The School of Accountancy

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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 Emphasis Requirement • The Bachelor of Accountancy degree requires a minor/emphasis. 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 in the relevant department's section of this catalog. A student may use any of the required courses of the Bachelor of Accountancy degree to meet the minor requirement, (e.g., Eng. 101, 102, and 321 for a minor in English). Alternatively, a student also may meet the minor/emphasis requirement by selecting an emphasis from the areas of humanities, behavioral sciences, fine arts, or natural sciences and mathematics. An emphasis shall comprise four courses in the chosen area. The courses must be selected from at lease two different departments/programs of the chosen emphasis are. An emphasis may not be completed by using any other required courses of the Bachelor of Accountancy degree (e.g., English 321 may not be used in a general humanities emphasis). A student also may meet the minor/emphasis requirement by completion of the Alternate Route to Mississippi Teacher Certification.

EMPHASIS AREAS:

HUMANITIES DEPARTMENTS/PROGRAMS: Afro-American studies, classics, English, modern languages, history, honors, philosophy, religion, Southern studies, and gender studies.

BEHAVIORAL SCIENCE DEPARTMENTS/PROGRAMS: anthropology, Latin American studies, journalism, political science, psychology, and sociology.

FINE ARTS DEPARTMENTS: art, music, and theatre.

NATURAL SCIENCE AND MATHEMATICS DEPARTMENTS: biology, chemistry, geology, mathematics, and physics.

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. 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
University Studies	1	
Total Semester Hours	16-17	18-19

[1] Honors College students must take English 207 and 208 in the sophomore year rather than English 101 and 102 in the freshman year. Students other than those in the Honors College making a score of 26 or greater on the English section of ACT or 650 SAT verbal score must take English 102 and 321 for this requirement.
[2] Choose from Astronomy, Biology, Chemistry, Geology, or Physics.
[3] Choose from Afro-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/emphasis requirement*		3
Total Semester Hours	15	17

[1]For 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 321*[1]		3
Minor/emphasis 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		3
Minor/emphasis requirement	3	3
Nonbusiness elective[1]		3
Total Semester Hours	15	15

[1]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, 301, 302; Business 250 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	9
Approved nonaccountancy electives	9
Total	30

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, 301, 302; Business 250 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 Business Administration

N. Keith Womer, interim dean

Delvin D. Hawley, associate dean

Ann L. Canty, associate dean

William L. Gardner, interim associate dean

Doug Gurley, executive director
Mississippi Small Business Development Center

253 Holman Hall

GENERAL INFORMATION

Today's Business • Today's business environment requires an education that enables a person to understand and cope with dynamic and complex issues. 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, their communities, and society.

Vision • The vision of the School of Business Administration is to achieve the next level of academic excellence as perceived by academic peers and the business community. With the goal of becoming a nationally respected professional center of education and research, the school is a living laboratory of business through which learning and application are joined. Faculty, students, and the business community are linked together in an active learning partnership that fosters the personal development and continuous improvement of all participants.

Mission • The School of Business Administration, established in 1917, has a mission that includes responsibilities in three major areas: teaching, research, and service. The school's mission is to educate students in a learning environment conducive to excellence in meeting the challenges of the global marketplace; to expand knowledge by producing high quality scholarly and applied research; and to extend service to our constituents, building effective relationships with them, and addressing relevant problems and issues.

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 value of commitment to excellence includes a commitment to provide students with a broad-based education, encompassing a solid foundation in business administration and the development of a full range of skills and leadership competencies. The use of advanced information technology is valued in all of the school's teaching and research activities. 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.

A leading value of the School of Business Administration is that of fostering intellectual growth. The creation of an innovative learning environment that is rich

in diversity, creativity, teamwork, and high ethical standards is supported. This environment is conducive to lifelong learning and collegial scholarship.

Most important in the school's core values is a responsiveness to constituents. A commitment to continuous improvement as well as the delivery of high quality service in meeting the needs of the school's constituents is foremost. The school will be a prudent steward of resources that are provided to accomplish its goals.

Professional Preparation • The School of Business Administration provides students with an opportunity to gain a broad understanding of business management 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, business studies, economics, finance, insurance, international business, journalism and advertising, management, marketing, management information systems, real estate, and petroleum land management. A balanced selection of advanced courses in the respective areas comprise major programs appropriate to the specialized interests and needs of students.

Current issues relevant to total quality management, international economics and finance, demographic diversity of customers and employees, and global information technology are integrated throughout the undergraduate and graduate curricula. Problem solving, decision making, and interpersonal skills in communication and leadership are emphasized. 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.

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 1992. 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.

DELTA SIGMA PI SCHOLARSHIP KEY

OUTSTANDING MANAGEMENT INFORMATION SYSTEMS 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 PROFESSIONAL LAND MANAGEMENT AWARD

OUTSTANDING STUDENT IN REAL ESTATE AWARD

OUTSTANDING MANAGEMENT STUDENT AWARD

PHI BETA LAMBDA AWARD

PHI GAMMA NU AWARD

PHIL B. HARDIN FOUNDATION MARKETING AWARD

WALL STREET JOURNAL AWARD IN FINANCE

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. Exercises, cases, projects, and other pedagogic devices supplement the more traditional methods of lecture and discussion.

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 come 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 internships before graduation to apply the principles they have studied.

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 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 for business and personal activities.

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. Professor of Management • 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.

Otho Smith Professor of Economics • The Phil B. Hardin Foundation endowed this position to support the teaching and research activities of an established scholar in economics.

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 Economics • The P.M.B. Self, William King Self, and Henry C. Self Chair of Free Enterprise Economics 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: 130 semester hours (132 for economics majors and 134 for MIS majors). 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 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 Courses Submitted for a Degree • The overall average grade on all courses attempted at The University of Mississippi must be at least 2.0. In addition, the 2.0 average on courses submitted for a degree also must be obtained (1) on courses taken in residence at the University, (2) on business and accountancy residence courses, and (3) on residence courses in the designated major field.

Maximum Load • No student may enroll for more than 18 semester hours exclusive of exercise and leisure activity courses, University Studies 101, 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.

BUSINESS STUDIES, CODE 2014. A diversified program in business and economics provides a broad education for students planning to manage their own business or to enter a large business that maintains its own specialized training program. Business Studies students may select up to three different fields of concentration from accountancy, banking, economics, finance, insurance, management, management information systems, marketing, and real estate to construct an individualized program of study. These students may choose their business and nonbusiness electives to enhance their educational and career goals. Alternatively, an emphasis in petroleum land management is offered.

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.

INTERNATIONAL BUSINESS, CODE 2025. The international business program allows students to combine the knowledge of specific business skills related to international marketing, international accounting, international finance, and international management, with an understanding of language and cultures. Students are prepared to pursue a career with a firm engaged in international operations.

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.

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, international business, and the petroleum land management emphasis in business studies, 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.

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	
University Studies 101	1	

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 321–Advanced Composition		3
Literature	3	
Nonbusiness electives or minor courses	6	1
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.

BUSINESS STUDIES, Code 2014

Students with a business studies major will have thirty-three (33) hours for major and elective hours. The student will have two options in planning a program of study.

Courses	Semester Hours	
	Option 1	Option 2
Specialized area in Business I	12	9
Specialized area in Business II	12	9
Specialized area in Business III		9
Accountancy course (300 level or above)	3	3
Student's choice of electives from business or nonbusiness area (300 level or above)	6	3
	33	33

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	
Business studies area course or business elective[1] (300 level or above)	3	
Economics 307–Managerial Economics		3
Management Information Systems 309–Management Information Systems II		3
Management 391–Organizational Behavior		3
Business studies area courses		6
Nonbusiness elective or minor course		3

[1] 300 level or above business elective if two areas chosen.

SENIOR YEAR

Courses	Semester Hours	
	1st	2nd
Business Studies Area Courses	9	
Nonbusiness elective or minor course	3	
Business Studies 390–Business Career Planning	0	
Accounting elective (300 or above)	3	
Management 493–Management of Strategic Planning		3
Business studies area courses		9
Business or nonbusiness elective (300 level or above)		3

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. Senior students also will take a 2-hour capstone course (BUS 460).

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 electives*		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	
Business Studies 460–Special Topics in Business (capstone course)		2
Management 493–Management of Strategic Planning		3
Economics electives*	6	6
Business or nonbusiness option 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	
Finance 341–Risk and Insurance	3	
Economics 307–Managerial Economics	3	
Management Information Systems 309–Management Information Systems II		3
Management 391–Organizational Behavior		3
Finance 442–Commercial Liability Insurance (spring only)		3
Major field electives*		6
Nonbusiness or minor course		3

SENIOR YEAR

Courses	Semester Hours	
	1st	2nd
Finance 342–Life and Health Insurance	3	
Finance 441–Commercial Property Insurance (spring only)		3
Major field elective*	3	
Nonbusiness option or minor course		3
Business option 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, 341, 351, 431, 581, 445 (3 or 6 hours), or 534.

INTERNATIONAL BUSINESS, Code 2025

Students majoring in international business are required to demonstrate verbal and written fluency in a language other than English or must complete a minor in a second acceptable business language (6 hours at the 100 level plus 12 hours at the 200 level or higher for a total of 18 hours). French, German, Japanese, Chinese, Portuguese, Russian, or Spanish are defined as acceptable business languages. Other languages may be accepted in special cases with the approval of a member of the international business faculty and the dean.

Students will select 9 semester hours from an approved list of international business electives available in the Advising Suite, Holman 252.

FRESHMAN YEAR

Courses	Semester Hours	
	1st	2nd
English 101, 102–English Composition	3	3
Foreign language–See list of acceptable business languages	3	3
Laboratory science–astronomy, biology, chemistry, geology, or physics	3-4	3-4
Mathematics 267, 268 or 261, 262–Calculus I for Business, Economics and Accountancy I, II or Unified Calculus and Analytic Geometry I, II	3	3
Behavioral or social science–psychology, sociology, anthropology, or political science		3
Fine arts–art, art history, dance, music, or theater arts	3	
University Studies 101	1	

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 321–Advanced Composition		3
Literature	3	
Foreign language–same language as freshman year	3	3
Business 250–Legal Environment of Business		2
Management Information Systems 241	3	
Business 271–Business Communication		3
Business 230–Economic Statistics I		3
Nonbusiness elective	1	

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	
Business Studies 321–International Business		3
Economics 307–Managerial Economics		3
Management Information Systems 309–Management Information Systems II		3
Management 391–Organizational Behavior		3
Foreign language–same language as freshman year		3
International business elective		3
Business elective 300 level or above	3	

SENIOR YEAR

Courses	Semester Hours	
	1st	2nd
Management 595–International Management	3	
International business elective	3	
Finance 568–International Finance	3	
Foreign language–same language as freshman year	3	
Business elective 300 level or above		3
Business Studies 390–Business Career Planning	0	
Management 493–Management of Strategic Planning		3
Economics 510–International Trade and Commercial Policy		3
Marketing 552–Multinational Marketing		3
International business elective		3
Business or nonbusiness elective 300 level or above	3	

MANAGEMENT, Code 2011

The management major consists of twenty-four (24) semester hours, including MGMT 371. Students with a management major must have an emphasis in one of three areas: behavioral management, human resource management, or production and operations management. Designated courses for the emphasis area are available in the Advising Suite, Holman 252.

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	3	
Management major course		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 Courses	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 courses		9
Business elective or nonbusiness elective 300 or above		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 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		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: ACCY 301, 303, or 309; MKTG 367, MKTG 525, MKTG 551, and MKTG 552, as well as any additional nine (9) hours from the following courses: MKTG 494, MKTG 496, MKTG 353, MKTG 354, MKTG 356, MKTG 358, MKTG 361, MKTG 458, MKTG 462, or MKTG 565.

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 electives	6	
Accounting elective		3

SENIOR YEAR

Courses	Semester Hours	
	1st	2nd
Marketing 525, 551, 552	6	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
Marketing elective		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 religion	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 or 269-Calculus for Business, Economics, and Accountancy II or Unified Calculus and Analytic Geometry II or Elementary Mathematical Analysis		3
Laboratory Science-astronomy, biology, chemistry, geology, or physics	3-4	3-4
Journalism 101, 102	3	3
University Studies	1	

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 321-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	
Psychology, sociology, anthropology, or political science		3
Area Emphasis Courses*	3	3

*Choose from JOUR 271-News Reporting and JOUR 273-Editing By Design, or JOUR 272 and 274, Broadcast News Writing and Reporting I and II

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, 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
Non-business elective		1
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	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

BUSINESS STUDIES, Code 2014
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 foreign 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	
University Studies 101	1	

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 321–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 313–Sedimentology		4
Petroleum land management emphasis elective–Geology 302, 305, 309, or Geological Engineering 490	3	
Geology 315–Stratigraphy		4
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

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 261, 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 foreign 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 or 269–Calculus for Business, Economics, and Accountancy II or Unified Calculus and Analytic Geometry II or Elementary Mathematical Analysis	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
University Studies 101	1	

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 321–Advanced Composition		3
Literature	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 (fall only)	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 (fall only)	3	

SENIOR YEAR

Courses	Semester Hours	
	1st	2nd
Management Information Systems MIS 409 (spring only) and MIS 410 (spring only), MIS 412 (fall only)	3	6
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 (spring only) and 419 (spring only)		5
Business or nonbusiness elective 300 level or above		3

The School of Education

Jim R. Chambless, dean

162 Education Building

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 Educational Leadership and Educational Psychology) 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. The School of Education additionally prepares leaders in exercise science and leisure management through programs offered by the Department of Exercise Science and Leisure Management. With the addition of the Department Family and Consumer Sciences in 1977, the school prepares personnel for merchandising, dietetics and nutrition, hospitality management, and child and family life.

Degrees Offered • The school offers the degrees of Bachelor of Arts in Education, Bachelor of Science in Exercise Science, Bachelor of Arts in Leisure Management, and Bachelor of Science in Family and Consumer Sciences. 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 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 Department of Family and Consumer Sciences is accredited by the Council for Accreditation of the American Association of Family and Consumer Sciences. The School of Education holds membership in the American Association of Colleges for Teacher Education and in the Holmes Group.

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; special education; exercise science; leisure management; child and family life; merchandising; dietetics and nutrition; and hospitality management.

Clinical Experiences • Education students participate in a variety of laboratory and field experiences. Selected community facilities, agencies, and public schools also are used for observation and laboratory experiences for graduate and undergraduate students. Exercise science and leisure management majors are required to successfully complete a supervised internship with an instructor-approved organization. All family and consumer science majors complete a 200 hour practicum.

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 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 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 PDS 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. Field experience is offered in the Department of Family and Consumer Sciences. The Z grade is given for successful completion of student teaching.

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 was 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.

THE J.GORDON McMURRAY UNDERGRADUATE ACHIEVEMENT AWARD is given to an outstanding senior as chosen by the Leisure Management faculty.

THE J. ROBERT BLACKBURN UNDERGRADUATE ACHIEVEMENT AWARD is given to an outstanding senior as chosen by the Exercise Science faculty.

THE 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 CHILD AND FAMILY LIFE.

THE KAPPA OMICRON NU SOPHOMORE AWARD is an award given to a sophomore by the Kappa Omicron Nu national honor society.

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.

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 chapter Admission to the University. Registration, tuition, and other fees are given in the chapter Fees and Expenses.

Admission to Exercise Science and Leisure Management • Students with prior course work must present at least a 2.0 GPA on all work attempted. Upon admission, students should consult with their ES or LM adviser concerning recommended minors, electives, and the required sequence of professional core courses.

Admission to Teacher Education • Students are admitted to Teacher Education in two phases. In Phase I, students must complete the 45-hour general studies curriculum; earn a GPA of at least 2.5 on all work attempted; present minimum scores of 170 on the PPST-Reading test, 172 on the PPST-Writing test, and 169 on the PPST-Mathematics test (minimum computer based score requirements are 316 on the PPST-Reading test, 318 on the PPST-Writing test, and 314 on the PPST-Mathematics test); and complete EDCI 351 and EDCI 352.

Once admitted to Phase I, students are screened for admission to Phase II of teacher education. In order to maintain quality education in the undergraduate programs, the number of students admitted to Phase II is based on the number of full-time faculty. Admission to Phase II of the program allows the student to enroll in required professional studies courses.

Admission to Student Teaching • Applications are available in early September and must be returned by October 31 for spring student teaching. Fall student teaching (music only) applications are due the spring semester prior to fall student teaching. Applications are available in Room 163 Education Building.

To be admitted to student teaching, students must:

1. Be officially admitted to teacher education (requirements listed above).
2. Complete 15 hours of residence at the University.
3. Complete the following courses with a minimum grade of C.

Elementary education: EDCI 351, 352, 353, 354; EDEL 414 and 416; EDLE 417; EDRD 414.

Special education: EDCI 351, 352, 353, 354, all EDSP courses, and 15 hours of the 21 hours in their related field.

Secondary education: EDCI 351, 352, 353, 354; all required EDSE courses; and three-fourths of the content area and related areas.

Art education: EDCI 351, 352, 353, 354. The candidate must have completed at least three-fourths of the required course work in the teaching field.

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.

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 ranges from 129-130. 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 Fannye Love, chair • 121-A Education • 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 131-semester-hour program 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 131-semester-hour program. 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 132-hour semester-hour program. 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
Physical science with laboratory	3
Science	3
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 Afro-American studies	3
Fine arts	3
History (U.S., European, and/or Western Civilization preferred)	6
PSY 201–General Psychology	3
General Education, required of all elementary education and special education majors	
Health or nutrition	3
Speech or Fundamentals of Acting	3
US 101–The University in Principle and in Practice	1
Elementary Education only:	
SOC 101–Introductory Sociology	3
GEOG 101–Principles of Geography	3
Concentration or elective	4
Special Education only:	
Related fields—taken from the areas of psychology, communicative disorders, social work, sociology, anthropology, or mathematics	6
Electives	4
	62

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 will take the designated liberal arts core, but must include General Psychology (PSY 201) as either a core elective or a general elective as it is a prerequisite or corequisite to EDCI 352. Additionally, 3 hours of health or nutrition and 3 hours of speech, voice and diction, or fundamentals of acting must be completed for certification.

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
Fine arts education (ARED 361–Teaching Art in the Elementary School or 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 (concurrent with EDCI 352)	3
EDCI 352–Human Development and Diversity (concurrent with EDCI 351, 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
	34

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 416–Math and Science in 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
	32

Required Areas of Concentration

Elementary education majors will select two areas of concentration from the following list.

Required hours may include core courses.

Computers (18 semester hours)
English (18 semester hours)
Fine arts (18 semester hours)
Foreign language (18 semester hours in one specific language)
Mathematics (18 semester hours)
Math/computers (15 semester hours in math/9 hours in computers)
Science (18 semester hours)
Science/computers (15 semester hours in science/9 hours in computers)
Social studies (18 semester hours)
Special education (21 semester hours)

SPECIAL EDUCATION

JUNIOR YEAR

Courses	Semester Hours
Professional Education–Common Core	
EDCI 351–Foundations for Professional Growth (Concurrent with EDCI 352)	3
EDCI 352–Human Development and Diversity (Concurrent with EDCI 351) (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
Related fields	9
Electives	6
	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
Related fields	6
Electives	6
	33

[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	6
	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
	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
	11

SPECIAL EDUCATION

Persons holding a standard teaching certificate may obtain a Class A endorsement in special education (K-12 mild-moderate disabilities) by earning a minimum score on the specialty test (Special Education) of **Praxis II** or on the special education section of the **Content Mastery Examination for Educators (CMEE)** or by completing the following 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 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
	21

ENGLISH AS A SECOND LANGUAGE

ENGL 501–Descriptive Grammar or ENGL 592–Modern English Grammar	3
EDCI 542–Teaching English to Speakers of Other Languages (TESOL)	3
EDCI 631–Testing and Assessment in Second Language Acquisition	3
EDCI 647–Cultural Dimensions of Second Language Acquisition	3
	12

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 (Concurrent with EDCI 352)	3
EDCI 352–Human Development and Diversity (Concurrent with EDCI 351) (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
	31-36

SENIOR YEAR

Courses	Semester Hours
Professional Education–Secondary/Special Subjects	
EDSE 400–Secondary Block and appropriate 400-level methods course (452, 453, 455, 456, or 457)	5
EDSE 44__ –Special Methods I (442, 443, 445, 446, or 447)	3
EDLE 48__ –Student Teaching (in discipline: 482, 483, 485, 486, or 487)	12

*Students should consult their advisers for the recommended or required sequence of courses.

EXERCISE SCIENCE AND LEISURE MANAGEMENT—ESLM

Associate Professor, Linda F. Chitwood, chair • 219 Turner Complex • ESLM 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 Leisure Management. Upon admission, students should consult with their exercise science or leisure management adviser concerning recommended minors, electives, and the required sequence of professional core courses. Students majoring in exercise science or leisure management must maintain 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 those students who are interested in entering allied health and fitness professions. With the B.S. degree, students often choose careers as personal trainers and fitness consultants within private, municipal, corporate, and hospital-based fitness and wellness centers. 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

Courses	Semester Hours
ENGL 101, 102–English Composition I, II	6
History	6
History or appreciation of art, music, dance or theater	3
Biological science w/lab	4
Math 121, 123, or 125	3
US 101–The University in Principle and in Practice	1
HS 191–Personal and Community Health	3
HS 203–First Aid	3
ES 300–Introduction to Exercise Science	3
Total	32

* Students should consult with their exercise science adviser concerning approved minors, recommended electives, course prerequisites, and the required sequence of professional core courses.

SOPHOMORE YEAR

Courses	Semester Hours
Literature (200 or higher)	6
BISC 206	4
Physics or chemistry w/lab	4
ES 338–Motor Development	3
HS 303–Prevention and Care of Injuries[1]	3
HS 391–Trends and Topics in Health[2]	3
Minor or electives[3]	9
Total	32

JUNIOR YEAR

Courses	Semester Hours
Fine arts, literature, humanities	3
Classics, foreign language, philosophy, speech or religion	3
ES 346–Kinesiology[4]	3
ES 347–Kinesiology Lab	1
ES 348–Exercise Physiology[5]	3
ES 349–Exercise Physiology Lab	1
ES 351–Psychomotor Assessment	3
ES 394–Therapeutic Exercise and Fitness	3
Minor or electives	12
Total	32

SENIOR YEAR

Courses	Semester Hours
Anthropology, economics, political science, psychology, or sociology	3
ES 402–Exercise Leadership	3
ES 456–Fitness Assessment and Exercise Prescription[6]	3
ES 457–Fitness Assessment and Exercise Prescription Lab	1
ES 446–Biomechanics of Human Movement[7]	3
ES 471–Management of Health, Fitness, and Sports Programs	3
ES 473–Practicum[8]	3
ES 540–Behavioral Aspects of Exercise[8]	3
Minor and/or electives	9
Total	34

[1] HS 203 prerequisite
[2] HS 191 prerequisite
[3] Students should consult their exercise science adviser concerning approved minors and recommended electives.
[4] Prerequisite: BISC 206, ES 347 must be taken during the same semester.
[5] Prerequisite: BISC 206, ES 349 must be taken during the same semester.
[6] Prerequisite: MATH 121, 123, or 125, ES 348, and ES 349. ES 457 must be taken during the same semester.
[7] Prerequisite: MATH 121, 123, or 125, ES 346 and ES 347.
[8] Prerequisite: senior rank, 24 core hours complete, 2.5 GPA in core, consent of adviser.

BACHELOR OF ARTS IN LEISURE MANAGEMENT

The B.A. in Leisure Management degree program is designed to develop skills preparatory to leadership and supervisory roles in a variety of leisure services careers to include municipal, outdoor, therapeutic, military, church, youth, commercial, industrial, and travel/tourism.

CURRICULUM

FRESHMAN YEAR

Courses	Semester Hours
ENGL 101, 102–English Composition I, II	6
History	6
MATH 121	3
Computer science (leisure management adviser's approval)	3
General electives	6
US 101–The University in Principle and in Practice	1
HS 191–Personal and Community Health	3
Exercise-leisure activities	2
LM 194–Foundations of Leisure	3
LM 200–Leisure Programs Leadership	3
Total	36

* Students should consult with their leisure 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	4
General Psychology	3
Speech	3
LM 201–Pre-intern Field Practicum	1
LM 302–Program Planning & Development	3
HS 203–First Aid	3
Exercise-leisure activities	2
General elective	3
Total	34

JUNIOR YEAR

Courses	Semester Hours
Biological/physical science	3-4
Human growth and development	3
Elementary statistics	3
Economics, finance, marketing, management, business studies, accounting	6
LM 301–Planning and Evaluation of Leisure Systems	3
LM 332–Outdoor Recreation	3
LM 362–Recreation for Persons with Disabilities	3
LM elective (371, 490)	3
Exercise-leisure activities	2
General elective	4
Total	33-34

SENIOR YEAR

Courses	Semester Hours
Anthropology, sociology	3
Political science	3
JOUR 391	3
Management	3
SOC 315–Leisure and Popular Culture	3
General electives	3
LM 401–Internship in Leisure Program[1]	6
LM 425–Design and Maintenance of Facilities	3
LM 471–Administration of Leisure, Fitness & Sports Programs	3
LM professional elective (371, 490, 510, 539, 569, 571, 572, 573)	3
Total	33

[1] See LM 401 prerequisites.

FAMILY AND CONSUMER SCIENCES—FCS

Associate Professor Erskine R. Smith, chair • 110 Meek Hall

BACHELOR OF SCIENCE IN FAMILY AND CONSUMER SCIENCES

Four areas of emphasis in family and consumer sciences are offered: child and family life; merchandising; dietetics and nutrition; and hospitality management. A major in family and consumer sciences qualifies the student for membership in the American Association of Family and Consumer Sciences. The curriculum in dietetics and nutrition meets didactic education requirements as approved by the Council on Accreditation of Dietetic Education (CADE) of the American Dietetic Association.

CURRICULUM FOR THE BACHELOR OF SCIENCE IN FAMILY AND CONSUMER SCIENCES DEGREE with emphasis in CHILD AND FAMILY LIFE

FRESHMAN YEAR

Courses	Semester Hours
ENGL 101, 102–English Composition	6
University Studies 101	1
FCS 150–Introduction to the FCS Profession	3
Biological science (with lab)	3
Physical science (with lab)	3
Math 120, 121 or higher	3
SOC 101	3
Fine arts elective	3
MIS 241 or CSCI 103	2-3
SPCH 102 or SPCH 105	3
Elective	3
Total	33-34

SOPHOMORE YEAR

Courses	Semester Hours
Literature (6 hours of English at the 200 level)	6
SOC 211–Social Problems	3
Math 115–Elementary Statistics	3
Social work required elective**	3
FCS 311–Nutrition	3
FCS required elective*	3
Electives	6
Social science electives	6
Total	33

JUNIOR YEAR

Courses	Semester Hours
FCS 321–Child Care and Development	3
FCS 323–Human Development Across the Life Span	3
FCS 325–Marriage and Family Relations	3
FCS 443–Consumer Problems	3
Management 371–Principles of Management	3
EDSP 308–Introduction to Special Education	3
Social work required elective**	3
FCS required elective*	3
Electives	6-7
Total	30-31

SENIOR YEAR

Courses	Semester Hours
FCS 427–Aging and the Family	3
FCS 451–Parenting Across the Life Span	3
FCS 473–Family Life Education	3
FCS 521–Family Seminar	3
FCS 535–Human Sexuality	3
FCS required electives*	9
Electives	9
Total	33
Curriculum total	130

*Students must take five of the following courses:

FCS 327–Topics in Family and Child Studies	3
FCS 343–Socio-economic Aspects of Housing	3
FCS 370–The Hospitalized Child	3
FCS 422–Nursery School-Day Care Procedures	3
FCS 425–Adolescents and the Family	3
FCS 471–Introduction to Marriage and Family Therapy	3
FCS 482–Field Experience	3
FCS 517–Community Nutrition	3
CD 201–Introduction to Communicative Disorders	3
SOC 325–Social Psychology	3
HS 191–Personal and Community Health	3
HS 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 Policies II	3

CURRICULUM FOR THE BACHELOR OF SCIENCE IN FAMILY AND CONSUMER SCIENCES DEGREE with emphasis in HOSPITALITY MANAGEMENT

FRESHMAN YEAR

Courses	Semester Hours
ENGL 101, 102–English Composition I, II	6
FCS 150–Introduction to the FCS Profession	3
FCS 215–Introduction to Hospitality Management	3
MATH 120–Quantitative Reasoning or more advanced course	3
SOC 101–Introductory Sociology	3
PSY 201–General Psychology	3
Physical science electives	6
ECON 202–Principles of Microeconomics	3
US 101–University Studies	1
BUS 250–Legal Environments in Business	2
Total	33

SOPHOMORE YEAR

Courses	Semester Hours
FCS 211–Principles of Food Preparation	3
FCS 311–Nutrition	3
SPCH 102–Fundamentals of Public Speaking	3
ACCY 201–Introduction to Accounting Principles I	3
Biological science electives	8
POL 101, 304, or 316	3
MIS 241 or CSCI 103	2-3
Literature	6
Total	31-32

JUNIOR YEAR

Courses	Semester Hours
FCS 361–Front Office Administration	3
MGMT 371–Principles of Management	3
MGMT 383–Human Resources Management	3
MKTG 351–Marketing Principles	3
FCS electives	6
General electives	6
Fine arts elective	3
FCS 463–Foodservice Procurement	3
FCS 462–Quantity Food/Service Production	3
Total	33

SENIOR YEAR

Courses	Semester Hours
FCS 467–Hospitality Financial Management	3
FCS 484–Practicum in Hospitality Management	3
FCS 443–Consumer Problems	3
FCS electives	6
General electives	11-12
LM 301; MATH 115; MKTG 353, 354, 361 or ACCY 202	3
FCS 461–Foodservice Systems Management I	3
Total	32-33
CURRICULUM TOTAL	**130**

CURRICULUM FOR THE BACHELOR OF SCIENCE IN FAMILY AND CONSUMER SCIENCES DEGREE with emphasis in MERCHANDISING

FRESHMAN YEAR

Courses	Semester Hours
ENGL 101,102	6
University Studies 101	1
FCS 150–Introduction to the FCS Profession	3
Biological science with lab	3/4
Physical science with lab	3/4
FCS 102–Introduction to Merchandising	3
MATH 120 or 121	3
MATH 115	3
SOC 101	3
PSY 201	3
Elective	3
ECON 202	3
Total	37/39

SOPHOMORE YEAR

Courses	Semester Hours
ECON 203	3
ACCY 201, 202	6
FCS 306–Costume History	3
FCS 201–Textiles	3
FCS 205–Soft Goods Marketing	3
BUS 271–Business Communication	3
MIS 241 or CSCI 103	2-3
English literature (200 level or higher)	6
Total	34-36

JUNIOR YEAR

Courses	Semester Hours
FCS 302–Clothing and Consumer Society	3
Fine arts	3
MGMT 371–Principals of Management	3
FCS 421–Global Textiles and Apparel	3
FCS 426–Mall Management	3
MKTG 351	3
MKTG 361	3
MKTG 367	3
Business electives	6
FCS electives*	6
	36

SENIOR YEAR

Courses	Semester Hours
FCS 443–Consumer Problems	3
FCS 444–Strategic Merchandising Issues	3
FCS 481–Internship	3
Electives	10-13
FCS electives*	6
	25-28

*Electives (9-12): FCS 310–Non-Store Retailing; FCS 403–New York Tour; FCS 424–International Consumer Retailing; FCS 550–Seminar in Merchandising; FCS 595–International Study Tour; FCS 323–Human Development across the Life Span; FCS 325–Marriage and Family Relations; FCS 311–Nutrition.

CURRICULUM FOR THE BACHELOR OF SCIENCE IN FAMILY AND CONSUMER SCIENCES DEGREE with emphasis in DIETETICS AND NUTRITION

FRESHMAN YEAR

Courses	Semester Hours
ENGL 101, 102–English Composition I, II	6
US 101–University Studies	1
FCS 150–Introduction to the FCS Profession	3
SOC 101–Introductory Sociology	3
MATH 121–College Algebra	3
ECON 202–Principles of Microeconomics	3
FCS 211–Principles of Food Preparation	3
BISC 102, 103, 104, 105 or BISC 160, 161, 162, 163	8
Fine arts	3
PSY 201–General Psychology	3
Total	36

SOPHOMORE YEAR

Courses	Semester Hours
Literature	6
FCS 311–Nutrition	3
BISC 210–Principles of Microbiology	4
CHEM 105, 115, 106, 116–General Chemistry	8
MATH 115–Elementary Statistics	3
MIS 241–Management Information Systems I or CSCI 103–Computer Survey	2-3
Social science elective	3
JOUR 102—News Reporting or ENGL 321 Advanced English Composition	3
Total	32-33

JUNIOR YEAR

Courses	Semester Hours
MGMT 371–Principles of Management	3
BISC 206/207 or BISC 330	4-8
CHEM 121–Fundamentals of Organic Chemistry	3
FCS 410–Fundamentals of Clinical Dietetics	3
FCS 415–Experimental Food	3
SPCH 102–Fundamentals of Public Speaking or SPCH 105—Business and Professional Speech	3
CHEM 371–Biochemical Concepts	3
FCS 462–Quantity Food Production and Service	3
FCS 463–Food Service Procurement	3
Total	28-32

SENIOR YEAR

Courses	Semester Hours
FCS 443–Consumer Problems	3
FCS 461–Food Service Systems Management I	3
FCS 517–Community Nutrition	3
FCS 483–Practicum in Dietetics and Nutrition	3
Electives	8-13
FCS 411–Advanced Nutrition	3
MGMT 383–Human Resources Management	3
FCS 412–Diet in Disease	3
Total	29-34
MINIMUM TOTAL	**130**

The School of Engineering

James G. Vaughan, interim dean

Stacy V. Holmes, assistant 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.

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, the national engineering accrediting agency. 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 Computer Science Accreditation Commission (CSAC) of the Computing Sciences Accreditation Board (CSAB), a specialized accrediting body recognized by the Council on Postsecondary Accreditation (COPA) and the U.S. Department of Education.

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 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 which 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 both engineering science and computational engineering science. Students interested in these degrees should consult the Graduate School catalog.

Accreditation • The Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET) has accredited the Bachelor of Science curricula in chemical, civil, electrical, geological, and mechanical engineering. The

Computer Science Accreditation Commission of the Computing Sciences Accreditation Board (CSAB) has accredited the Bachelor of Science in Computer Science degree. 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, and Tau Beta Pi, the engineering national honorary fraternity.

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 masters 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.

Center for Computational Hydroscience 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 hydroscience and engineering problems, and to advance the forefront of science and engineering methodology in computational modeling of hydrosystems.

Telecommunications • This program surveys various aspects of the industry. Students taking the Bachelor of Engineering degree may choose to take an emphasis in telecommunications. A certificate in telecommunications may be awarded to a candidate after the completion of the requirements for an emphasis. Details may be obtained from the instructional program coordinator.

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 approving 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 which 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. The Engineering Student Body also assesses a $3 special fee.

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.

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.

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 which 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** • Students receiving degrees through the school must complete a minimum of 18 semester hours of social sciences and humanities/fine arts course work. Courses selected should meet the following requirements: (a) At least 6 hours of sequential work in one field of the social sciences; (b) 6 hours of sequential work in one field of the humanities (or fine arts); and (c) 3 hours of course work in one field of the fine arts (or humanities). The remaining 3 hours of work should be at an advanced level in one of the course areas in which 6 hours of course work has already been completed. For the purpose of this regulation social sciences will include Afro-American studies, anthropology, economics, political science, psychology, and sociology; humanities will include classics, English, history, modern languages (200-level and above), philosophy, religions, 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 courses may be used to meet these requirements as appropriate, depending on their topical content.
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.

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.

[3] These courses may not be counted toward a degree in the School of Engineering.

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, for transfer students, a 2.00 grade-point average must be earned for all work which is taken at The University of Mississippi and which is submitted in fulfillment of degree requirements, regardless of grades earned for work taken at other institutions.
   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 which 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 which 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[4]	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
University Studies 101–The University in Principle and in Practice	1	

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 goals of the Department of Chemical Engineering of the University of Mississippi are consistent with and an outgrowth of the academic focus of the University as a whole and its goals for the 1990s. Graduates of the department should be able to compete nationally in the professional world of engineering in industrial, government, and academic positions. At the undergraduate level, students should be able to succeed in the business world, or in the professional or graduate school of their choice.

Individuals with undergraduate degrees from the Department of Chemical Engineering at The University of Mississippi should:

1. Have a firm foundation in the mathematical, physical, engineering, and chemical engineering sciences.
2. Be able to apply those basic principles to new problems and processes.
3. Know how and when to apply these principles, understanding the importance of examining alternatives as well as the limitations of technical solutions.
4. Recognize that chemical engineering is a dynamic subject, requiring engineers to gather information from a variety of sources and to ensure they are keeping up with new developments in the field. Successful engineering practice requires graduates to learn and develop constantly, both professionally and personally.
5. Recognize that the practice of engineering is not an isolated endeavor, but must be pursued with an understanding of broader ethical and social responsibilities.
6. Be able to express themselves effectively in both oral and written communication.

TOTAL SEMESTER HOURS: 133

FIRST YEAR: 32 Semester Hours

Courses	Semester Hours	
	1st	2nd
English 101, 102–English Composition	3	3
University Studies 101–The University in Principle and Practice	1	
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 245–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 505, 506–Chemical Engineering Laboratory I, II	2	2
Chemical Engineering 509, 510–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, as well, to the environmental engineering emphasis listed beginning on the following page.

Goals • To provide a science-oriented civil engineering background such that the civil engineering graduate will have the capability and potential to either (1) pursue a career in professional practice or (2) continue his/her studies at the graduate level in order to pursue a career in teaching and/or research eventually.

General objectives:

- To impart a basic knowledge of mathematics as well as to provide sufficient practice in the application of mathematics, so that the student will be prepared to deal with the technical problems of today and be able to expand his/her mathematical capabilities to enable him/her to deal with the technical problems of tomorrow.
- To provide a basic understanding of the sciences required for both civil engineering practice and research.
- To provide a background in the social sciences and humanities. The civil engineer, perhaps more than any other type of engineer, interacts with the public and must have an awareness of such fields of knowledge as sociology, psychology, philosophy, and history.

- To provide a strong background in the engineering sciences, so that the student will have a foundation from which to advance into his/her major courses and will have an awareness of the entire field of engineering.

Specific objectives for the civil engineering content of the curriculum:

- To have a broad curriculum covering as many of the sub-areas of civil engineering as possible.
- To utilize the principles and techniques learned in the engineering science courses to the fullest extent possible.
- To have a design content which (1) makes the student aware of the state-of-the-art and (2) introduces to him/her synthesis and the art of problem solving.
- To expand the science-orientation concept into the civil engineering content.
- To expose the student to laboratory practice in civil engineering.
- To ensure that every student is exposed to the principles of professionalism and ethics in civil engineering.
- To fully satisfy the EAC/ABET accreditation criteria.

TOTAL SEMESTER HOURS: 135

FIRST YEAR: 34 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
Physics 211, 221–Physics for Science and Engineering; Laboratory		4
Computer Science 251–Programming for Engineering and Sciences	3	
University Studies 101–The University in Principle and in Practice	1	
Socio-humanistic/fine arts electives [6]	3	3

SECOND YEAR: 31 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 311*–Intermediate Mechanics		3
Engineering 312*–Mechanics of Materials		3
Engineering 313*, 314*–Introduction to Materials Science; Laboratory		4
Civil Engineering 207*–Surveying	1	
Socio-humanistic/fine arts elective[6]	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.

THIRD YEAR: 34 Semester Hours

Courses	Semester Hours	
	1st	2nd
Engineering 310–Engineering Analysis I	4	
Engineering 321, 322–Thermodynamics; Transport Phenomena	3	3
Engineering 360, 361–Electric Circuit Theory; Laboratory	4	1
Civil Engineering 307–Civil Engineering Laboratory I		1
Civil Engineering 315–Civil Engineering Materials	3	
Civil Engineering 311, 411–Structures I, II	3	3
Civil Engineering 431–Soil Mechanics I		3
Civil Engineering 481–Transportation Engineering I		3
Socio-humanistic/fine arts elective[6]		3

FOURTH YEAR: 36 Semester Hours

Courses	Semester Hours	
	1st	2nd
Civil Engineering 401–Professionalism in Civil Engineering	1	
Civil Engineering 407–Civil Engineering Laboratory II	1	
Civil Engineering 412–Design of Concrete Structures	3	
Civil Engineering 413–Structural Steel Design		3
Civil Engineering 433–Foundation Engineering		3
Civil Engineering 442–Applied Fluid Mechanics	3	
Civil Engineering 453–Probabilistic Analysis and Design		3
Civil Engineering 455, 456–Civil Engineering Design I, II	1	3
Civil Engineering 471–Environmental Engineering I	3	
Technical electives	3	3
Socio-humanistic/fine arts electives[6]	3	3

Bachelor of Science in Civil Engineering with an *Environmental Engineering Emphasis* • This curriculum combines science, mathematics, engineering science, and engineering design to provide the basic preparation for a career in environmental engineering.

TOTAL SEMESTER HOURS: 136 or 137

FIRST YEAR: 34 Semester Hours

Courses	Semester Hours	
	1st	2nd
English 101, 102	3	3
Math 261, 262–Unified Calculus and Analytic Geometry	3	3
Chemistry 105, 106, 115, 116–General Chemistry; Laboratory	4	4
Physics 211, 221–Physics for Science and Engineering; Laboratory		4
Computer Science 251–Programming for Engineering and Sciences	3	
US 101–University Studies	1	
Socio-humanistic/fine arts 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.

SECOND YEAR: 33 SEMESTER HOURS

Courses	Semester Hours	
	1st	2nd
Math 263, 264–Unified Calculus and Analytic Geometry	3	3
Math 353–Elementary Differential Equations	3	
Physics 212, 222–Physics for Science and Engineering; Laboratory	4	
BISC 160, 161, 162, 163–Biological Sciences I and II; Laboratory I and II	4	4
Engineering 207–Graphics I	1	
Engineering 309–Introductory Mechanics		3
Engineering 313, 314–Introduction to Materials Science; Laboratory		4
Civil Engineering 207–Surveying	1	
Socio-humanistic/fine arts elective	3	

THIRD YEAR: 35 or 36 Semester Hours

Courses	Semester Hours	
	1st	2nd
Engineering 310–Engineering Analysis I	4	
Engineering 312–Mechanics of Materials	3	
Engineering 321, 322–Thermodynamics, Transport Phenomena	3	3
Engineering 360, 361–Engineering Circuit Theory; Laboratory	4	1
Civil Engineering 453–Probabilistic Analysis and Design		3
Chemical Engineering 307–Chemical Process Principles I	3	
Chemical Engineering 309–Introduction to Chemical Engineering Design		2
Chemical Engineering 317–Unit Operations I		3
Technical elective: **EITHER** CE 431, CE 307–Soil Mechanics I; Civil Engineering Laboratory I **OR** CE 481–Transportation Engineering I		3-4
Socio-humanistic/fine arts elective		3

FOURTH YEAR: 34 Semester Hours

Courses	Semester Hours	
	1st	2nd
Engineering 301, 401–Environmental Engineering Laboratory I and II	1	1
Civil Engineering 311–Structures I	3	
Civil Engineering 401–Professionalism in Civil Engineering	1	
Civil Engineering 442–Applied Fluid Mechanics	3	
Civil Engineering 455, 456–Civil Engineering Design I and II	1	3
Civil Engineering 471–Environmental Engineering I	3	
Engineering 537–Environmental Engineering II		3
Chemical Engineering 417–Unit Operations II	3	
Geological Engineering 450–Hydrogeology		3
Geological Engineering 460–Fundamentals of Waste Disposal		3
Socio-humanistic/fine arts electives	3	3

Bachelor of Science in Computer Science • The major is designed 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.

Course Requirements: Candidates must successfully complete 131 semester hours of course work which shall include the following:

University Studies 101 [1 hours]
English 101, 102, 200 [9 hours]
Social sciences, fine arts, and humanities[1] [18 hours]
Speech 105 [3 hours]
Mathematics 261, 262, 263, 301, 302, 319 [18 hours]
Economics 230 or Mathematics 475 [3 hours]
Physics 211, 212, 221, 222 [8 hours]
General science electives[2] [6 hours]
Electrical Engineering 335, 336 [4 hours]
Computer Science 111, 112, 211, 223, 300, 311, 387, 423, 433, 450, 487[3] [31 hours]
Computer Science electives chosen from 300-level and above
Computer science courses or approved electives[4] [15 hours]
Technical electives[5] [15 hours]
Optional international studies concentration[6]

FIRST YEAR: 31 Semester Hours

Computer Science 111, 112—Computer Science I, II	3	3
Mathematics 261, 262—Unified Calculus and Analytic Geometry	3	3
English 101, 102—English Composition	3	3
Speech 105—Business and Professional Speech		3
Social sciences, humanities, fine arts electives	6	3
University Studies 101—The University in Principle and in Practice	1	

SECOND YEAR: 33 Semester Hours

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 200—Introduction to Literature	3	
Social sciences, humanities, fine arts electives		3

THIRD YEAR: 34 Semester Hours

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	
Economics 230 or Mathematics 475, statistics		3
Social sciences, humanities, fine arts electives	3	3
Technical electives[6]	3	3

FOURTH YEAR: 33 Semester Hours

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[6]	6	3

[1]See Academic Requirements at the beginning of this chapter for the required School of Engineering course distribution.
[2]A list of acceptable science courses is available in the department office.
[3]For the specifically required computer science courses, no grade less than C can be applied to the degree requirements.
[4]A list of acceptable computer science electives is available in the department office.
[5]A list of acceptable technical electives is available in the department office.
[6]A list of requirements for the international studies concentration 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 at The University of Mississippi are:

1. to educate students in the fundamental concepts of electrical engineering with an engineering science emphasis in a way that teaches the student to form an appreciation for the interrelationship between basic knowledge, technological advance, and human needs;
2. to contribute to mankind's knowledge through basic and applied research for the solution of society's current and future technical problems; and
3. to support professional, industrial, and economic development over the state of Mississippi through service.

These goals are consistent with the Mission Statement 5 of Purpose and Goals of The University of Mississippi that focuses our resources in the areas of engineering, communication, and related technologies. The goals are also consistent with The University of Mississippi Mission Goal Statement Focus Areas for the 1990s.

Program Philosophy • The Electrical Engineering Department has established an excellent undergraduate program that is founded on basic sciences, mathematics, and engineering science fundamentals and is accredited by ABET. The undergraduate electrical engineering program emphasizes the mastery of fundamental concepts and principles and strives to elicit original and fundamental thought processes from the students, focusing on the "whys" rather than the "hows" of engineering. A major goal of this program is that a student undergoes mental development to a point where he or she can learn rather quickly and without much difficulty the type of information generally found in undergraduate textbooks. The program consists of pre-engineering background courses that lead into six major multi-course sequences in the undergraduate electrical engineering program: 1) Circuits and Electronics, 2) Systems, 3) Digital Systems/Computers, 4) Electromagnetic Fields/RF, 5) Design, and 6) Engineering Science Core. This program is broad-based and covers the fundamental engineering science areas of electrical engineering. This educational philosophy is pursued because it is felt that specialization should be acquired at the graduate level.

Objectives • Based on this philosophy, our goals are to provide quality undergraduate and graduate programs in electrical engineering with national and international recognition. These goals reflect the fact that no engineering educational program can develop fully without parallel development of research and faculty capabilities. Thus, the department continues to place the utmost importance on faculty and support resources.

In view of our objectives, the following continuing objectives for undergraduate student education have been adopted with the appropriate vehicles for evaluation. 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 computations, graphics, word-processing, data acquisition and 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. Individual and team laboratory experiences in electrical engineering will include circuit theory, electronics, analog systems, digital systems, microprocessor systems, HF and microwave systems, control systems, computer-aided design, and electrical design. These experiences will include the design of experiments, computer-aided data acquisition, process control, and the 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 in a global/science context.
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 specific objectives above in items 1 through 8. Our program is narrowly focused to meet these objectives, because we believe that modern-day electrical engineering students should not specialize at the undergraduate level. This philosophy is based upon the premise that the amount of technical knowledge in this profession is so extensive that fundamentals should be mastered at the undergraduate level and specialization should be pursued at the graduate level.

TOTAL SEMESTER HOURS: 133

FIRST YEAR: 34 Semester Hours

Courses	Semester Hours	
	1st	2nd
English 101, 102–English Composition	3	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	
University Studies 101–The University in Principle and in Practice	1	

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 360–Electric Circuit Theory[12]		4
Socio-humanistic/fine arts electives	6	6

THIRD YEAR: 34 Semester Hours

Courses	Semester Hours	
	1st	2nd
Engineering 309–Introductory Mechanics	3	
Engineering 310, 410–Engineering Analysis I, II	4	4
Engineering 321–Thermodynamics	3	
Engineering 361–Electric Circuit Lab	1	
Electrical Engineering 331, 341–Linear Systems, Theory of Fields		6
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.	2	1

FOURTH YEAR: 32 Semester Hours

Courses	Semester Hours	
	1st	2nd
Electrical Engineering 333–Systems Laboratory	1	
Electrical Engineering 431–Theory of Control Systems	3	
Electrical Engineering 433–High Frequency and Microwave Laboratory		1
Electrical Engineering 441–Electromagnetic Theory I	3	
Electrical Engineering 443–Network Analysis and Synthesis		3
Electrical Engineering 447–Modulations, Noise, and Communications	3	
Electrical Engineering 451–Electrical Energy Conversion		3
Electrical Engineering 453–Solid State Devices		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[13]	3	
Technical electives[14]		3

Bachelor of Science in Geological Engineering • The goals of the geological engineering program are an outgrowth of and consistent with The University of Mississippi academic focus and goals for the 1990s. These are designed to produce graduates capable of conducting productive careers as professional geological engineers engaged in continuous professional growth along their chosen career path.

[12] 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.
[13] May substitute PHY 317.
[14] Elective selected from EL E 442, 523, and 525.

While recognizing that the primary goal is to educate students whose careers will serve the needs of the state of Mississippi, it is our goal to train students whose professional careers also will serve the needs of the nation and the world in geological engineering and related fields.

Toward this broadly defined end, the objectives of the geological engineering program include sound training in fundamental mathematics, chemistry, and physics, in preparation for introductory and advanced instruction in geology and geological engineering. Because of the unique nature of geological engineering, the program includes courses covering engineering sciences, geological sciences, and geological engineering design fundamentals that are the core of the geological engineering profession. Recognizing that a well-educated geological engineer also must be versed in the liberal arts, the geological engineering program includes elective courses in humanities and the arts, as well as required English courses designed to train students in effective written and oral communication. Modern scientific and engineering practice requires familiarity with modern technology, especially computer hardware and software technology, and instruction in these areas is integrated throughout the curriculum. Because effective geological engineering practice commonly requires that engineering solutions to practical problems be economically feasible, the curriculum includes instruction in economics that prepares graduates to participate constructively in business development and economic growth as part of their professional contributions to society. Finally, because a successful and productive career in geological engineering requires lifelong learning, capstone courses in design require students to demonstrate creative solutions to practical problems that are ethical, environmentally sound, cognizant of public safety requirements, and economically feasible. Results of design projects must be effectively presented in professional written and oral formats.

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, 166–General Chemistry; Laboratory	4	4
Geology 103–Earth Dynamics	4	
Geology 221–Minerology		4
University Studies 101	1	
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
Computer Science 251–Programming for Engineering and Sciences	3	
Engineering 207–Graphics I		1
Geology 222–Elementary Petrology	4	
Geology 303–Structural and Tectonic Geology		3
Economics 202, 203–Principles of Microeconomics, Macroeconomics	3	3
Socio-humanistic/fine arts elective		3

THIRD YEAR: 34 Semester Hours

Courses	Semester Hours	
	1st	2nd
Mathematics 353–Differential Equations	3	
Engineering 309–Introductory Mechanics	3	
Engineering 312–Mechanics of Materials		3
Engineering 321, 322–Thermodynamics; Transport Phenomena	3	3
Geology 305, 315–Geomorphology; Stratigraphy	3	4
GE 234–Intro. to Geological Engineering Field Methods	1	
GE 450–Hydrogeology		4
GE 470–Intro. to Geographic Information Systems (GIS)		4
Socio-humanistic/fine arts elective	3	

SUMMER: 5 Semester Hours

South Dakota School of Mines Field Camp (or acceptable substitute field camp)

FOURTH YEAR: 33 Semester Hours

Courses	Semester Hours	
	1st	2nd
Engineering 360, 361–Electric Circuit Theory; Laboratory	4	1
Civil Engineering 431–Soil Mechanics I		3
GE 302–The Professional Geological Engineer	1	
GE 400–Geomechanics	3	
GE 413–Geostatistics		3
GE 421, 422–Geological Engineering Design I, II	3	3
GE 460–Fundamentals of Waste Management	3	
Technical electives*	3	3
Socio-humanistic/fine arts elective		3

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 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:

* One elective must be selected from each of the following groups:
GROUP 1: GE 440, GE 500, GE 510, GE 513, GE 503, ChE 520, CE 531
GROUP 2: GE 405, GE 490, GE 507, CE 433, CE 471

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 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, mechanics, fluid mechanics, materials science, and thermal sciences.
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 creatively.
H. to prepare students for the lifelong learning that yields a successful career.

TOTAL SEMESTER HOURS: 130

FIRST YEAR: 34 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
University Studies 101–The University in Principle and in Practice	1	
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, 410–Engineering Analysis I, II	4	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		5
Mechanical Engineering 325–Intermediate Dynamics		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, and ME 535.

(b) Engineering elective B courses: ME 421, CE 521, ME 521, ME 522, ME 525, ME 530, ME 533, ME 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 three 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 128 semester hours of course work to include:

Courses	Semester Hours
University Studies 101	1
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

Telecommunications Path • This approach to the Bachelor of Engineering degree stresses science and technology, while providing a foundation knowledge in telecommunications to meet the need for qualified managerial and technical professionals in this rapidly expanding field. The curriculum provides a core knowledge in telecommunications fundamentals with an elective emphasis in options such as technical telecommunications, management information systems, and management and marketing. The student should consult with and obtain the approval of his/her academic adviser for the selection of the desired option courses.

Course Requirements • Candidates must successfully complete 130 semester hours of course work to include:

Courses	Semester Hours
University Studies 101	1
English 101, 102	6
Mathematics 261, 262, 263, 264, 353, 475	18
Chemistry 105, 106, 115, 116	8
Physics 211, 212, 221, 222	8
Computer Science 111, 251, 259, 361	12
Engineering 310, 313, 360, 361	12
Electrical Engineering 335, 336	4
Telecommunications 201, 210, 220, 405, 409, 415	16
Economics 202, 203, 307	9
Political Science 362 or equivalent	3
Humanities/fine arts and social sciences electives	18
Option courses	15

Law Center

COURT REPORTING PROGRAM

Janice K. Bounds, CRI, CPE chair

118 Law Center

(662) 915-7800

Bachelor of Court Reporting

The curriculum in court reporting is designed to provide interdisciplinary training, education, and the skills required by professional reporters in judicial and nonjudicial settings.

Courses other than options should be taken in the sequence shown. 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
History 105, 106–United States History or 101, 102–European History or philosophy or foreign language	3	3
Political Science 101–Introduction to American Politics	3	
Court Reporting 105–Machine Shorthand Theory	4	
Court Reporting 106–Elementary Machine Shorthand I		4
Court Reporting 103–Typewriting for Court Reporters[2]		3
Sociology 101, 102–Introductory Sociology	3	3
Mathematics 121–College Algebra or MATH 120 (Quantitative Reasoning)	3	

SOPHOMORE YEAR

Courses	Semester Hours	
	1st	2nd
Court Reporting 201, 202–Elementary Machine Shorthand II, III	4	4
Accountancy 201, 202–Introduction to Accounting Principles	3	3
Economics 202, 203–Principles of Economics	3	3
Speech 105–Business and Professional Speech*	3	
Biological Science 102–Inquiry into Life–Human Biology*	3	
Biological Science 103–Inquiry into Life–Human Biology Laboratory	1	
Political Science 271–Introduction to the Criminal Justice System		3
CSCI 192–Computing Applications		3

[1] Students scoring 26 or above on the English portion of the ACT or 650 or above on the verbal portion of the SAT may take the regular freshman ENGL 101-102 sequence or may elect to take ENGL 102 and ENGL 321 (Advanced Composition) to satisfy English composition course requirements.

[2] For graduation, a student must pass two unfamiliar material 5-minute keyboarding tests at 60 gross words per minute with a maximum of five errors.

JUNIOR YEAR

Courses	Semester Hours	
	1st	2nd
Court Reporting 301, 302–Intermediate Machine Shorthand I, II	4	4
Pharmacology 361, 362–Anatomy and Physiology of the Human Body or Biological Science 206, 207–Human Anatomy and Physiology	4	4
Psychology 201–General Psychology*		3
Business 250–Legal Environment of Business	2	
Business 271–Business Communication*		3
Political Science 473–Criminal Law I	3	

SENIOR YEAR

Courses	Semester Hours	
	1st	2nd
Court Reporting 401, 402–Advanced Machine Shorthand I, II[3]	4	4
Management 371– Principles of Management*	3	
Nonbusiness elective (200-level course or above)[4]	3	
Court Reporting 405–Grammar, Punctuation, and Vocabulary Development for Court Reporters		3
Marketing 351–Marketing Principles*	3	
Court Reporting 412–Court Orientation		3
Court Reporting 413–Internship in Court Reporting[5]		6

[3] For graduation a student must pass a minimum of three 5-minute tests on unfamiliar matter with at least 95 percent accuracy at the following speeds: 180 wpm literary, 200 wpm jury charge, and 225 wpm testimony.

[4] Elective must be taken outside the School of Business Administration.

[5] After completing Court Reporting 401, 405, and 412, an internship of at least 50 hours, of which a minimum of 40 hours shall be in actual writing time, must be completed. (Court Reporting 413).

Paralegal Studies

PARALEGAL STUDIES PROGRAM

Angie Williams, coordinator

Institute for Continuing Studies

E. F. Yerby Conference Center

(662) 915-7282

Courses are taught for this certificate program at the University's Oxford and Tupelo campuses. The University of Mississippi is a member of the American Association for Paralegal Education.

The Paralegal Studies Program is designed to qualify students to be employed in law-related occupations, including public and private law practice and/or activities related to corporate or government law. The course of study, offered to students seeking specialized training in law-related activities, leads to a certificate as a legal assistant.

To be eligible for admission to the program, a student must be admitted to The University of Mississippi.

Credit for general education courses may be granted for work completed at accredited institutions of higher learning and for courses studied by correspondence. Independent Study brochures and CLEP (College Level Examination Program) materials are available at The University of Mississippi, and evaluation of prior credits also is available through the University.

Adult nontraditional students with appropriate work experience may begin taking paralegal courses before completing all of the general education requirements, but students must complete all general education requirements before completing the final paralegal specialty course. Students who already have a bachelor's degree are exempt from the general education requirements.

To earn a certificate, a student must achieve a GPA of at least 2.00 in the legal assistant and general education courses. A student dismissed for academic reason will have the same rights of appeal as students in other University of Mississippi academic programs.

A minimum of 21 hours of legal assistant courses must be taken through The University of Mississippi. Only 3 of the final 12 hours of legal assistant courses may be transferred from another institution.

PARALEGAL CERTIFICATE REQUIREMENTS

General Education Requirements

Course Title/Description	Semester Hours
English 101, 102 (English Composition I, II)	6
English 321 (Advanced Composition)	3
Mathematics 121 (College Algebra) or higher	3
History (United States or Western Civilization)	3
Political Science 101 (Introduction to American Politics)	3
Sociology 101 (Introductory Sociology) or Psychology 201 (General Psychology)	3
Speech 102 (Fundamentals of Public Speaking) or Speech 105 (Business and Professional Speech)	3
Computer and Information Science 103 (Survey of Computing) or Computer and Information Science 191 (Office Applications) or Computer and Information Science 192 (Computing Applications)	3
Total General Education Semester Hours	27

All LA courses above LA 201 require English 101 and LA 201 as prerequisites.

REQUIRED LAW SPECIALTY COURSES

Course Title/Description	Semester Hours
LA 201 Introduction to Law	3
LA 204 Legal Research/Writing I	3
LA 205 Legal Research Writing II	3
LA 206 Business Organizations	3
LA 210 Real Property and Abstracting	3
LA 311 Administration of Wills and Estates	3
LA 321 Torts	3
LA 322 Commercial and Contractual Relations	3
LA 323 Criminal Law and Procedure	3
LA 400 Domestic Law	3
LA 404 Civil Litigation	3

LAW SPECIALTY ELECTIVES

(Student must take at least **one** elective.)

Course Title/Description	Semester Hours
LA 313 Law Office Management	3
LA 324 Administrative Law	3
LA 325 Alternative Dispute Resolution	3
LA 331 Bankruptcy Law	3
LA 332 Medical Law and Terminology	3
Total Law Specialty Semester Hours	36
TOTAL SEMESTER HOURS FOR CERTIFICATE	63

The School of Pharmacy

Robert David Sindelar, interim dean

Marvin C. Wilson, associate dean for academic and student affairs

Charles D. Hufford, associate dean for research and graduate programs

Alicia S. Bouldin, research assistant professor for instructional assessment and advancement

John J. Juergens, coordinator of student professional development

1018 Thad Cochran National Center for Natural Products Research

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 post-doctoral 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.

A discussion of the components of this mission statement can be found in the *School of Pharmacy Catalog* or on the School of Pharmacy's web site at www.olemiss.edu/depts/pharm_school/.

THE PROGRAM

The School of Pharmacy was created by the Board of Trustees 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 deliver pharmaceutical care successfully 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 other 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, 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, or marital, handicapped, 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 charted 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 Environmental and Community Health Research (listed below) as well as the Thad Cochran National Center for Natural Products Research (listed below).

Environmental and Community Health Research • The mission of the Environmental and Community Health Research initiative of the Research Institute of Pharmaceutical Sciences (ECHR-RIPS) is to improve health through the conduct of basic and applied multidisciplinary research and educational activities focused on the identification and resolution of problems related to health services utilization and environmental quality, and their relationships to health status. Programmatic research areas include pharmaceutical marketing and management, rural health, and environmental toxicology.

Thad Cochran 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 agrichemicals. 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.

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 is fully accredited 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 except two of the 1997, 1998, and 1999 graduates of the Doctor of Pharmacy program who had not previously received a professional practice degree 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.

It is necessary for every prospective registrant to 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 affected through the office of the secretary and executive officer, 625 North State Street, Second Floor, Jackson, Mississippi 39202.

Registered Pharmacy Students • All students who are desiring 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 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 the Thad Cochran National Center for Natural Products Research building and Faser Hall, a four-story structure comprising one of the units of the University Sciences Center. These facilities contain classrooms, laboratories, offices, and equipment used by the departments of Medicinal Chemistry, Pharmaceutics, Pharmacognosy, Pharmacology, Clinical 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 National Center for Natural Product Research, 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, etc., 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 catalog 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's 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.olemiss.edu/depts/pharm_school/.

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 pharmaceutics.

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 PHARMACY COMMUNICATIONS AWARD is given in recognition of excellence in promoting effective pharmacist/patient communication as a vital aspect of pharmacists service to their patients and community.

The SCHOOL OF PHARMACY AWARD FOR EXCELLENCE IN CLINICAL PHARMACY is presented to a graduating Doctor of Pharmacy student for outstanding performance during the experiential component of the educational experience and recognizes the student for demonstrating superior patient care skills.

The SCHOOL OF PHARMACY AWARD. The APhA-ASP Mortar and Pestle Professionalism Award is presented to one student at each of the schools and colleges of pharmacy who exhibits those characteristics inherent to a professional.

The SCHOOL OF PHARMACY AWARD FOR OUTSTANDING SERVICE is presented for outstanding service contributions to the School of Pharmacy and the pharmaceutical profession.

The SCHOOL OF PHARMACY AWARD FOR LEADERSHIP is presented for outstanding leadership within the School of Pharmacy and its organizations, as well as the University, and is awarded to a member of both the B.S. in Pharmaceutical Sciences and Doctor of Pharmacy graduating classes.

The SCHOOL OF PHARMACY AWARD FOR SCHOLARSHIP is presented to the B.S. in Pharmaceutical Sciences graduate achieving the highest grade-point average during the final two years of the Bachelor of Science in Pharmaceutical Sciences program and the Doctor of Pharmacy graduate achieving the highest grade-point average during the final four years of the professional program.

SCHOOL OF PHARMACY HALL OF FAME. The 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 one from the B.S. in Pharmaceutical Sciences graduating class (nonpractice track).

Professional Organizations • Students enrolled in the professional pharmacy program (Pl 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 of 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 • Student Records Privacy Act—Notification of Privacy Rights Under the Family Educational Rights and Privacy Act (General Education Provisions Act, Sec. 438, Pub. L. 90-247, Title IV, as Amended).

1. Subject to limitations specified in the Act, eligible students are assured the following rights pertaining to their educational records.
   A. The right to inspect and review their records, to request reasonable explanations and interpretations of them, and to obtain copies of them at their own expense. Students should submit to the registrar written requests that identify the record(s) they wish to inspect. The registrar will make arrangements for access and notify the students of the time and place where the records may be inspected. If the records are not maintained by the registrar, that official shall

advise the student of the correct official to whom the request should be addressed.

B. The right to seek correction of the records through a request to amend them or through a formal hearing. Students may ask the University to amend a record that they believe is inaccurate or misleading. They should, with the registrar, clearly identify the part of the record they want changed and specify why it is inaccurate or misleading. If the University decides not to amend the record as requested by the student, The University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment.

C. The right to control the disclosure of personally identifiable information from their records, except to the extent that FERPA authorizes disclosure without consent. One exception, which permits disclosure without consent, is disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

D. The right to file a complaint with the U.S. Department of Education concerning alleged failures by "State University" to comply with the requirements of FERPA. The name and address of the office that administers FERPA are:

Family Policy Compliance Office
U.S. Department of Education
600 Independence Avenue, SW
Washington, DC 20202-4605

2. The following information about eligible students will be treated as directory information and be subject to release.
   A. Name, home, and local address, published telephone listing, e-mail address, date of birth.
   B. School or college, classification (freshman, sophomore, junior, senior, graduate), dates of attendance, awards, degrees and honors and date graduated, and the most recent education agency or institution attended.
   C. Participation in officially recognized activities and sports, fraternity and/or sorority affiliation and educational societies, and vital statistics, such as height and weight, for member of the athletic teams.
3. Questions regarding records or the release of information may be directed to Registrar, 104 Martindale Center, University, Mississippi 38677.

School of Pharmacy Degree Programs

(More detailed information regarding the undergraduate/professional program is available in the *School of Pharmacy Student Handbook,* located online at www.olemiss.edu/depts/pharm_school/.)

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 Doctor of Pharmacy students signifying the beginning of the patient-intensive phase of the program. At this time, students sign the 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.

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 and to the Doctor of Pharmacy program.

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 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 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 available.

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 151 points being the maximum possible.

ACT + 10 x GPA	76	(assuming ACT of 36 and 4.0 GPA)
Interviews	40	
Essay	20	
Extracurricular Activities	15	
Total Possible	151	

Based on the composite admissions score, the top students will receive an offer of an annual $1,000 Early Entry Scholarship.

2. Application Process

For consideration for early entry, qualified students must submit 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, University of Mississippi, University, Mississippi 38677 by March 1. Student's are encouraged at the time of early entry application to submit separate official transcripts and a University application to the University Admissions Office.

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 (P-1). 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. Furthermore, students enrolled in these two courses or other formally designated honor's courses will receive 5, 4, 3 points respectively for an A, B, or C rather than the typical 4, 3, 2 in routine GPA calculations used 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 (P-2).

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 (P-3).

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 third year (P-3).

h. Candidates who select early entry 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 be reclassified as pre-pharmacy students and/or lose privileges of early-entry status.

4. Curriculum

FIRST YEAR (P1)

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
General Chemistry 105, 115	4	General Chemistry 106, 116	4
Biology 160, 161	4	Biology 162, 163	4
Speech 105	3	**Calculus I (MATH 261)	3
*Electives (*Nonprofessional.*)	3	*Electives (*Nonprofessional.*)	3
University Studies 101	1		
Total	18	Total	17

SECOND YEAR (P2)

First Semester	Hours	Second Semester	Hours
Organic Chemistry 221, 225	4	Organic Chemistry 222, 226	4
Accounting 201	3	Pharmaceutical Physics (PHYS 215)	4
Pharmacy Administration I (PHAD 391)	3	Pharmacy Administration II (PHAD 392)	3
Pharmacy Orientation (CLPH 350) (Z grade)	1	Pharmacy Ethics (PHIL 326)	1
Pharmaceutical Calculations (PHAR 330)	2	*Electives *(Nonprofessional)*	6
*Electives *(Nonprofessional)*	3	Total	18
Total	16		

*Nonprofessional electives are to be taken as follows: 6 hours social or behavioral sciences, 9 hours of humanities and fine arts as defined by The University of Mississippi 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. Therefore, 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	Second Semester	Hours
Human Physiology/ Pathophysiology I (PHCL 341)	5	Human Physiology/ Pathophysiology II (PHCL 342)	4
Basic Pharmaceutics I (PHAR 331)	4	Basic Pharmaceutics II (PHAR 332)	4
Biochemical Foundations of Therapy (PHCL 343)	3	Pharmacogenetics and Pharmacoimmunology (MEDC 317)	3
Professional Communications in Pharmacy (PHAD 490)	2	Principles of Medicinal Chemistry (MEDC 314)	3
Electives (*Professional*)	4	Laboratory Principles of Medicinal Chemistry (MEDC 315)	1
Total	18	Electives (*Professional*)	2
		Total	17

BEGINNING WITH THE 2001 ENTERING P3 CLASS, STUDENTS DESIRING TO COMPLETE THE PHARM.D. PROGRAM WILL BE REQUIRED TO COMPLETE TWO TWO-WEEK FULL-TIME ROTATIONS DURING THE SUMMER PRIOR TO AND SUBSEQUENT TO THE P4 YEAR.

FOURTH YEAR (P4)

Practice track curriculum for those who wish to pursue the Doctor of Pharmacy degree

First Semester	Hours	Second Semester	Hours
Basic and Clinical Pharmacology I (PHCL 443)	4	Pharmacology II (PHCL 444)	4
Medicinal Chemistry of Therapeutic Agents I (MEDC 411)	3	Medicinal Chemistry of Therapeutic Agents II (MEDC 412)	3
Pathogenesis and Etiology of Infectious Diseases (PHCG 421)	3	Natural Product Derived Pharmaceuticals (PHCG 422)	4
Pharmacy Practice I (CLPH 450)	2	Biopharmaceutics-Pharmacokinetics (PHAR 434)	3
Management (PHAD 493)	4	Pharmacy Practice II (CLPH 451)	2
Electives (*Professional*)	2	Pharmacy Practice III (CLPH 452)	1
Total	18	Pharmacy Law (PHAD 491)	2
Basic and Clinical		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 March 1. Applicants who are not University of Mississippi students must 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 March application date. Transcripts for the spring semester are to be submitted as soon as possible after completion of the spring semester. Applications will be reviewed and final decisions regarding admissions made by June 15.

Requests to transfer from students in good academic standing in programs at other ACPE-accredited schools of pharmacy will be considered on an individual basis. Such transfer can occur only 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 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. 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. All 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 2.5 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 March 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 employed the University of Mississippi Forgiveness Policy. This policy is not available to students enrolled in either the B.S. in pharmaceutical sciences program or Doctor of Pharmacy program.

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.

e. To be assured of consideration for admission to the B.S. Pharmaceutical Sciences program, a completed School of Pharmacy application and PCAT score must be received no later than March 1.

Students will be admitted on the basis of a composite admissions score determined by the following formula with a maximum possible score of 6.2.

Maximum GPA on required pre-pharmacy courses *(All grades inclusive)*	4.0
Maximum PCAT composite x 2 x (0.01)	2.0
UM factor*	0.2
Total possible	6.2

Completion of the minimum requirements will not ensure admission into the B.S. Pharmaceutical Sciences Program. Decisions regarding admissions to the B.S. Pharmaceutical Sciences Program will be based on policies established by the faculty. Preference will be given to United States citizens who are either residents of Mississippi or who are non-Mississippi students who completed their two years of 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.

*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. Progression and Retention Criteria 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.

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 or students who voluntarily withdraw for academic purposes during this same period, can be re-admitted to the program after a minimum period of a normal academic year (fall-spring). 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, i.e., PCAT score or GPA. The re-entering student must retake all required P3 courses. Grades obtained 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

FIRST YEAR

First Semester	Hours	Second Semester	Hours
English I	3	English II	3
General Chemistry I	4	General Chemistry II	4
+Biology I	4	+Biology II	4
Speech	3	**Calculus I	3
*Electives *(Nonprofessional)*	3	*Electives *(Nonprofessional)*	3
University Studies 101 (UM students only)	1		
Total	17-18	Total	17

*The 21 hours of nonprofessional electives must include 6 hours of social or behavioral sciences, 9 hours of humanities and fine arts as defined by The University of Mississippi with a minimum of 3 hours in each of these two general areas and 6 hours of general electives. Performance course credits are acceptable for the fine arts requirement.

**Elective credit will not be given for lower-level math courses (algebra, trigonometry) but will be accepted for precalculus).

+A two-semester laboratory sequence required of either biology majors or of pre-med students is required.

SECOND YEAR

First Semester	Hours	Second Semester	Hours
Organic Chemistry I	4	Organic Chemistry II	4
Accounting	3	Physics II	4
Physics I	4	*Electives *(Nonprofessional)*	9
*Electives *(Nonprofessional)*	6		
Total	17	Total	17

Correspondence courses may be accepted for elective credit (humanities, fine arts, social science, etc.).

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

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 (CLPH 350)—(Z GRADE)	1
Total	18

Second Semester

Human Physiology/Pathophysiology II (PHCL 342)	4
Basic Pharmaceutics II (PHAR 332)	4
Pharmacogenetics and Pharmacoimmunology (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

BEGINNING WITH THE 2001 ENTERING P3 CLASS, STUDENTS DESIRING TO COMPLETE THE PHARM.D. PROGRAM WILL BE REQUIRED TO COMPLETE TWO 2-WEEK FULL-TIME ROTATIONS DURING THE SUMMER PRIOR TO AND SUBSEQUENT TO THE P4 YEAR.

*The 21 hours of nonprofessional electives must include 6 hours of social or behavioral sciences, 9 hours of humanities and fine arts as defined by The University of Mississippi with a minimum of 3 hours in each of these two general areas and 6 hours of general electives. Performance course credits are acceptable for the fine arts requirement.

FOURTH YEAR (P4)

Practice Track Curriculum for those who wish to pursue the Doctor of Pharmacy degree

First Semester	
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 (CLPH 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 (CLPH 451)	2
Pharmacy Law (PHAD 491)	2
Pharmacy Practice III (CLPH 452)	1
Total	19

C. BACHELOR OF SCIENCES IN PHARMACEUTICAL SCIENCES NON-PRACTICE CURRICULAR CONCENTRATIONS

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;

» **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 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	
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

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 students' 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 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

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	17

Marketing Concentration

Anti-Infective Option

First Semester	
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 students' 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 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)

Other

ECON 301 Statistics (3)

» **PHARMACEUTICS** – A concentration leading to the B.S. degree 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 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 which 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	
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	
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

» **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	
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

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)

*Electives may be selected from the following list; other courses require prior approval by the departmental faculty.

» **PHARMACOLOGY/TOXICOLOGY** – A concentration leading to the B.S. degree 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 a 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) a cumulative three-year minimum GPA of 2.75 or approval of the faculty,
b) a 2.00 minimum GPA on all required courses through the third year of the B.S. in Pharmaceutical Sciences curriculum,
c) a C grade minimum on third-year PHCL courses and medicinal chemistry 317,
d) a letter of application including the reasons for selecting this track and the student's future goals, and
e) a successful personal interview by departmental faculty.

FOURTH YEAR (P4)

Pharmacology/Toxicology Concentration

First Semester

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 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 Products Derived Pharmaceuticals (PHCG 422, 4 hours)

Pharmaceutics: Biopharmaceutics-Pharmacokinetics (PHAR 434, 3 hours)

Psychology: Drugs and Behavior (PSY 411, 3 hours)

» **MEDICINAL CHEMISTRY** – A concentration leading to the B.S. degree 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 emphasized 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 this 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 P-3 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 credit hours), Organic Chemistry I, II (8 credit hours), Principles of Medicinal Chemistry (MEDC 314, 3 credit hours), and Laboratory Principles of Medicinal Chemistry (MEDC 315, 1 credit 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	
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

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 credit)

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)

*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.

D. 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 reviewed annually by the School of Pharmacy Instructional Technology Committee, the Clinical Pharmacy Practice Department in Jackson, and through 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/pharmschool. 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 receive the B.S. in Pharmaceutical Sciences diploma.

3. 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 prepare practitioners who can effectively participate in the pharmaceutical care practice model as defined below, (2) ensure the development of defined set of general and professional education 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 principals 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 and, in addition, to accurate distribution of drugs.

b. Abilities Based Curriculum

An ability is comprised of 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.

Communications 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 record, interview, psychomotor evaluation, evaluate and interpret patient data, apply knowledge of specified drugs, apply knowledge of specific physiologic systems, apply knowledge of specific disease pathology and comorbid conditions

Develop comprehensive patient-specific drug therapy plans

Apply understanding of indications for pharmacologic and nonpharamacology therapy, apply clinical reasoning skills in drug product selection, chemical entity, dosage formulation, develop appropriate dosing regimens which reflect application of knowledge of pharmaceutical calculations, initial dose, dose titration, 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, drug-procedure interaction, develop plans for patient education on drug therapy and healthy lifestyle alternative

Manage professional practice

Use resource management to maximize pharmacoeconomic outcomes, payment issues, personnel management. time management, technology, appropriately manage drug distribution, apply ethics and value systems to practice, personnel management, treatment choices, confidentiality, demonstrate entrepreneurial and intrapreneurial initiative, specialization, innovative reimbursement strategies, etc., 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., AA, 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 system

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:

- 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 which involve higher-level thinking skills. The commitment is based on the assumption that it is the development of these skills which 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 two years post-baccalaureate (B.S. in Pharmacy) academic work. The Doctor of Pharmacy degree also may be awarded to practitioners possessing a B.S. in Pharmacy degree after completing (in either a traditional or nontraditional pathway) additional didactic and experiential education.

Graduates of this program not previously receiving the B.S. in Pharmacy degree are eligible to sit for the licensure examination which must be successfully completed to practice the profession of pharmacy. The entry-level program is of two years (post receipt of the B.S. in Pharmaceutical Sciences/practice track degree) duration, the majority of which 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, qualified students must submit an application no later than March 1 of the year of anticipated entry into the program. Final admission will not occur until after graduation from the B.S. in Pharmaceutical Sciences (practice track) program. Applications for admission to the post-baccalaureate (B.S. in Pharmacy) Pharm.D. program must be submitted by March 1 preceding fall admission. Admission of the latter will be on a space-available basis and on the basis of prediction for academic success and of development of a progressive practice.

The nontraditional Doctor of Pharmacy degree program application process, admissions policy, as well as a detailed description of the program are located in that program's brochure.

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 P3 regular entry curriculum must be taken at The University of Mississippi in the sequence defined by the curriculum, with a minimum enrollment of 15 hours in required pharmacy courses in each regular semester session of the P3 and P4 years. Any exception must have prior approval by the department involved and by the Scholastic Standards Committee.
3. A GPA (calculated on all grades earned) of at least 2.75 on all pharmacy courses in the P3 regular entry curriculum and of at least a 2.75 GPA on courses in the P4 regular entry practice track curriculum.
4. Grades of at least C in each of the required pharmacy courses in the P3 regular entry curriculum and in all 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 apply for 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. All required P5 courses must be completed with a passing grade before students can participate in the P6 courses.

D. Curricular Philosophy (Refer to B.S. in Pharmaceutical Sciences section.)

E. Curriculum Entry-level Doctor of Pharmacy Program

The following is the curriculum for years five and six.

FIFTH YEAR (P5)

First Semester	
Pharmaceutical Care I (CLPH 576)	8
Pharmaceutical Care II (CLPH 577)	8
Pharmacy Grand Rounds I (Z) (CLPH 570)	1
Seminar Skills Development for Health Care Professionals I (Z) (CLPH 566)	1
Information Skills in Pharmacy Practice (Z) (CLPH 551)	1
Total	19
Second Semester	
Pharmaceutical Care III (CLPH 578)	8
Pharmaceutical Care IV(CLPH 579)	8
Pharmacy Grand Rounds II (Z) (CLPH 572)	1
Pharmacy Biomedical Ethics (Z) (CLPH 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 (CLPH 567) during one semester of the P6 year.

F. Curriculum (Post-baccalaureate Doctor of Pharmacy Program)

This degree is for adult learners previously receiving a B.S. in Pharmacy and can be obtained by traditional or nontraditional instructional delivery. The traditional program is outlined below. Participants in this program also must meet requirements D, E, F, and G for entry-level program participants and the computer requirements detailed for B.S. in Pharmaceutical Sciences students.

FIRST YEAR

First Semester	
Pharmaceutical Care I (CLPH 576)	8
Pharmaceutical Care II (CLPH 577)	8
Pharmacy Grand Rounds I (Z) (CLPH 570)	1
Seminar Skills Development for Health Care Professionals I (Z) (CLPH 566)	1
Information Skills in Pharmacy Practice (Z) (CLPH 551)	1
Total	19

Second Semester	
Pharmaceutical Care III (CLPH 578)	8
Pharmaceutical Care IV (CLPH 579)	8
Pharmacy Grand Rounds II (Z) (CLPH 572)	1
Pharmacy Biomedical Ethics (Z) (CLPH 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. 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 practice site of the student. Students also must register for Seminar Skills Development II (CLPH 567) during the fall semester of the P6 year.

The curriculum and other policies related to the nontraditional post-baccalaureate Doctor of Pharmacy program are detailed in a separate brochure describing that program.

G. Additional Program Requirements

1. Basic Life Support for the Health Care Provider (BLSHCP)

Prior to completing the P5 year, students are expected to present documentation of completion of Basic Life Support Training for the Health Care Provider. The costs of such training are the responsibility of the student. Listed below are a number of Mississippi locations that can provide this training.

American Heart Association – Mississippi Affiliate

Basic Life Support Community Training Centers:

American Medical Response, CTC coordinator: Mark Roberts, (228) 897-6697, Ext. 2015

Baptist Memorial Hospital Golden Triangle, CTC coordinator: Pam Foster, (601) 224-1495

Baptist Memorial Hospital North Mississippi, CTC coordinator: Carolyn Morton, (662) 232-8112

Biloxi Veterans Affairs Medical Center, CTC coordinator: Elaine LeGros, (228) 385-5739

Delta Regional Medical Center (contract pending), CTC coordinator: Ruthie Sweet, (601) 334-2164

Forest General Hospital, CTC coordinator: JoAnne Johnson, (601) 288-2677

Greenwood Leflore Hospital, contact: Walter Parker, (601) 459-2657

Hardy Wilson Memorial Hospital, CTC coordinator: Terri Rielley and Lisa Seale, (601) 894-4541

Hinds Community College, CTC coordinator: Rebecca Davidson, (601) 372-6507, Ext. 1107

Jeff Anderson Regional Medical Center, CTC coordinator: Lisa Bohne, (601) 553-6876

King's Daughters Hospital, CTC coordinator: Eric Stokely, (601) 835-9406

Magnolia Regional Health Center, CTC coordinator, Ruth Johnson, (601) 293-1205

Memorial Hospital at Gulfport (contract pending), CTC coordinator: Bill Ivey, (228) 865-3606

Mississippi Baptist Health Systems, CTC coordinator: Maria Folmar, (601) 968-1712

Mississippi Farm Bureau Federation, CTC coordinator: Mike Blankenship, (601) 977-4236

Mississippi Gulf Coast Community College, CTC coordinator: Norma Jane Richards, (228) 897-3713

Mississippi State Fire Academy, CTC coordinator: Steven Bardwell, (601) 932-2444

Natchez Regional Medical Center, CTC coordinator: Lana Powell-Morgan, (601) 443-2592

North Mississippi EMS Authority, CTC coordinator: Charles Morris, (662) 844-5870

North Mississippi Medical Center, CTC coordinator: Pamela Ratliff, (662) 841-3448

Northwest Mississippi Community College, CTC coordinator: Melinda Jenkins, (662) 562-3986

Oktibbeha County Hospital, CTC coordinator: Pat Kelly, (601) 338-1765

Parkview Regional Medical Center, CTC coordinator: Tammye Hughes, (601) 631-2534

Rankin Medical Center, CTC coordinator: Marie Bagwell, (601) 824-8539

Rush Foundation Hospital, CTC coordinator: Sandra Wiggins, (601) 482-9323

Singing River Hospital System, CTC coordinator: Tammy McHann, (228) 938-5108

SOS Technologies, CTC coordinator: Clay McPherson, (601) 853-6700

South Central Regional Medical Center, CTC coordinator: Lynn Henley, (601) 399-0521

Southwest Mississippi Regional Medical Center, CTC coordinator: Charles Dykes, (601) 249-0529

University of Mississippi Medical Center, CTC coordinator: Dee Howard, (601) 984-5559

Wesley Medical Center, CTC coordinator: Barbara Hayman, (601) 268-8165

Students should make every effort to contact instructors well in advance in the event that arrangements must be made to obtain training at an alternate site.

Students also may wish to contact the American Red Cross and their local (hometown) hospitals for other class offerings.

Students should be trained in basic life support for the health care provider. This includes: (1) CPR for the adult, child, and infant, (2) management of foreign-body airway obstruction in the adult, child and infant, and (3) automated external defibrillators.

2. Immunizations

Post-baccalaureate Doctor of Pharmacy (traditional) 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 Pharm.D. program. 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. The student is responsible for assuming all costs incurred in receiving the immunizations.

Students also will be required to have a PPD test (negative X-ray if previously PPD positive) prior to beginning P6 rotations. P5 students who wish to shadow P6 students during clerkships also must have a PPD test prior to beginning the shadowing experience. Students having a positive PPD test must, by negative chest X-ray, demonstrate lack of an active case of tuberculosis or 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 experiential year in order to advance to further rotations.

3. Liability (Malpractice) Insurance

Each Pharm.D. student (AT THE STUDENT'S EXPENSE) will be required to offer proof, e.g. a photocopy of the certificate of insurance with dates of coverage included, of personal/professional liability coverage ($1 million per individual claim, $3 million per incident) prior to beginning and extending through the completion of the experiential component of their curriculum. Many students purchase such coverage through ASP. It also is available from other vendors, e.g., Maginnis and Associates, Pharmacists Mutual, at competitive prices.

Although the requirement to possess such insurance does not occur until the latter part of the curriculum, if you are employed as an extern by a pharmacy during the time you are enrolled in pharmacy school, then you are strongly encouraged to obtain such coverage. Although the institution or pharmacy in which you may work will have coverage for their employees, many of these policies permit the insurer to recover from the individual once the insurer has had to pay a claim against the pharmacy.

4. Medical/Hospitalization Insurance

Hospitalization/medical insurance is required of all students enrolled in P5 and P6 courses. Coverage is available through a Blue Cross plan available to 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. 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 students must present proof of 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 to 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. This fee is in addition to payment of School of Pharmacy Student Body dues and is in lieu of paying an Oxford campus activity fee.

The Medical Center

A. Wallace Conerly, M.D., vice chancellor for health affairs
The University of Mississippi Medical Center, Jackson

More detailed information on the Medical Center and its four schools is given in the *Bulletin of The University of Mississippi Medical Center*, copies of which are available from the Division of Student Services and Records, The University of Mississippi Medical Center, 2500 North State Street, Jackson, Mississippi 39216. Send e-mail inquiries to dgreen@registrar.umsmed.edu or call (601) 984-1080. Visit the Medical Center's web site at www.umc.edu.

The Campus • The University of Mississippi Medical Center includes schools of Medicine, Nursing, Health Related Professions and Dentistry; Graduate Programs 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

A. Wallace Conerly, 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 through The University of Mississippi Graduate School in conjunction with the School of Medicine. 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 Division of Student Services and Records 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 Services and Records, 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 September entering class will be accepted beginning June 15 of the previous year and should be completed by Nov. 1 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.

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, or (4) course credit granted without college-level testing.

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 $6,938 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 $6,000 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

Anne G. Peirce, 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.

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. Registered nurses have the option to seek advanced standing through validation examinations. 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 is $2,478 per year. An additional fee of $2,820 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, ACT scores, and reference letters must be completed and in the Registrar's Office no later than December 15 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, which may include an interview if requested by the Admissions Committee. 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

J. Maurice Mahan, 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, clinical laboratory sciences, and occupational therapy. A Master of Physical Therapy degree is offered, as well. A certificate program is available in emergency medical technology. The school initiated a graduate program in clinical health sciences in 1994. There is a $10 application fee for each of these programs.

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 $2,478 for state residents and $5,298 for nonresidents. Tuition and fees for the 12-month programs in occupational therapy and physical therapy are $3,468 for state residents and $6,128 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 intermediate and/or paramedic level of emergency medical technology. One class is admitted each summer, and students who satisfactorily complete program requirements are eligible to sit for the respective certification examination by the National Registry of Emergency Medical Technicians. Admission requirements for the intermediate, paramedic, or combined programs are listed in the *Bulletin of The University of Mississippi Medical Center.* The tuition fee for state residents is $821 per year for the combined program, $318 for the EMT-I program, and $503 for the EMT-P. Nonresidents pay an additional $1,676 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 63 semester hours of acceptable college education that meet minimal course requirements as stated in the *Bulletin of The University of Mississippi Medical Center.*

Occupational Therapy • The educational program in occupational therapy is a two-year, upper-division program. One class is admitted each summer. Admission requirements are 64 semester hours of transfer credit which meet minimal course requirements as stated in the *Bulletin of The University of Mississippi Medical Center.*

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 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 $176 per year and a yearbook fee. 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.

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 from an accredited institution of higher learning with completion of the required courses. There is no tuition fee. Students pay an activity fee of $276 per year.

Application Procedure • Applications for any of these programs may be obtained upon request from the Division of Student Services and Records, The University of Mississippi Medical Center, 2500 North State Street, Jackson, Mississippi 39216. There is a $10 application fee.

The School of Dentistry

Perry McGinnis, Jr., D.D.S., 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 Division of Student Services and Records.

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 Division of Student Services and Records, The University of Mississippi Medical Center, 2500 North State Street, Jackson, Mississippi 39216. Applications must be completed by March 1 before the scheduled date of registration in August. All applicants must receive letters of acceptance before presenting themselves for registration. There is a $10 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 December 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 • The applicant must take the Dental Admission Test that is given two times a year in most senior colleges and at The University of Mississippi Medical Center. 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[1]	4
Behavioral sciences (sociology, psychology, anthropology)	2
Inorganic Chemistry	2
Organic Chemistry	2
Advanced chemistry or biology[2]	1
Physics	2
Biology or zoology	2
Mathematics (algebra, trigonometry, or analytical geometry)	6

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 $5,581 per student per year. This tuition payment includes registration and activity fees. An additional fee of $6,360 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.