

231. INTRODUCTION TO INTERNATIONAL RELATIONS. Factors determining the conduct of international relations; foreign policy objectives and methods of achieving them; power politics versus collective security. (3).

330. CONTEMPORARY INTERNATIONAL PROBLEMS. An analysis of current events as related to foreign policies of major powers; specific international problems; emphasis on interpretation of international trends. (3).

331. INTERNATIONAL ORGANIZATION. Development of international organization; emphasis on the structure and functions of the United Nations; important specialized and regional organizations. Prerequisite: POL 231. (3).

332. ETHNIC CONFLICT AND INTERNATIONAL TERRORISM. A study of the sources, consequences of ethnic conflict and international terrorism. (3).

333. MIDDLE EAST POLITICS. Power and politics in the Middle East-mainly Egypt, Israel, Iran, Saudi Arabia. (3).

334. POLITICS OF THE WORLD ECONOMY. Major issues and events in the politics of modern international economic history. Contending theoretical perspectives and political-economic systems are introduced. Prerequisite: POL 231. (3).

335. IDEOLOGY IN AMERICAN FOREIGN POLICY. Study of major ideological components of American foreign policy in recent years. Includes historical examination of roots of American foreign policy. (3).

336. POLITICAL ECONOMY OF INTERNATIONAL DEVELOPMENT. Introduces major approaches in political economy of development, trade, foreign aid, debt, privatization, and high-technology. Integrates approaches in international relations with problems of political economics. (3).

337. ASIA IN WORLD AFFAIRS. 19th century contacts between Asia and the West; the changing image of Asia; developments following World War II; Asia's challenge to the modern world. (3).

338. FORMULATION OF AMERICAN FOREIGN POLICY. The mechanisms and institutions involved in foreign policy formulation, including the impact and interaction of both governmental and nongovernmental groups. Covers the various modes of influence utilized in foreign policy and the current behavioral literature relevant to the policy-making process. (3).

339. INTERNATIONAL CONFLICT IN THE NUCLEAR AGE. Analysis of constraints and options regarding the use of military force in the nuclear era. Subjects include possible forms of nuclear and limited war, escalation models and coercive bargaining techniques. (3).

341. WAR IN WORLD POLITICS. Issues surrounding international conflict in the causes, conduct, and consequences of war. Prerequisite: POL 231. (3).

342. EXPLORING GLOBAL FUTURES. Examines the connection between values and politics in the international arena. Computer simulation shows how contemporary decisions affect future global scenarios. (3).

344. COMPARATIVE FOREIGN POLICY. Examination of foreign policies in the context of specific nations, including the external and internal factors that shape foreign policy. Prerequisite: POL 231. (3).

362. INTERNATIONAL TELECOMMUNICATIONS POLICY AND ADMINISTRATION. Political, legal, and administrative problems of electronic information management. The domestic and international roles of government in establishing and regulating telecommunications policy for cable systems, satellites, computers, and electronic media. Specific policy activities of public agencies are examined. (3).

Political Analysis

251. INTRODUCTION TO POLITICAL SCIENCE METHODS. Analysis of the basic conceptual tools and quantitative techniques used in political science. (3).

351. FORMAL MODELS OF POLITICS. An introduction to formal models of politics, suggesting assumptions about actors and environments, and deducing consequences from these assumptions, as they apply to democratic politics and processes. (3).

352. QUANTITATIVE METHODS IN POLITICAL SCIENCE. Applications of advanced statistical methods in political research. Prerequisite: POL 251. (3).

Honors, Internships, Colloquia, And Individual Study

380. TOPICS IN POLITICAL SCIENCE ABROAD. Students do departmentally approved course work at a foreign university. May be repeated with permission of the chair of the Department of Political Science. (1-6).

389. INTERNSHIP IN GOVERNMENT. Internship in an approved agency or branch of government; book reports and written reports on internship required. Prerequisite: consent of instructor. (3-6). (Z-grade).

390. HONORS IN POLITICAL SCIENCE. Selected topics and issues. (3).

398. SPECIAL TOPICS IN POLITICAL SCIENCE. Specific topic will vary. (May be repeated once for credit.) (3).

399. READINGS AND RESEARCH IN POLITICAL SCIENCE. (May be repeated once for credit). Prerequisite: Written consent of the instructor. (1-3).

598. SPECIAL TOPICS IN POLITICAL SCIENCE. Study of specialized topics in the discipline. (May be repeated once for credit.) (3).

PRODUCTION-OPERATIONS MANAGEMENT *See Management Information Systems/Production-Operations Management.*

PSYCHOLOGY—PSY

Professor Michael T. Allen, chair • 205 Peabody Building

Professors Gross and Hargrove • Associate Professors Christoff, Lombardo, Mendolia, Sabol, and Sufka • Assistant Professors Gohm, Johnson, Prins, Reysen, Schulenberg, and Wilson

100. ORIENTATION TO THE MAJOR. An introduction to the Department of Psychology, its faculty and courses, with an emphasis on career planning and student development. Recommended for anyone considering psychology as a major. (1). Z grade.

201. GENERAL PSYCHOLOGY. Introduction: individual development, motivation, emotion, motor function, sensory and neural functions, intelligence, learning, perceiving, thinking, social behavior, and personality. (3).

202. ELEMENTARY STATISTICS. Introduction to descriptive and inferential statistics, including measures of central tendency and variability, correlation, t-tests, and analysis of variance. This course is different from Math 115 (Elementary Statistics). Some students may want to take Math 115 before enrolling in PSY 202. (3).

203. SELF MANAGEMENT FOR YOUR PERSONAL LIFE. The course will involve the presentation of information and exercises designed to facilitate the development of sexual and personal decision-making skills. Classes will be student-led and limited to 15 students. Topics will include communication skills, safe sex practices, AIDS/STDs, alcohol, date rape, and abstinence. (1).

211. LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE. Students learn basic research methods used to study brain-behavior relationships. Laboratory exercises include sheep brain dissection, surgical procedures in rats, and the testing of various behavioral systems in response to physiological challenge. After conducting experiments, students write up their findings. Prerequisites: PSY 201 and PSY 202. (3).

212. LABORATORY IN PSYCHOLOGY: EXPERIMENTAL SOCIAL PSYCHOLOGY. Students conduct experiments to study behavior that occurs in the presence or the implied presence of others and report on their findings. Prerequisite: PSY 202 (statistics) or a comparable course. (3).

- 213. LABORATORY IN PSYCHOLOGY.** Students conduct a series of animal conditioning experiments and report on the findings. Prerequisite: PSY 202 (statistics) or a comparable course. (3).
- 214. LABORATORY IN PSYCHOLOGY: COGNITION AND PERCEPTION.** Students perform a number of computer-based experiments and report on their findings. Prerequisite: PSY 202 (statistics) or a comparable course. (3).
- 215. PSYCHOLOGY OF INSTRUCTIONAL TECHNOLOGY.** Theory and practice of individualized instructional systems. Prerequisite: PSY 201 and consent of instructor. (3).
- 301. DEVELOPMENTAL PSYCHOLOGY.** Topically organized survey of all aspects of psychological development from infancy through adulthood. Prerequisite: PSY 201. (3).
- 303. INTERMEDIATE STATISTICAL METHODS FOR PSYCHOLOGY.** Primarily inferential statistics. Bridges the gap between Elementary Statistics and the 500-level courses in psychological statistics. Includes a computer laboratory. Prerequisite: PSY 202 (statistics) or a comparable course. (3).
- 308. INDUSTRIAL PSYCHOLOGY.** Methods of selecting work, adapting the worker to the job and increasing industrial effectiveness; the psychology of advertising; market research. Prerequisite: PSY 202 (statistics) or a comparable course. (3).
- 309. LEARNING.** Introduction to basic laws and theories of learning. Prerequisite: PSY 201. (3).
- 311. ABNORMAL PSYCHOLOGY.** The characteristics, causes, and treatment of abnormal behavior. Prerequisite: PSY 201. (3).
- 313. EXPERIMENTAL ANALYSIS OF BEHAVIOR.** A unified account of human and animal behavior mainly in terms of learning and motivation; introduction to modern behavior theory. Prerequisite: PSY 202 (statistics) and a laboratory course (either PSY 211, PSY 212, PSY 213 or PSY 214). (3).
- 315. PERSONALITY.** Survey of the major theories of personality. Prerequisite: PSY 202 (statistics) and a laboratory course (either PSY 211, PSY 212, PSY 213 or PSY 214). (3).
- 317. TESTS AND MEASUREMENTS.** Various types of psychological tests and their uses; emphasis on group intelligence tests, aptitude tests, personality tests, achievement tests. Prerequisite: PSY 202 (statistics) and a laboratory course (either PSY 211, PSY 212, PSY 213 or PSY 214). (3).
- 319. BRAIN SCIENCE AND BEHAVIOR.** Structures and function of the nervous system as it relates to a variety of behaviors and mental processes such as sensation, movement, sleep, hunger, learning, mental disorder, language, and consciousness. Prerequisite: PSY 201 OR BISC 102 OR BISC 160. (3).
- 320. COGNITIVE PSYCHOLOGY.** A general survey of cognitive psychology emphasizing human perception and attention, human memory, language, and speech perception. Prerequisite: PSY 201. (3).
- 321. SOCIAL PSYCHOLOGY.** The acquisition of social behaviors and their use in group situations. Prerequisite: PSY 201. (3).
- 323. APPLIED BEHAVIOR ANALYSIS.** Introduction to current principles of learning and their application to the analysis of human behavior. Prerequisites: PSY 202 (statistics) and a laboratory course (either PSY 211, PSY 212, PSY 213 or PSY 214). (3).
- 327. PSYCHOLOGY AND LAW.** The interface of psychology and law, including family law, the courts, criminal behavior, and police. Prerequisite: PSY 201. (3).
- 340. MULTICULTURAL PSYCHOLOGY.** An examination of cultural factors in human behavior, with a focus on American ethnic and cultural minorities; includes the changing ethnic profile in the United States; cultural variation in emotional, cognitive, and behavioral expressions; role of culture in service provision, and moderator variables, e.g., racial identity and acculturation. Prerequisite: PSY 201. (3).
- 401. UNDERGRADUATE INTERNSHIP IN PSYCHOLOGY.** Internship in approved work settings under professional supervision. Prerequisites: PSY 202 (statistics), a laboratory course (either PSY 211, PSY 212, PSY 213 or PSY 214), and permission of instructor. (May be taken for a maximum of 6 hours credit). (1-3). (Z grade).
- 405. MINOR RESEARCH PROBLEMS.** Participate in small research projects under direction of a faculty member. Prerequisite: PSY 202 (statistics), a laboratory course (either PSY 211, PSY 212, PSY 213 or PSY 214), and consent of a faculty member. (May be taken twice for credit). (3). (Z grade).
- 410. SURVEY OF MEDICAL PSYCHOLOGY.** The course will describe psychological approaches to medical problems in various organ systems of the body. Prerequisite: PSY 201; PSY 319 (Brain Science) or a comparable course is recommended. (3).
- 411. DRUGS AND BEHAVIOR.** Course covers nervous system functioning, basic principles of pharmacology, and pharmacologic and behavioral effects of psychotherapeutic and abused drugs. Prerequisite: 9 hours of Psychology including PSY 201. (3).

412. SCIENCE OF EMOTION. Survey of major theoretical traditions (e.g., cognitive, evolutionary, developmental, functional, physiological, social constructivist) for studying processes and mechanisms involved in the experience and expression of emotion. Prerequisite: PSY 201, 202 (statistics) and a laboratory course (either PSY 211, PSY 212, PSY 213, or PSY 214) or permission of instructor. (3)

415. INTRODUCTION TO CLINICAL PSYCHOLOGY. An overview of the field of clinical psychology and roles of clinical psychologists. Prerequisite: A laboratory course (either PSY 211, PSY 212, PSY 213 or PSY 214) and PSY 311 (Abnormal Psychology). (3)

419. PSYCHOLOGY OF PARENTING. Techniques of child management and stimulation of children's emotional and intellectual growth. Prerequisite: 201. (3)

420. SPECIAL TOPICS. Independent study of topics of mutual interest to student and professor. Student must find a professor to supervise the study before registering. Prerequisite: 9 hours of psychology and consent of instructor. (May be taken twice for credit.) (3)

425. ADVANCED ABNORMAL PSYCHOLOGY AND LITERATURE. The works of authors with distinct psychiatric illnesses are studied to understand the influence of the disabilities on their lives and works. Prerequisites: PSY 201, 202, 311. (3)

430. SENSATION AND PERCEPTION. Survey of current theory and research in sensation and perception. Emphasis is on visual system. Topics include neurophysiology and neuropsychology of perception; perception of color, form, size, depth, and motion; audition; speech perception. Prerequisites: PSY 201, PSY 202, and one of the following: PSY 211, PSY 212, PSY 213, PSY 214. (3)

451. HISTORY AND SYSTEMS OF PSYCHOLOGY. A survey of the history and philosophies of psychology since its beginning as a union of philosophy and physiology. Prerequisites: PSY 201 and 202. (3)

460. PSYCHOLOGY OF HUMAN SEXUALITY. A survey of behavioral, psychological, and physiological research on human sexuality. Prerequisites: PSY 201, PSY 202, and one of the following: PSY 211, PSY 212, PSY 213, PSY 214. (3)

501, 502. QUANTITATIVE METHODS IN PSYCHOLOGY I, II. Topics treated are descriptive statistics, probability theory, hypothesis testing, linear regression, analysis of variance, experimental design, nonparametric and multivariate techniques, and computer applications. Prerequisite: for 501 is PSY 302; for 502 is PSY 501. (3, 3)

505. CONDITIONING AND LEARNING. The general field of human animal learning including instrumental conditioning, classical conditioning, memory, and transfer. Prerequisite: 12 hours in psychology. (3)

506. HUMAN LEARNING AND COGNITION. Covers perception in the visual and auditory systems, pattern recognition and attention, features of the three major memory systems, the representation of knowledge in memory, the neurology of memory, language, learning and cognitive development, problem solving and decision making, mechanisms of thought, and other related topics. (3)

510. HUMAN PHYSIOLOGICAL RECORDING IN RESEARCH AND PRACTICE. Practical and research applications of physiological recording techniques such as EEG, EMG, and EKG. Familiarity with actual recording procedures during the laboratory sequence. Prerequisite: PSY 528. (3)

519. GROUP DYNAMICS. Factors affecting political and social efficiency. Prerequisite: PSY 321. (3)

523. TESTS AND MEASUREMENTS. Principles of test construction, scoring and interpretation. Prerequisite or corequisite: PSY 501. (3)

526. SOCIAL PSYCHOLOGY. An intensive review of the field of social psychology. Prerequisite: 12 hours of psychology. (3)

528. PHYSIOLOGICAL PSYCHOLOGY. The neuroanatomical and neurochemical basis of behavior. Prerequisite: 12 hours of psychology. (3)

529. ADVANCED DEVELOPMENTAL PSYCHOLOGY. Graduate-level survey of clinically relevant aspects of psychological development from infancy through adulthood. Undergraduates wishing to enroll are advised to consult the instructor. (3)

530. SINGLE SUBJECT AND SMALL GROUP RESEARCH DESIGN. Prerequisite: 12 hours of psychology and 505. (3)

531. SENSATION AND PERCEPTION. A survey of classical psychophysical methods, signal detection theory, and sensory psychophysiology. Prerequisite: 12 hours of psychology. (3)

532. ATTENTION AND CONSCIOUSNESS. The seminar explores the nature and underlying mechanisms of attention and consciousness. Topics include theories of attention and consciousness, attention and duration judgment, philosophical perspective on consciousness, subliminal perception, implicit learning, and animal consciousness. Prerequisite: graduate students in psychology and philosophy or permission of instructor. (3)

541. MENTAL RETARDATION AND DEVELOPMENTAL DISORDERS I. Structural aspects of reduced function including genetic, glandular, neurological, and psychiatric considerations. Prerequisite: 12 hours in psychology. (3).

543. MENTAL RETARDATION AND DEVELOPMENTAL DISORDERS II. Behavioral inadequacies including intellectual, social, motivational, emotional, and learning dysfunctions. Prerequisite: PSY 541. (3).

553. THEORIES OF LEARNING. Theories of Thorndike, Pavlov, Guthrie, Skinner, Hull, and Tolman. Prerequisite: 12 hours in psychology. (3).

555. PSYCHOLOGY COLLOQUIUM. Presentation of current research by students and visiting psychologists. Prerequisite: 12 hours of psychology. (Z grade). (1).

561. CROSS-CULTURAL TRAINING. The course will survey cross-cultural training programs designed to introduce people from one cultural background to ways of interacting effectively in a culture other than their own. (3).

599. CLINICAL STAFFING. Case presentation of clients seen in practicum. Prerequisite: admission to clinical program. (May be repeated for credit). (Z grade). (1).

RADIO AND TELEVISION *See the Department of Journalism.*

READING *See the Department of Curriculum and Instruction.*

RELIGIONS *See the Department of Philosophy and Religion.*

ROTC PROGRAMS *See Aerospace Studies; Military Science; and Naval Science.*

SALLY McDONNELL BARKSDALE HONORS COLLEGE—HON

Associate Professor Douglass Sullivan-Gonzalez, dean • Sally McDonnell Barksdale Honors College

100. PACE SEMINAR. A humanities course that concentrates on building critical thinking, problem solving and self-initiated discovery. For Project PACE members only. (3).

101, 102. FRESHMAN HONORS I, II. Honors core courses. Required of honors graduates. (3, 3).

201. HONORS COLLOQUIUM. Topics will vary according to the needs and wishes of honors students. (May be repeated for credit for a maximum of 6 hours, as long as content is different). (3).

301, 302. HONORS INDIVIDUAL-BASIS STUDIES. Content varies. (May be repeated for credit to a maximum of 6 hours). (1-6, 1-6).

401, 402. SENIOR HONORS RESEARCH. (3, 3).

SECONDARY EDUCATION *See the Department of Curriculum and Instruction.*

SOCIAL SCIENCE *See the College of Liberal Arts section on Departmental Major and Minor Requirements.*

SOCIAL WORK—SW

Professor Carol Boyd, chair • 225 Hume

Associate Professors Allen, Eftink, Moore, O'Dell, O'Quin, and Stafford • Assistant Professor Shackelford • Instructor Williams-Jenkins

233. JUVENILE CORRECTIONS. History and development of corrections for youthful offenders; organization of juvenile courts and related services; emphasis on working with oppressed populations in these systems. (Same as SOC 233). (3).

315. INTRODUCTION TO SOCIAL WORK. An introductory systems approach to the professional and ethical knowledge, value, and skill base necessary for understanding generalist social work and the American social welfare system. Prerequisite: sophomore standing. (3).

316. SOCIAL WELFARE POLICY I. First of a two-part social welfare policy sequence. Review of the history, mission, and philosophy of social welfare, Consideration of major policy areas. Role of policy toward achievement of social justice and optimal health and well being for oppressed populations. Prerequisite: completion of SW 315 with a minimum grade of C. (3).

321. HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I. First of two courses which utilize biological, psychological, social, and cultural perspectives to examine human growth and development across the life span. Covers conception through adolescence. Considers the impact of families, groups, organizations, and communities upon development and behavior. Prerequisite: sophomore standing. (3).

322. HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II. Second of two courses which utilize biological, psychological, social, and cultural perspectives to examine human growth and development across the life span. Covers early through late adulthood. Considers the impact of families, groups, organizations, and communities upon development and behavior. Prerequisites: completion of SW 321 with a minimum grade of C. (3).

325. THE HELPING PROFESSIONAL IN THE HEALTH SETTING. An elective course to study the dynamics of illness, death, and grief, the psychosocial aspects of patient care within the health care system, common health care practices and terminology, and the roles of social workers and other helping professionals within the health care system. Prerequisite: junior standing. (3).

326. GERONTOLOGY: SOCIAL WELFARE ASPECTS. An elective course to study the aging processes and the social and personal adjustments accompanying this stage; examination of implications for social welfare planning and social service provision. Junior standing. (3).

335. SOCIAL WORK PRACTICE I. First in a sequence of three social work practice courses. An introduction to oral and written communication theories and skills utilized in establishing relationships, data gathering, and conducting assessments essential for generalist social work intervention with diverse individual, family, group, organizational, and community systems. Attention to ethical practice. Social work majors only. Prerequisites: completion of SW 315 and 321, each with a minimum grade of C. (3).

402. CHILD WELFARE POLICIES. Organization and components of child welfare services in a diverse society; examination of current problems, trends, and populations at risk. Prerequisite: junior standing. (3).

417. SOCIAL WELFARE POLICY II. Second part of a two-part social welfare policy sequence. Emphasis on the interconnectedness of social welfare policy and social work practice. Examination of the social worker's role in policy formulation. Exploration of current and proposed social welfare legislation, and analysis of social welfare policies. Prerequisite: SW 316 with minimum grade of C. (3).

427. PSYCHOSOCIAL ASPECTS OF LOSS, DEATH, AND GRIEF. This course provides content on psychosocial aspects of loss, death, dying, and bereavement with emphasis on how the dying process relates to adaptive process of living. (3).

428. SOCIAL ASPECTS OF CHILDREN AT RISK. This course will explore the context of child development in family systems exposed to various social and family problems. The class will discuss issues that are risk factors for children. Ideas regarding parenting and social environments that promote healthy, optimal development for children will be discussed. (Same as FCS 428). (3).

436. SOCIAL WORK PRACTICE II. Second in the series of three practice courses. Utilization of the generalist problem solving model for interventions with individuals and families. Particular attention to oppressed populations and ethical practice. May be taken concurrently with SW 437. Social work majors only. Prerequisite: SW 335, with a minimum grade of C, and all lower level graduation requirements. (3).

437. SOCIAL WORK PRACTICE III. Third in the series of three practice courses. Utilization of the generalist problem-solving model for social work with groups, organizations, and communities, with attention to achieving social justice for oppressed populations. Attention to ethical practice. May be taken concurrently with SW 436. Social work majors only. Prerequisite: SW 335, with a minimum grade of C, and all lower-level graduation requirements. (3).

438. SOCIAL WORK PRACTICE IV. Fourth in the series of four practice courses. Utilization of the generalist problem-solving model for social work with organizations and communities, with attention to achieving social justice for oppressed populations. Attention to ethical practice. May be taken concurrently with SW 436 and SW 437. Social work majors only. Prerequisite: SW 335, with a minimum grade of C, and all lower-level graduation requirements. (3).

440. SOCIAL WORK RESEARCH. Research terminology, types and purposes of research, and research design. Role of research in evaluation of social work practice. Formulation and examination of research questions, reaching valid conclusions, reporting results, basic data analysis techniques, quantitative vs. qualitative methods, and ethics in research. Prerequisites: SW 315, 321, each with a minimum grade of C. (3).

450. FIELDS OF SOCIAL WORK. An examination of specific social work professional settings, to assist students in decision making about internship options. To be taken in the semester prior to internship. Social work majors only. Senior standing. (1).

459, 460. DIRECTED STUDY IN SOCIAL WORK. Individual study in specialized areas. Senior social work majors only. Consent of instructor required. (3).

495. SOCIAL WORK INTERNSHIP. Internship to facilitate the integration of curriculum content through supervised experiences with diverse client systems. Internship locations limited to departmentally approved settings in Mississippi and Shelby County, Tennessee. Prerequisites: All other degree requirements must be completed prior to the internship. Approval of social work faculty is required. (9). (Z grade).

496. INTERNSHIP SEMINAR. Integrative seminars designed to foster critical linkages between classroom instruction and field experiences, provide students an opportunity to discuss mutual concerns, and focus on achieving internship objectives. Must be taken concurrently with SW 495. (3).

575. PSYCHOSOCIAL ASPECTS OF AGING. Introduction to gerontology with a foundation in biological, psychosocial, and behavioral aspects of aging; emphasis on current research and experience working with older adults. (3).

SOCIOLOGY AND ANTHROPOLOGY

Professor David A. Swanson, chair • Leavell Hall

Professors Grisham, Johnson, Long, and Swanson • Associate Professors Dellinger, Ethridge, Ford, Kurtz, Lake, and Sisson • Assistant Professors Haenfler, Jackson, Murray, Oh, and Wrobel

Anthropology–ANTH

101. INTRODUCTORY CULTURAL ANTHROPOLOGY.⁷ Anthropology is the holistic study of human life throughout time and across the world. This course focuses on the cultural characteristics of human groups that are examined through ethnology, linguistic anthropology, and related subfields. (3).

102. INTRODUCTORY ARCHAEOLOGY AND BIOLOGICAL ANTHROPOLOGY. This course provides a broad overview of the methods and concepts used by archaeologists and bioanthropologists in studying human evolution and explores the development of cultural and biological variation among human groups over time. (3).

103. TOPICS IN ANTHROPOLOGY. Selected topics in anthropology. Content varies. (May be repeated for credit). (3).

301. HISTORY OF CULTURE. Origins of culture traced by means of archaeological evidence and presented to show the continuity of social life from basic human beginnings to present-day civilization. (Same as G ST 302). (3).

⁷ Anthropology 101 and 102 may be taken in either sequence.

- 302. ANTHROPOLOGICAL FILMS.** This course examines the use of films in anthropology. (3).
- 303. CULTURAL ANTHROPOLOGY.** In this course, students will examine the fundamental principles, concepts, and methods used in cultural anthropology and ethnographic work. (3).
- 304. BIOLOGICAL ANTHROPOLOGY.** The course draws on data from studies of primate behavior, human paleontology, and population genetics in order to explore the course of human evolution and the nature of biological variation in modern humans. (3).
- 305. ARCHAEOLOGY.** Archaeology is the subfield of anthropology that studies people through the recovery and analysis of their material and physical remains. This course outlines the history of archaeology, its methods, and contributions to understanding humankind. (3).
- 306. ARCHAEOLOGY OF THE ANCIENT CELTS.** This course introduces students to the archaeological and anthropological study of ancient Celtic populations living in Central and Western Europe from 1000 B.C. to A.D. 500 and examines their cultural impact on the western world. (3).
- 307. PEOPLES OF AFRICA.** This course examines the peoples of modern Sub-Saharan Africa, including patterns of African religions, the arts, politics, economics, and societies. (Same as AAS 307). (3).
- 308. ARCHAEOLOGY OF DEATH AND BURIAL.** Using both ethnographic and archaeological sources, this course focuses on the way in which archaeological data from mortuary practices can be used to answer questions about ancient social organizations. (3).
- 309. INDIANS OF MISSISSIPPI AND THE SOUTH.** Review of the archaeological and ethnographical prehistory of such groups as the Choctaw, Chickasaw, and the Natchez. (3).
- 310. PEOPLES OF THE PACIFIC.** Comparative study of the island cultures of the Pacific, including Australia, from their settlement to modern times; their political and strategic significance. (3).
- 313. INTRODUCTION TO LINGUISTIC SCIENCE.** The study of human language. (Same as ENGL 313, LING 313, and MLLL 313). (3).
- 315. AN INTRODUCTION TO LATIN AMERICAN STUDIES I.** (This course may not be used to fulfill the language requirement). (Same as LAS 315 and SPAN 315). (3).
- 316. INTRODUCTION TO LATIN AMERICAN STUDIES II.** (This course may not be used to fulfill the language requirement). (Same as LAS 316 and SPAN 316). (3).
- 317. INDIANS ON THE SOUTHERN FRONTIER.** Examines the place of Native Americans in the South during the frontier era (A.D. 1500-1840), focusing on the changes in Native American life once they became incorporated into the larger world as a result of European colonization. (3).
- 319. ENVIRONMENTAL HISTORY OF THE SOUTH.** Explores the changes in the Southern environment from the prehistoric era to the modern era, focusing on issues of human/environment interaction, changing patterns of land use, and the subsequent changes in the environment. (3).
- 323. INDIANS OF NORTH AMERICA.** Representative cultures and culture areas of North America; their relationships and differences. (3).
- 325. INDIANS OF MIDDLE AMERICA.** The course will survey the contemporary Native American populations of Mexico and northern Central America with an emphasis on the Maya, Mixtec, and Nahuatl peoples. (3).
- 326. ARCHAEOLOGY OF MAYA CIVILIZATION.** The origins and prehistory of Maya society; classic Maya civilization, its art, writing, and social organization. (3).
- 327. INDIANS OF SOUTH AMERICA.** Representative cultures and culture areas of South America; their relationships and differences; the Inca and other ancient civilizations of the Andes. (3).
- 329. ARCHAEOLOGY AND ETHNOHISTORY OF AZTEC EMPIRE.** The archaeology and ethnohistory of the Aztec Empire and contemporary societies in the central highlands of Mexico. (3).
- 333. PRE-COLUMBIAN ARTS.** Interdisciplinary approach to the history of the arts of middle America from 1500 B.C. to the present, covering Olmec, Maya, Mixtec, and Aztec civilizations. (Same as ARHI 333). (3).
- 334. INTRODUCTION TO FIELD WORK TECHNIQUES.** Examination of the theory, practice, and tradition of documentary field research, including the use of photography, film and video, and tape recorders. Special emphasis on documentary study of the American South. (Same as SST 334, SOC 334, and ART 334). (3).
- 335. ARCHAEOLOGICAL FIELD SESSION.** Intensive training in archaeological survey and excavation techniques and analysis of archaeological materials. (second summer session). Prerequisite: consent of instructor. (6).

337. ANTHROPOLOGY OF BLUES CULTURE. This course examines the blues in all its myriad social and cultural roles and contexts, using the anthropological models and approaches of the oral and musical arts, linguistics, ethnohistory, ethnography, religion and ritual analysis among others. (Same as AAS 337). (3).

341. FRAUDS, MYTHS, AND MYSTERIES. Did Atlantis exist? Did ancient astronauts visit the earth and introduce advanced technology? Topics such as these are investigated, comparing explanations offered by the pseudoscientific approach to those advanced by the scientific methods employed by archaeologists. (3).

351. TOPICS IN LATIN AMERICAN STUDIES. Content varies. (May be repeated for credit). (Same as ANTH 351, LAS 351, and SPAN 351). (3).

353. LANGUAGE AND CULTURE. Interrelations between language, thought, and culture; role of language in cognition; practical studies. (Same as LING 353). (3).

404.* SOUTHERN FOLKLORE. History and contemporary role of folk culture in the South as shown in ballads, folk tales, religion, and folk arts and crafts. (Same as S ST 404). (3).

409. ANTHROPOLOGICAL THEORY. The course will provide a historical overview of the major theoretical trends in anthropology. (3).

504. HUMAN OSTEOLOGY. This laboratory-based seminar focuses on teaching students methods of identification and analysis of human bones from archaeological sites. (3).

506. METHODS IN ETHNOHISTORY. The course examines the cross-disciplinary concepts and methods used to reconstruct the past of people who left little or no written record, such as the concept of "the other," the dimensions of history and anthropology, archaeological evidence, documentary evidence, oral traditions, and native autohistory. (3).

507. THE ARCHAEOLOGY OF LANDSCAPE. This course is an exploration of the economic, social, political, and ideological dimensions of natural and cultural landscapes. Students will read and discuss approaches from critical geography, social theory, anthropology, archaeology, and related disciplines. (3).

508. SHATTERZONE: THE CONSEQUENCES OF CONTACT. This course examines the consequences of contact on the native inhabitants of the southeastern United States and the subsequent social and cultural transformations that followed. (3).

511, 512. CROSS-CULTURAL STUDIES IN ETHNOGRAPHY I, II. Comparative study of the culture areas of the world, emphasizing the effects of ecology in the differential development of culture. Prerequisite: written consent of the instructor. (3, 3).

541. INDIVIDUAL STUDY PROJECT. Prerequisite: consent of instructor. (3).

571. LABORATORY METHODS IN ANTHROPOLOGY.⁸ An overview of the analytical techniques of archaeology, emphasizing their development, application, and literature. (1-6).

572. LABORATORY METHODS IN ANTHROPOLOGY: QUANTITATIVE TECHNIQUES. An examination of the theory and techniques of quantitative analysis in anthropology with particular emphasis on practical application. (3).

595. SEMINAR IN LINGUISTICS. (Same as ENGL 595 and LING 595). (3).

* Course is taught infrequently.

⁸ Not more than 6 hours of laboratory courses and field courses may be used for the major.

Geography–GEOG

101. PRINCIPLES OF GEOGRAPHY I. An examination of geographic factors that influence cultural and economic diversity. (3).

Sociology–SOC

101. INTRODUCTORY SOCIOLOGY I. Concepts and methods necessary for studying society. (3).

102. INTRODUCTORY SOCIOLOGY II. Analysis of major social institutions and social trends. Prerequisite: 101. (3).

301. THE FAMILY. The American family as an institution and a group of interacting persons; the nature and problems of courtship, husband-wife, and parent-child relationships. Prerequisite: SOC 101, or junior or senior standing. (Same as G ST 303). (3).

303. THE SOCIOLOGY OF DEATH AND DYING. Definitions and taxonomies of death. Changing attitudes and practices toward and locations for death. Death as an "official," structural, interpersonal, and private event. Passing through "passing on": stages in and the organization of death. Death and identity: physical, psychological, and social autopsies. (3).

307. URBAN SOCIOLOGY. The city as the nucleus of modern industrial society; its institutions, populations, ecology, and problems. Prerequisite: SOC 101. (3).

311. SOCIAL PROBLEMS. The concept of social problems as a moral construct. Theoretical approaches to identifying social problems. Analysis of some currently defined major problems of U.S. society (e.g., environmental degradation, war and militarism, violence and crime), arguments for remediation, approaches to policy. Prerequisite: SOC 101. (3).

313. AMERICAN SOCIAL ORGANIZATION. The dynamics of American institutional development (e.g., the family, religion, economy, polity) with a focus on the processes of institutional change from their historical roots in Europe to social forms envisioned in the foreseeable future. (3).

315. LEISURE AND POPULAR CULTURE. This course will survey contemporary theories of popular culture and provide critical analysis of various aspects of popular culture such as music, television, fast food, fashion, theme parks, advertising, malls, tourism, recreation, shopping, and the Internet. (3).

317. THE SOCIOLOGY OF LITERATURE. An analysis of the organization, production, distribution, labeling, and consumption of literature as art. Topics include: (1) types of literature; (2) audiences; (3) the culture and commerce of publishing; (4) socialization of artists; and (5) criticism. (3).

321. SCIENCE, TECHNOLOGY AND SOCIETY. An examination of the nature of relationships that exist between the development of a civilization and science as a concept and as a method, combined with technology as a series of engineering discoveries and inventions. (3).

323. OCCUPATIONS AND PROFESSIONS. Selected occupational roles ranging from unskilled labor through the professions; requirements, rewards, and social adjustments from training to retirement. Prerequisite: SOC 101. (3).

325. SOCIOLOGY OF GENDER. Examines the social and cultural construction of gender differences in contemporary U.S. society, focusing on the social history of gender roles and gender inequality in current cultural and institutional practices. Prerequisite: SOC 101. (3).

329. IDENTITIES, INTERACTION, AND SOCIAL BEHAVIOR. In this course, students will examine individual identity and social life: what defines who we are, how we live, and how we participate in society. This course will analyze personal styles and our attitudes toward our bodies, politics, and global society. Prerequisite: SOC 101. (3).

333. JUVENILE DELINQUENCY. Causative factors in home, school, and community; extent of the problem; methods of prevention and treatment. Prerequisite: SOC 101. (3).

334. INTRODUCTION TO FIELD WORK TECHNIQUES. Examination of the theory, practice, and tradition of documentary field research, including the use of photography, film and video, and tape recorders. Special emphasis on documentary study of the American South. (Same as SST 334, ANTH 334, and ART 334). (3).

335. THE SOCIOLOGY OF FOOD. An examination of the socio-cultural, economic, and political aspects of food production, distribution, and consumption. Topics include group identities and food choices, the role of food in family activities, food in the media, food fads, and food as a manufactured product. (3).

345. POPULATION TRENDS AND PROBLEMS. Population distribution, composition, growth, migration, vital processes, and problems. Prerequisite: SOC 101. (3).

349. APPLIED DEMOGRAPHY. Essentials of demography (data sources, population composition, structure, change, and distribution) and their application to the needs of government and business. (3).

351. SOCIAL CHANGE. Nature of theories of social change; causes and types of social change; the social effects of invention in the modern world and the adjustments of contemporary social institutions to technological change. Prerequisite: SOC 101 or junior or senior standing. (3).

353. SOCIOLOGY OF INTERNATIONAL DEVELOPMENT. Examines the central social scientific theories regarding the economic, political, and social development of nations. Focus on the evaluation of different approaches to international development in theory and practice. Prerequisite: SOC 101 or consent of instructor. (3).

359. SOCIOLOGY OF GLOBALIZATION. Examines the causes and consequences of globalization from an interdisciplinary perspective. Focus on the evolution of the global economy, the formation of international political structures, and the emergence of global culture. Prerequisite: SOC 101 or consent of instructor. (3).

- 361. THE SOCIOLOGY OF EDUCATION.** The school as a social system; function and role of education in contemporary society; major trends. Prerequisite: SOC 101 or junior or senior standing. (3).
- 365. METHODS OF SOCIAL RESEARCH.** An introduction to social science research. Topics include conceptualization and research design, sampling, measurement, data collection and analysis, and the logic of scientific inference within one or more of the research techniques used by sociologists (survey research, field research, historical and comparative research, content analysis, etc.). Prerequisite: SOC 101. (3).
- 401. ADVANCED GENERAL SOCIOLOGY.** An integrated survey of sociological theory and method (focused on a substantive area of the discipline). Prerequisite: senior standing, major or minor in sociology. (3).
- 405. RESEARCH PRACTICUM.** Practical research experience through the development of social research designs, data collection and analysis. Prerequisite: senior major. (3).
- 409. THE SOCIOLOGY OF KNOWLEDGE.** Relationships between the origin, nature, methods, and limits of human knowledge and the character and structure of society. Prerequisite: SOC 101. (3).
- 413. RACE AND ETHNICITY.** Economic, political, cultural, and historical dimensions of contemporary racial and ethnic relations in both U.S. and international contexts. Prerequisite: SOC 101. (Same as AAS 413). (3).
- 427. SOCIAL STRATIFICATION.** Theories of stratification, class, social status, gender, and conceptions of power. Empirical findings on the distribution of wealth and income in the United States, their concentration, income disparities for women and minorities, poverty and upward mobility. Federal tax policies and spending priorities as they affect life chances. Prerequisite: SOC 101. (3).
- 431. CRIMINOLOGY.** Crime and delinquency; their causes, prevention, and treatment; nature, types, and extent of crime; preventive and correctional programs. Prerequisite: SOC 101 or junior or senior standing. (3).
- 451. TOPICS IN SOCIOLOGY.** Content varies. (May be repeated for credit). (3).
- 466. POLITICAL SOCIOLOGY.** A sociological examination of power, politics, and ideas. An emphasis on theories of power, processes of political influence, the legitimization of authority and inequality, the ideologies of movements for social change, mass media, and public opinion. Prerequisite: SOC 101. (3).
- 468. SOCIOLOGICAL THEORY.** An introduction to the ideas of 19th- and 20th-century sociologists such as Marx, Weber, Durkheim, and Mead, and the orientations of major schools of contemporary sociological theory (functionalism, symbolic interaction, etc.). Prerequisite: SOC 101. (3).
- 501. STATISTICS.** Introduction to descriptive and sampling statistics; emphasis on measures of central tendency, dispersion, linear correlation, and parametric tests of significance. (3).
- 502. SOCIAL RESEARCH METHODS.** In this course, students will critically analyze the assumptions, strengths, and limitations of different research methods in order to develop a researchable sociological question, write a research proposal, and carry out an actual research project. Prerequisite: SOC 501. (3).
- 525. CURRENT DEBATES IN GENDER.** Examines the social and cultural construction of gender differences in contemporary U.S. society, focusing on the social history of gender roles and gender inequality in current cultural and institutional practices. Graduate focus on theoretical explanations of gender inequality.
- 531. LECTURES IN COMMUNITY ORGANIZATION.** Theoretical and pragmatic aspects of community problems and development. (3).
- 545. SEMINAR IN POPULATION STUDIES.** Population distribution, composition, growth, migration, vital processes, and problems. (3).
- 551. INDIVIDUAL STUDY PROJECT.** Prerequisite: written consent of instructor. (3).
- 561. SEMINAR IN INTRODUCTORY SOCIOLOGY.** Subject matter in introductory sociology; its relationship to sociology as a scientific discipline. (3).
- 599. HEALTH CARE IN CONTEMPORARY SOCIETY.** Development, current organization, and financing of the contemporary health-care system in the United States from a comparative perspective. Specific topics include provider socialization, provider-consumer interaction, health care as an industry, and the health-care system of the future. (Same as ANTH 599 and PHAD 599). (3).

SOUTHERN STUDIES—S ST

Professor Charles Reagan Wilson, director, Center for the Study of Southern Culture; Barnard Observatory

Associate Professor Kathryn McKee, undergraduate adviser; 5 Bondurant

Professors Eagles, Fisher, Harrington, Kartiganer, Ownby, and M. Williams • Associate Professors Bercaw, Dewey, Ethridge, Ford, Grisham, Gussow, Kullman, Long, McKee, Namorato, Payne, and Steel • Assistant Professors Crouther, Moen, Watson, and Wharton

101. INTRODUCTION TO SOUTHERN STUDIES I. Defines the Southern region by studying its people, environment, and culture. (3).

102. INTRODUCTION TO SOUTHERN STUDIES II. The development of the Southern region, with emphasis on the economy, social structure, politics, and arts. (3).

304. INTRODUCTION TO FIELD WORK TECHNIQUES. Examination of the theory, practice, and tradition of documentary field research, including the use of photography, film and video, and tape recorders. Special emphasis on documentary study of the American South. (Same as ANTH 334, SOC 334, ART 334). (3).

303. WOMEN IN THE SOUTH. (Same as HIS 336 and ENGL 310). (3).

401. SOUTHERN STUDIES SEMINAR: SOCIETY. An interdisciplinary seminar that examines the South through a close study of social groups, social structures, and social forces. Prerequisite: S ST 101 and S ST 102. (3).

402. SOUTHERN STUDIES SEMINAR: CULTURE. An interdisciplinary seminar that explores the South's past and the contemporary era, focusing on the literature, music, folklore, art and architecture, religion, and other cultural forms that have been especially associated with the region. Prerequisite: S ST 401. (3).

406. SOUTHERN LITERATURE AND THE ORAL TRADITION. Sermons, folk tales, ballads, blues, and other oral forms in works of writers such as A.B. Longstreet, Mark Twain, William Faulkner, Richard Wright, Eudora Welty, and Ernest Gaines. (3).

534. STUDIES IN DOCUMENTARY FIELD WORK. Interdisciplinary study of the theory, practice, and tradition of documentary field research through readings, photography, films and video tapes, audio recordings, and field notes. (Same as ANTH 534, ART 534). (3).

598. SPECIAL TOPICS. Interdisciplinary study of specialized topics in Southern culture. May be repeated once if topic varies. (3).

The Southern Studies Program also includes the following courses: AAS 201, 202, 306, 310, 325, 326, 329, 337, 420, 504, 593; ANTH 309, 334, 337, 404; ARHI 338, 348, 349, 350, 398; ECON 329, 422; ENGL 306, 312, 368, 422 (Tennessee Williams, Richard Wright), 466, 568, 569, 593, HIS 307, 308, 330, 331, 332, 333, 334, 335, 336, 337; MUS 317, 318, 321; POL 312, 513; REL 303, 503; SOC 315, 334, 345, 351, 413; THEA 521.

SPANISH *See the Department of Modern Languages.*

SPECIAL EDUCATION *See the Department of Curriculum and Instruction.*

SPEECH COMMUNICATION—SPCH

Associate Professor Robert Haws, interim director of the Lott Leadership Institute • Vardaman Hall

102. FUNDAMENTALS OF PUBLIC SPEAKING. Fundamentals of organizing, preparing, and delivering speeches in a variety of public forums. (3).

105. BUSINESS AND PROFESSIONAL SPEECH. Preparation of the speech outline, frequent performances in business situations requiring effective communicative practices. (For students in business, engineering, court reporting, and pharmacy). (3).

107, 108; 207, 208; 307, 308; 407, 408. FORENSICS I-VIII. Active participation in intercollegiate forensic and debate tournaments. Only 4 hours credit can be counted toward a degree in the College of Liberal Arts. (1, 1, 1, 1, 1, 1, 1, 1).

314. INTERCOLLEGIATE DEBATING. (3).

SPEECH PATHOLOGY *See the Department of Communicative Disorders.*

STUDENT TEACHING *See the Department of Curriculum and Instruction.*

TELECOMMUNICATIONS—TC

Professor John N. Daigle, chair • 20 Anderson Hall

Assistant Professors Cao and Matalgah

201. INTRODUCTION TO TELECOMMUNICATIONS. Interdisciplinary analysis of technological developments and regulatory, political, financial, social, and other forces influencing electronic information management. (3).

210. VOICE TELECOMMUNICATIONS. Evolution of the switched network; telephone, PBX, and other customer premise equipment; carrier transmission and switching facilities; interoffice connection, signal methods and traffic problems. Prerequisite: 201 or consent of instructor. (3).

220. WIRELESS COMMUNICATIONS. Emphasizes the concepts of wireless communications, especially the new personal communications system (PCS), but also including microwave links, satellites, and cellular radiotelephony. System parameters such as channel capacity, modulation, and handoff are covered. Prerequisite: TC 201. (3).

330. INTERNSHIP IN TELECOMMUNICATIONS. Optional work opportunity for telecommunications students. Offered only in the summer between the junior and senior years. Provides a minimum of eight weeks of supervised work experience in telecommunications. (Z grade). (3).

403. TELECOMMUNICATIONS NETWORKS. A complete discussion of the concepts, terminology, functions, theories, and algorithms underlying network design. Included are analysis of requirements, sizing, routing, network modeling, and selection of final design. Prerequisite: TC 201. (3).

405. TELECOMMUNICATIONS MANAGEMENT. This course will explore the management of the telecommunications function. Primary emphasis will be on organizing for the telecommunications function, strategic planning, operational planning, functional operations, and the measurement and control of telecommunications effectiveness. Prerequisite: TC 201. (3).

409. CURRENT ISSUES IN TELECOMMUNICATIONS. A seminar which focuses on issues of current interest in telecommunications. Students are required to submit a term project. Off-campus experts will be guest lecturers. Prerequisite: TC 201. (3).

415. TELECOMMUNICATIONS LABORATORY. Multiplexing techniques; modulation methods; sampling; electronic switching. Prerequisite: ENGR 360, 361. (1).

431. SATELLITE TELECOMMUNICATIONS. Survey of recent developments in the use of satellites in corporate communications, the creation of alternate broadcast networks, videoconferencing, telemedicine, and education. (3).

432. LOCAL AREA NETWORKS. A study of wideband telecommunications systems available to connect terminals, facsimile machine, printers, computers, etc., to a common transmission medium within an organization. Prerequisite: CSCI 361. (3).

433. OPTICAL FIBER TELECOMMUNICATIONS. Address the engineering and cost benefits of optical fiber systems. Discuss and define the important engineering parameters. Limitations and capabilities will be discussed. Comparison to other communications systems will be made. (3).

491. SPECIAL TOPICS IN TELECOMMUNICATIONS. A concentrated study of a specific instructor-approved telecommunications topic. Topics are mobile communications, traffic engineering, information theory, synchronous digital networks, and advanced fiber-based systems. Students can earn up to 6 hours toward telecommunications degree requirements. (3).

THEATRE ARTS

Professor Scott McCoy, chair • 110 Isom Hall

Professor Shollenberger • Associate Professors Edwards, Foregger, Mizenko, and Pulliam • Assistant Professors Cantu and Evans

Speech–SPCH

110. BASIC VOICE AND DICTION. Study of the physical bases of speech; concentrated work for the individual improvement of voice, articulation, pronunciation, and expressiveness. (Nonmajors only). (3).

Theatre–THEA

110, 111. FRESHMAN PERFORMANCE STUDIES I, II. Concentrated studio training emphasizing improvisation, introduction to Stanislavski technique, individual attention to basic acting process. Prerequisite: theatre arts majors only. (2, 2).

163. INTRODUCTION TO MUSICAL THEATRE PERFORMANCE. Beginning studies in the styles and genres of British and American musical theatre. Prerequisite: theatre arts majors only. (2).

164. MUSICAL THEATRE PRACTICUM I. Voice and movement studies for the musical theatre student. Prerequisite: theatre arts majors only. (1).

168. FUNDAMENTALS OF VOICE AND DICTION. Study of the physical bases of speech; exercises to improve breathing, physical alignment, use of resonators. Prerequisite: theatre arts majors only. (2).

169. VOICE AND MOVEMENT. Vocal production work combined with movement techniques emphasizing mind/body unity, sensory awareness, and improved nonverbal communication. Prerequisite: THEA 168. (2).

171. RENDERING FOR THE THEATRE. Introduction to and development of rendering skills and techniques used by designers in the theatre. (3).

172. THREE-DIMENSIONAL DESIGN FOR THE THEATRE. Introduction to skills and techniques used in the manipulation of form and space for theatrical design. Prerequisite: theatre arts majors only. (3).

185, 186. STAGE MANAGEMENT PRACTICUM I, II. Work as assistant stage manager for a University theatre production. Prerequisite: theatre arts majors only. (1,1)

192. PRODUCTION STUDIES I. Supervised projects in fundamental aspects of technical production. Prerequisite: theatre arts major. (Z grade). (2).

201. APPRECIATION OF THE THEATRE. Appreciation of the theatre as a performance art; developing perceptive audience standards through demonstrations of the unique characteristics of theatre. (For nonmajors only). (3).

203. DRAMA IN FILM. A study of film acting and production techniques in relation to various forms of drama considered through viewing and discussion of major dramatic films. (3).

204. COMEDY IN FILM. A study of film acting and production techniques in various forms of comedy considered through viewing and discussion of major comic films. (3).

210, 211. SOPHOMORE PERFORMANCE STUDIES. Concentrated studio work involving voice and movement training, script analysis, role preparation techniques, and character development. Prerequisites: THEA 110, 111, and satisfactory completion of freshman juried recital. (4, 4).

- 220. BUSINESS AND EMPLOYMENT PRACTICES IN PROFESSIONAL THEATRE.** Techniques for audition/portfolio preparation and presentation, interviewing, networking, how to utilize agents and managers, characteristics and advantages of unions in professional theatre. Prerequisite: theatre arts majors only. (2).
- 230. MOVEMENT FOR THE ACTOR I.** Laban principles of effort as applied to stage movement, monologues, and mask work. Prerequisite: theatre arts majors only. (2).
- 231. MOVEMENT FOR THE ACTOR II.** Continued exploration of Laban principles; exposure to Restoration and Elizabethan movement and manners. Prerequisite: THEA 230. (2).
- 235. THE ALEXANDER TECHNIQUE.** Application of the Alexander Technique to the creative process and artistic execution. (3).
- 240. MAKEUP.** Media and techniques in application of makeup for stage and television. (3).
- 242. COMMUNICATION FOR DESIGNERS.** Discussions and practical exercises to increase the theatrical designer's ability to communicate effectively with directors, performers, producers, and the various shops executing their designs. Prerequisite: theatre arts majors only. (3).
- 246. COSTUME CRAFTS.** Study of costume craft techniques and products used to satisfy special costume needs, including mask-making, fabric painting and dyeing, and basic millinery skills. Prerequisites: THEA 171, 172, 272. (3).
- 250. INTRODUCTION TO FILM/VIDEO PRODUCTION.** Basic principles of lighting, sound and camera usage for film and television in both studio and location applications. (3).
- 251. INTRODUCTION TO FILM DIRECTING.** Basic principles of camera composition, storyboarding and shot management for film production. Prerequisite: THEA 250. (3).
- 260. FUNDAMENTALS OF ACTING.** Basic techniques of acting for the modern stage. (For nonmajors only). (3).
- 263. MASK AND MOVEMENT TECHNIQUES.** Studies in mask and movement techniques for the actor. Prerequisite: theatre arts majors only. (2).
- 264. MUSICAL THEATRE PRACTICUM II.** Voice and movement studies for the musical theatre student. May be repeated once for credit. Prerequisite: theatre arts majors only. (1).
- 265. BASIC ACTING TECHNIQUES.** Studies in essential performance skills. Prerequisite: theatre arts majors only. (3).
- 268. SPEECH FOR THE STAGE.** An introduction to applying phonetics as a tool for analyzing and improving the clarity of speech on and off stage. Prerequisite: theatre arts majors only. (2).
- 269. ACTING WITH DIALECTS.** Concentrated study and application of foreign accents and dialects of English often required in dramatic texts. Prerequisite: theatre arts majors only. (2).
- 271. INTRODUCTION TO STAGECRAFT.** Introduction to standard practices and terminology of stagecraft. Prerequisite: theatre arts majors only. (3).
- 272. INTRODUCTION TO COSTUMES FOR THE STAGE.** An introduction to various aspects of costuming, such as construction, crafts, crew work, shop duties. Prerequisite: theatre arts majors only. (3).
- 273. COSTUME CONSTRUCTION.** Practical experience constructing garments for use on stage, covering both contemporary and period clothing. Prerequisite: theatre arts majors only. (3).
- 274. THEATRE DESIGN GRAPHICS.** Introduction to techniques of mechanical drawing, perspective, figure drawing, and use of color for the theatre arts. Prerequisite: theatre arts majors only. (3).
- 275. INTRODUCTION TO SCENE PAINTING.** Introduction to principles, techniques, and media for scene painting in the theatre. Prerequisite: theatre arts majors only. (3).
- 276. FUNDAMENTALS OF COMPUTER-AIDED DESIGN FOR THEATRE.** Introduction to computer-aided design principles and software for theatre applications. Prerequisite: theatre arts majors only. (3).
- 277. INTRODUCTION TO PATTERNMAKING.** An introduction to drafting patterns using both flat pattern and draping techniques. Prerequisite: theatre arts majors only. (3).
- 278, 279, 379, 477. THEATRE PRODUCTION TECHNIQUES I-IV.** Production practicum for theatre performances using traditional and advanced methods and technology. Prerequisite: theatre arts majors only. (3 each).
- 285. STAGE MANAGEMENT TECHNIQUES I.** Familiarity with all aspects of technical theatre relevant to stage managing. Prerequisite: theatre arts majors only.
- 286. STAGE MANAGEMENT TECHNIQUES II.** Familiarity with all aspects of stage management work in audition, rehearsal, and performance situations. Prerequisite: theatre arts majors only.

- 291. PRODUCTION STUDIES II.** Supervised projects in fundamental aspects of design and technical production. Formal critique of projects by design faculty. Prerequisite: theatre arts major. (3).
- 292. PRODUCTION STUDIES III.** Supervised projects in fundamental aspects of design and technical production. Formal critique of projects by design faculty. Prerequisite: theatre arts major. (3).
- 301. SCENE STUDIES I.** Concentrated scene work drawn from classic and contemporary dramatic plays. Prerequisite: theatre arts majors only. (3).
- 302. SCENE STUDIES II.** Concentrated scene work drawn from classic and contemporary comic plays. Prerequisite: theatre arts majors only. (3).
- 307. ACTING FOR FILM AND TELEVISION I.** Concentrated study of essential techniques and terminology of film and television acting. (3).
- 308. ACTING FOR FILM AND TELEVISION II.** Scene study using one- and two-camera formats. (3).
- 310, 311. JUNIOR PERFORMANCE STUDIES I, II.** Concentrated studio work involving voice and movement training, character analysis, and scene work drawn from contemporary play. Prerequisites: THEA 210, 211. (4, 4).
- 320. THEORY AND PRACTICE OF DRAMA.** Examination of major dramatic theories and styles as they relate to both the practice and the literature of theatre. Prerequisite: theatre arts majors only. (3).
- 321. THEATRE HISTORY I.** Examination of the major developments in theatre from the classical Greek period through the Elizabethan period with specific emphasis on the relationship between theatre and the broader culture of each historical period. (3).
- 322. THEATRE HISTORY II.** Examination of major developments in theatre from the 17th century to the present with specific emphasis on the relationship between theatre and the broader culture of each historical period. (3).
- 326. DRAMATIC LITERATURE I.** Study and analysis of dramatic literature from the Greeks to the Romantics. (3).
- 327. DRAMATIC LITERATURE II.** Study and analysis of dramatic literature from the Romantics to the present. (3).
- 330. STAGE COMBAT I.** Principles of unarmed stage combat, including introduction to martial arts. (2).
- 331. STAGE COMBAT II.** Principles of weapons combat for the stage, including broadsword, rapier and dagger, and quarterstaff. (2).
- 335. THE ALEXANDER TECHNIQUE.** Application of the Alexander movement technique to the performance process. (2).
- 340. COLOR THEORY FOR DESIGNERS.** Study of color as it applies to conceptualization and affects theatrical design. Prerequisite: theatre arts majors only. (3).
- 341. PROPERTY DESIGN AND CONSTRUCTION.** Survey and study of property design and construction techniques typically used by working artisans. Prerequisite: theatre arts majors only. (3).
- 350. EDITING TECHNIQUES.** Exploration of single track and A/B editing techniques. Prerequisite: theatre arts majors only. (3).
- 351. FILM DIRECTING.** Practical experience with directing dramatic material. Final project will be a completed short film. Prerequisite: THEA 350. (3).
- 359. TELEVISION PRODUCTION.** Experience in creating documentary and other materials for television. (3).
- 364. MUSICAL THEATRE PRACTICUM III.** Voice and movement studies for the musical theatre student. May be repeated once for credit. Prerequisite: theatre arts majors only. (1).
- 368. ADVANCED VOICE AND SPEECH I.** Exploration of breath management, vocal dynamics, and articulation techniques to achieve flexible, natural, and evocative verbal communication in performance. Prerequisite: theatre arts majors only. (1).
- 370. INTRODUCTION TO SCENIC DESIGN.** Introduction to scenic design for the theatre with emphasis on script analysis, elevations, and techniques of rendering. Prerequisite: theatre arts majors only. (3).
- 371. PERIOD PATTERNMAKING.** Making patterns for period garments using flat pattern and draping techniques. Prerequisite: theatre arts majors only. (3).

- 372. INTRODUCTION TO LIGHTING DESIGN.** Introduction to lighting design with emphasis on script analysis, the functions of light for the production and the development of the light plot. Prerequisite: theatre arts majors only. (3).
- 374. INTRODUCTION TO THE HISTORY OF DRESS AND DÉCOR I.** Survey of period styles in dress and décor as relevant to theatre arts from ancient Egypt to 1600. (3).
- 375. INTRODUCTION TO COSTUME DESIGN.** Introduction to costume design for the theatre with emphasis on script analysis, figure drawing and rendering, character definition and control of the design elements. Prerequisite: theatre arts majors only. (3).
- 376. BASIC PATTERN DRAFTING AND DRAPING.** Study of essential techniques in creating basic sloper patterns and developing those patterns into modern or period garments. Prerequisite: THEA 273. (3).
- 377. INTRODUCTION TO THE HISTORY OF DRESS AND DÉCOR II.** Survey of period styles in dress and décor as relevant to theatre arts from 1650 to the present. (3).
- 378. THEATRE PRODUCTION TECHNIQUES V.** Production practicum for theatre performances using traditional and advanced methods and technology. Prerequisite: theatre arts majors only. (3).
- 380. COLLABORATION PRACTICUM.** Practical experience in the collaborative development of production concepts. May be repeated for credit. Prerequisite: consent of instructor. (1).
- 385. INTRODUCTION TO THEATRE MANAGEMENT.** Analysis and promotion, finance, and organization of educational, professional, and community theatre. Prerequisites: theatre arts majors only. (3).
- 386, 387. STAGE MANAGEMENT PRACTICUM III, IV.** Work as production manager for a University theatre production. Prerequisite: theatre arts majors only. (1, 1).
- 391. PRODUCTION STUDIES IV.** Supervised projects in fundamental aspects of design and technical production. Formal critique of projects by design faculty. Prerequisite: theatre arts major. (3).
- 392. PRODUCTION STUDIES V.** Supervised projects in fundamental aspects of design and technical production. Formal critique of projects by design faculty. Prerequisite: theatre arts major. (3).
- 403. DIRECTED PERFORMANCE STUDIES.** Individualized, directed study of performance and/or stage directing techniques and their applications. May be repeated once for credit. Prerequisite: THEA 301 or THEA 310 or THEA 482 and consent of instructor. (3).
- 404. DIRECTED DESIGN STUDIES.** Individualized, directed study of design and/or theatre technology topics and their applications. May be repeated once for credit. Prerequisites: theatre arts major and consent of instructor. (3).
- 410, 411. SENIOR PERFORMANCE STUDIES.** Concentrated studio work involving period movement, verse analysis, and scene work drawn from period plays. Prerequisites: THEA 310, 311. (4, 4).
- 421. MUSICAL THEATRE HISTORY AND LITERATURE I.** Studies in American musical theatre history and literature from 1850 to 1930. (3).
- 422. MUSICAL THEATRE HISTORY AND LITERATURE II.** Studies in American musical theatre history and literature from 1930 to the present. (3).
- 440. COSTUME DESIGN FOR FILM AND TELEVISION.** An introduction to costumes for feature films, television, commercials, and video. Prerequisite: theatre arts majors only. (3).
- 441. COSTUME SHOP MANAGEMENT.** Introduction to functions of a professional costume shop, including budgets, fittings, working with designers, rentals, supervision of staff. Prerequisite: theatre arts majors only. (3).
- 463. MUSICAL THEATRE PRACTICUM IV.** Voice and movement studies for the musical theatre student. May be repeated once for credit. Prerequisite: theatre arts majors only. (1).
- 465. MUSICAL THEATRE PERFORMANCE I.** Basic techniques of performing in musical comedy. May be repeated once for credit. Prerequisites: consent of instructor; theatre arts majors only. (3).
- 466. MUSICAL THEATRE PERFORMANCE II.** Practical experience in performance and production of musical comedy scenes. May be repeated once for credit. Prerequisites: consent of instructor; theatre arts majors only. (3).
- 468. ADVANCED VOICE AND SPEECH II.** Continuation of THEA 368, with emphasis on verse and text from period plays. Prerequisite: theatre arts majors only. (1).
- 470. SCENIC DESIGN.** In-depth exploration of the basic principles and techniques of scenic design with emphasis on conceptualization and composition. Prerequisite: theatre arts majors only. (3).

- 471. LIGHTING DESIGN.** In-depth exploration of the basic principles and techniques of lighting design with emphasis on conceptualization, color theory, and the physics of light. Prerequisite: theatre arts majors only. (3).
- 474. COSTUME DESIGN.** A technical approach to costume design through an introduction to textiles, dyes, fabric modifications, and dressmaker details. Prerequisite: theatre arts majors only. (3).
- 475. CAD PATTERN DRAFTING.** Introduction to the use of AutoCAD in drafting period costumes. Prerequisite: THEA 376. (3)
- 476. INTRODUCTION TO SCENE PAINTING.** Introduction to the use of standard scenic painting media and techniques in traditional and modern scene painting. Prerequisite: THEA 275. (3).
- 478. ADVANCED COMPUTER-AIDED DESIGN FOR THEATRE.** Practical use and application of computer-aided design programs in the scene design process. Prerequisite: theatre arts majors only. (3)
- 479. COSTUME DESIGN FOR FILM AND TELEVISION.** Explores designing costumes for film through discussion, projects, and in-class assignments. Prerequisite: THEA 375. (3).
- 481. DIRECTING.** Role and responsibilities in organizing and coordinating elements of play production. Prerequisite: theatre arts majors only. (3).
- 482. DIRECTING TECHNIQUES.** Supervised studio projects to develop competency in rehearsal techniques. Prerequisite: THEA 481. (3).
- 484. DIRECTING PRACTICUM.** Supervised studio projects designed to demonstrate proficiency in directing. Prerequisites: THEA 481, 482. (2).
- 487, 488. STAGE MANAGEMENT PRACTICUM V, VI.** Work as production manager for a University theatre production. Prerequisite: theatre arts majors only. (1, 1).
- 491. PRODUCTION STUDIES VI.** Supervised projects in fundamental aspects of design and technical production. Formal critique of projects by design faculty. Prerequisite: theatre arts major. (3).
- 492. PRODUCTION STUDIES VII.** Supervised projects in fundamental aspects of design and technical production. Formal critique of projects by design faculty. Prerequisite: theatre arts major. (3).
- 499. SENIOR REVIEW.** A capstone course assessing the attained knowledge of theatre for B.A. and B.F.A. students. Course will cover theatre history, theatre literature, and career planning, including the structure and processes of professional theatre. Prerequisite: theatre arts majors only. (Z grade). (1).

All 500-level courses in theatre arts can be taken only for graduate credit.

- 505, 506. MOTION PICTURE TECHNIQUES I, II.** Methods and practices for the film performer. Prerequisite: consent of instructor. (3, 3).
- 521. THE BLACK PLAYWRIGHT IN AMERICA.** Development of black playwrights in American drama. (3).
- 540. ADVANCED COLOR THEORY FOR DESIGNERS.** Advanced study of color as it applies to conceptualization and affects theatrical design. (3).
- 541. ADVANCED PROPERTY DESIGN AND CONSTRUCTION.** Advanced study of property design and construction techniques typically used by working artisans. (3).
- 542. ADVANCED COMMUNICATION FOR DESIGNERS.** In-depth discussion and practical exercises designed to increase the theatrical designer's ability to communicate with directors, performers, producers, and the various shops that will execute designs. (3).
- 543. RENDERING FOR THE THEATRE.** Exercises to improve rendering techniques by exploring a variety of media and styles. (3).
- 544. COSTUME SHOP MANAGEMENT.** Techniques for managing budgets, crew labor, work flow, fittings schedules, and other duties associated with effective management of a costume shop. (3).
- 545. THREE-DIMENSIONAL DESIGN.** Exercises designed to enhance the student's knowledge of and ability to use a variety of media typically employed to fabricate three-dimensional items used in a theatre. (3).
- 546. ADVANCED COSTUME CRAFTS.** Advanced study of costume craft techniques and products used to satisfy special costume needs, including mask-making, fabric painting and dyeing, and special millinery skills. (3).

- 547. ADVANCED COSTUME CONSTRUCTION.** In-depth study of common construction techniques used to create garments, treatments used for finish work, and closures. (3).
- 548. PATTERN MAKING.** Study of techniques used in creating basic patterns. (3).
- 561. ADVANCED ACTING.** Intensive exploration of acting problems, approaches and techniques. Combines lectures on acting theory with applied studio work. (3).
- 562. ADVANCED STAGE MOVEMENT.** Studies in movement techniques for the advanced actor. (3).
- 565. ADVANCED VOICE AND DICTION.** Methods of production; analysis and training of each student's voice; attention to individual career goals. (3).
- 566. ADVANCED ORAL INTERPRETATION FOR THE ACTOR.** Analysis and delivery of line studies and complete character studies of varying types and from various historical periods. Prerequisite: consent of instructor. (3).
- 569. ORIGINAL PERFORMANCE STUDIES.** A study in the creation of original performance works. Solo and group studies with nontraditional texts. (3).
- 570. SCENIC PAINTING FOR THE THEATRE.** Historical and modern theories and techniques of scenic painting for the theatre. (3).
- 571. ADVANCED THEATRE DESIGN GRAPHICS.** Exploration of the theory and techniques of drawing, composition and color as applied to design graphics for the theatre. (3).
- 572. ADVANCED STAGE COSTUMING.** Special problems in applied costume design, theory, and practice. Prerequisite: consent of instructor. (3).
- 573. ADVANCED STAGE LIGHTING.** The history, properties and functions of stage lighting, including production styles, script analysis, lighting formulae, psychological implications of light, color, space and form, composition. (3).
- 576. HISTORY OF DRESS AND DÉCOR I.** Historical survey of period styles in dress and décor as relevant to theatre arts from ancient Egypt to 1600. (3).
- 579. HISTORY OF DRESS AND DÉCOR II.** Historical survey of trends, innovations, and developments in the history of dress and decor from 1600 to the present, as pertaining to theatre arts. (3).
- 581. ADVANCED DIRECTING.** All phases of theatre work; current theories of production; preparation of director's prompt book. Prerequisite: consent of instructor. (3).
- 582. ADVANCED DIRECTING TECHNIQUES.** All phases of theatre work; current theories of production; preparation of production book. Prerequisite: consent of instructor. (3).
- 585. THEATRE MANAGEMENT.** Promotion, finance and organization of educational, professional, and community theatre; practical experience in university and experimental theatre. (3).

Dance–DANC

- 151. BALLET I.** Introduction to the technical principles and stylistic elements of classical theatrical dance, including study of basic ballet theory and vocabulary. May be repeated for credit. (2).
- 152. CONTEMPORARY DANCE I.** Fundamentals of contemporary concert dance technique, emphasizing the development of strength, flexibility, and body alignment. May be repeated for credit. (2).
- 153. JAZZ DANCE I.** Introductory study of theatrical jazz dance technique through development of a standard jazz warm-up isolation work and locomotor movements. May be repeated for credit. (2).
- 154. TAP DANCE I.** Introduction to tap dance technique, including study of basic tap vocabulary, fundamental rhythms, locomotor movements and tap styles. May be repeated for credit. (2).
- 200. DANCE APPRECIATION.** Survey of the history and development of the major dance forms: ballet, contemporary, jazz, and tap, as they relate to Western social and artistic culture. (3).
- 251. BALLET II.** Continuing development of the standard technique and vocabulary of classical ballet, with emphasis on expanded barre work and center practice. (2).
- 252. CONTEMPORARY DANCE II.** Continuing study of contemporary dance technique, focusing on primary dance elements (space, rhythm, force, shape) and movement qualities. Emphasis on musicality, individual expression and creativity. May be repeated for credit. Prerequisite: DANC 152. (2).
- 253. JAZZ II.** Continuing study of jazz dance technique, detailing standard jazz vocabulary and emphasizing development of strength, flexibility, control, and rhythmic accuracy. Repeatable for credit. Prerequisite: DANC 153. (2).

- 254. TAP II.** Expansion and development of tap dance technique and vocabulary, emphasizing speed, control, precise articulation, rhythmic accuracy, and effective dynamics. Repeatable for credit. Prerequisite: DANC 154. (2).
- 255. THEATRE DANCE I.** Development of a basic practical knowledge of choreographed movement in the musical theatre. Includes study of derivative musical/rhythmic forms and elementary Broadway dance vocabulary and styles. Repeatable for credit. Prerequisite: DANC 151 or 152. (2).
- 351. BALLET III.** Progressive study of technical and theoretical principles of classical dance, emphasizing development of adagio and allegro vocabulary. May be repeated for credit. Prerequisite: DANC 251. (2).
- 352. CONTEMPORARY DANCE III.** Progressive development of contemporary concert dance technique, including study of relevant choreographers, dance styles, and aesthetic value. May be repeated for credit. Prerequisite: DANC 252. (2).
- 353. JAZZ III.** Progressive development of jazz dance technique through application of relevant music theory and consideration of space, dynamics, phrasing, and performance elements. Repeatable for credit. Prerequisite: DANC 253. (2).
- 354. TAP III.** Progressive and continuing study of tap dance technique, emphasizing advanced-level floor work and syncopations. Includes study and comparison of major tap styles and aesthetics. Repeatable for credit. Prerequisite: DANC 254. (2).
- 355. THEATRE DANCE II.** Continuing and progressive study of representative musical theatre dance styles, relative to period (1900 to present) and ethnic derivation. Repeatable for credit. Prerequisite: DANC 255. (2).
- 450. DANCE COMPOSITION I.** An introduction to dance composition creatively and objectively through the basic elements of dance, time, space, and energy. (2).
- 451. BALLET IV.** Progressive and continuing study of classical dance, emphasizing control, balance, strength, and coordination in mastering technical and stylistic elements of ballet. Prerequisite: DANC 351. (2).
- 452. CONTEMPORARY DANCE IV.** Refinement and mastery of skills in contemporary concert dance through continuing in-depth study and evaluation of prominent modern dance theories, techniques, and choreographic approaches. Prerequisite: DANC 352. (2).
- 453. JAZZ DANCE IV.** Progressive study of jazz dance techniques through a comparative study of styles and methods. Emphasis on technical proficiency and mastery of body isolation/coordination in rhythmic syncopations. Prerequisite: DANC 353. (2).
- 454. TAP DANCE IV.** Refinement and mastery of tap dance skills, with emphasis on development of technique and styles of tap as a contemporary concert dance form. Prerequisite: DANC 354. (2).
- 455. DANCE COMPOSITION II.** Continuation of Dance 450, focuses on theme and variation vs. motif and development, silence, sound, and music. Includes a final choreography project suitable for stage presentation. (2). Prerequisite: DANC 450.
- 456. THEATRE DANCE REPERTORY I.** Development and performance of dance from the musical theatre repertory. May be repeated for credit. (2).
- 457. THEATRE DANCE REPERTORY II.** Development and performance of dance from the musical theatre repertory. May be repeated for credit. (2).
- 458. CONCERT DANCE REPERTORY I.** Development and performance of concert choreography. May be repeated for credit. (2).
- 459. CONCERT DANCE REPERTORY II.** Development and performance of concert choreography. May be repeated for credit. (2).
- 461. BALLET V.** Advanced study of classical ballet. (2).
- 471. BALLET VI.** Advanced study of classical ballet. (2).

THEOLOGY *See the College of Liberal Arts Section on Departmental Major and Minor Requirements.*

UNIVERSITY STUDIES—UNIV

301. INTRODUCTION TO UNDERGRADUATE SCIENTIFIC RESEARCH. An introduction to principles and practices of scientific research. Topics include the scientific method, research design, responsible conduct of research, scientific literature, data analysis and presentation, writing reports, and oral presentations. This course may not be used for major or minor credit. Prerequisite: consent of instructor. (3).

URBAN ADMINISTRATION *See the Department of Political Science.*

ZOOLOGY *See the Department of Biology.*

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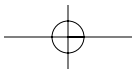
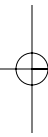
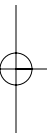
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