Although the publisher of this Bulletin has made every reasonable effort to attain factual accuracy herein, no responsibility is assumed for editorial, clerical, or printing errors or error occasioned by honest mistakes. This bulletin presents information, which, at the time of preparation for printing, most accurately describes the course offerings, policies, procedures, regulations and requirements of the University. However, it does not establish contractual relationships. The University reserves the right to alter or change any statement contained herein without prior notice, including any programs, etc.

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Mississippi State University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097: Telephone number 404-679-4501) to award bachelor’s, master’s, educational specialist’s and doctoral degrees.

Accreditation Board of Engineering and Technology
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    (Formerly Computer Sciences Accreditation Board)
Accreditation Council for Cooperative Education
American Alliance of Health, Physical Education, Recreation
  and Dance-National Association of Sports Physical Education
American Animal Hospital Association
American Assembly of Collegiate Schools of Business
American Association of Family and Consumer Sciences
  (formerly American Home Economics Association)
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National Association of Schools of Art and Design
National Association of Schools of Music
National Association of Schools of Public Affairs and Administration
National Council for Accreditation of Teacher Education
Society of American Foresters
Society of Wood Science and Technology
The Wildlife Society

Also, Mississippi State University maintains affiliations with numerous other national associations including the American Council on Education, the Council of Graduate Schools, and the National Association of State Universities and Land Grant Colleges.

**DISCLAIMER**

Each student is responsible for completing all requirements established for his or her degree by the University, college, and department. It is the student's responsibility to learn these requirements; a student's advisor and counselor may not assume that responsibility.

Any substitution, waiver, or exemption from any established departmental or college requirement or academic standard may be accomplished only with the approval of the student's dean. Exceptions to University requirements, including the general education (core) requirements, will be authorized only with the approval of the student's dean and the Office of Academic Affairs.
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MISSISSIPPI STATE UNIVERSITY
CORRESPONDENCE DIRECTORY

The Office of Graduate Studies
P.O. Box G
116 Allen Hall
Mississippi State, MS 39762
E-Mail grad@grad.msstate.edu
Website: www.msstate.edu/dept/grad
Telephone: 662-325-7400
Fax: 662-325-1967

For information regarding admissions, application status, academic records, and graduation.

The Office of the Registrar
P.O. Box 5268
Garner Hall
Mississippi State, MS 39762
Website: www.msstate.edu/dept/registrar
Telephone: 662-325-2022

For information regarding Mississippi State University transcripts.

Assistantships
Please contact the appropriate department.

Other Financial Aid
Student Financial Aid
P.O. Box 6035
Garner Hall
Mississippi State, MS 39762
Website: www.sfa.msstate.edu
Telephone: 662-325-2450

Housing
Housing and Residence Life
P.O. Box 9502
Herbert Hall
Mississippi State, MS 39762
Website: www.housing.msstate.edu
Telephone: 662-325-3555

International Student Advisement
International Services Office
P.O. Box 9742
15 Morgan Avenue
Mississippi State, MS 39762
Website: www.iso.msstate.edu
Telephone: 662-325-8929

Students at Mississippi State University are responsible for knowing and complying with all requirements for their respective degrees as stated herein.

Nondiscrimination Policy
Mississippi State University does not discriminate on the basis of race, color, religion, national origin, sex, sexual orientation or group affiliation, age, disability, or veteran status.
CRITICAL DATES FOR GRADUATE STUDENTS

Please refer to departmental listings in this publication for program specific admission deadlines.

FALL SEMESTER 2005

University Dates

Admission application..........................July 1*
Registration..........................................August 16-17
Classes begin.........................................August 18
Application for degree..........................October 14
Final examinations............................December 5-9
Commencement Ceremonies....................December 9-10

Last day to submit signed examination results to Office of Graduate Studies......April 7
Last day for final submission of thesis or dissertation to the Library..............April 28

Thesis or Dissertation

Last day for thesis/dissertation defense and non-thesis comprehensive examination..............................November 4
Last day for first submission of thesis/ dissertation to the Library....................November 11
Last day to submit signed examination results to Office of Graduate Studies..............November 11
Last day for final submission of thesis or dissertation to the Library..............December 2

SUMMER SESSION 2006

University Dates

First Term

Admission application..........................April 1*
Registration............................................May 30
Classes begin.............................................May 31
Application for degree............................June 15
Final examinations......................................June 29-30

Second Term

Admission application............................May 1*
Registration.............................................July 5
Classes begin.............................................July 6
Final examinations......................................August 3-4
Graduation (no commencement ceremony)..............................................August 5

Thesis or Dissertation

Last day for thesis/dissertation defense and non-thesis comprehensive examination..............................June 30
Last day for first submission of thesis/ dissertation to the Library..............July 7
Last day to submit signed examination results to Office of Graduate Studies......July 7
Last day for final submission of thesis or dissertation to the Library..............July 21

*Applications received after this date will not guarantee admission for the next academic term.

All dates subject to change without prior notice.

SPRING SEMESTER 2006

University Dates

Admission application............................November 1*
Registration.............................................January 6-9
Classes begin.............................................January 10
Application for degree............................February 28
Final examinations.....................................May 1-5
Commencement Ceremonies..........................May 6

Last day to submit signed examination results to Office of Graduate Studies......April 7
Last day for final submission of thesis or dissertation to the Library..............April 28

Thesis or Dissertation

Last day for thesis/dissertation defense and non-thesis comprehensive examination..............................March 31
Last day for first submission of thesis/ dissertation to the Library....................April 7

*Applications received after this date will not guarantee admission for the next academic term.

All dates subject to change without prior notice.
Please refer to departmental listings in this publication for program specific admission deadlines.

**FALL SEMESTER 2005**

All dates subject to change without prior notice.

International Teaching Assistant Workshop..........................August 2, 3, 4, 5, 8

General Teaching Assistant Workshop.................................August 10-11

Final registration and payment of fees...............................August 16-17

New graduate student orientation........August 15

Classes begin.............................................August 18

Last day for registration or adding a course .......................August 24

Last day to drop a course without a grade .........................August 31

Labor Day Holiday........................................September 5

Last day to drop a course with a “W” .........................September 29

Last day to apply for a degree................................October 14

Fall Break................................................October 17-18

Faculty advising for preregistration..........................October 25-November 2

Last day for doctoral comprehensive/preliminary examination for May graduation........November 1

Last day for completing admission process for spring semester........November 1

Preregistration for spring semester..................November 3-11

Last day for thesis/dissertation defense........................November 4

Last day for submitting examination results .....................November 11

Last day for first submission of thesis/dissertation to the Library........November 11

Last day to withdraw from the University....................November 15

Thanksgiving Holidays........................November 23-25

Classes resume........................................November 28

Last day for submitting Library-approved thesis/dissertation to the Library.....December 2

Classes end..............................................December 2

Final examinations................................December 5-9

Commencement Ceremonies....December 19, 10

Winter Holidays..........................December 20-30

**SPRING SEMESTER 2006**

New graduate student orientation........January 5

Final registration and payment of fees .....................January 6-9

Classes begin........................................January 10

Martin Luther King Holiday.................................January 16

Last day for registration or adding a course ..................January 17

Last day for dropping a course without a grade .................January 24

Last day for doctoral comprehensive/preliminary examination for August graduation.....................February 1

Last day to drop a course with a “W”........................February 21

Last day to apply for a degree........................February 28

Midsemester Holidays ..............March 13-17

Classes resume..........................March 20

Faculty advising for preregistration........................March 21-29
Registration for summer and fall semesters .................. March 30- April 7

Last day for thesis/dissertation defense ................................................................. March 31

Last day for completing admission process for first term of summer school ......................................................... April 1

Last day for submitting examination results ......................................................... April 7

Last day for first submission of thesis/dissertation to the Library ........ April 7

Last day to withdraw from the University ......................................................... April 13

Spring Holiday .................................................................................. April 14

Last day for submitting Library approved thesis/dissertation to the Library ......................................................... April 28

Classes end .......................................................................................... April 28

Last day for completing admission process for second term of summer school ......................................................... May 1

Final examinations ........................................................................ May 1-5

Commencement Ceremonies ......................................................................... May 6

SUMMER SESSION - 2006

FIRST TERM

Memorial Day Holiday .................................................. May 29

Registration ................................................................. May 30

Last day for doctoral comprehensive/preliminary examination for December graduation ......................... June 1

Classes begin .............................................................................. May 31

Last day for registration, adding or dropping a course without a grade ......................................................... June 2

Last day for dropping courses with a “W” ........................................... June 19

Last day to apply for a degree ......................................................... June 15

Last day to withdraw from the University ......................................................... June 21

Classes end ................................................................................. June 28

Final examinations ................................................................. June 29-30

SECOND TERM

Last day for completing admission process for Fall semester ......................................................... July 1

Last day for thesis/dissertation defense ......................................................... June 30

Independence Day Holiday ......................................................... July 4

Registration ................................................................. July 5

Classes begin .............................................................................. July 6

Last day for submitting examination results ......................................................... July 7

Last day for first submission of thesis/dissertation to the Library ......................................................... July 7

Last day for registration, adding or dropping a course without a grade ......................................................... July 10

Last day for dropping courses with a “W” ........................................... July 25

Last day for submitting approved thesis/dissertation to the Library ......................................................... July 21

Last day to withdraw from the University ......................................................... July 26

Classes end ................................................................................. August 2

Final examinations ........................................................................... August 3-4

Graduation (no commencement ceremony) ......................................................................................... August 5

TEN-WEEK TERM

Memorial Day Holiday .................................................. May 29

Registration ................................................................. May 30

Classes begin .............................................................................. May 31

Last day for registration, adding or dropping a course without a grade ......................................................... June 7

Independence Day Holiday ......................................................... July 4
Last day for dropping courses with a "W"...............................July 14

Last day to withdraw from the University ............................July 26

Classes end..............................................................August 2

Final examinations .................................................August 3-4

Commencement (no ceremony) .................................August 5

NOTES
Officers of the Board

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The Board maintains offices at
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***

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SARA M. FREEDMAN, Ph.D. .................................................. Dean of the College of Business and Industry
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MARK BINKLEY, Ph.D. .............................................................. Director of Academic Outreach and Continuing Education
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VANCE H. WATSON, Ph.D. ............................................. Dean of the College of Agriculture and Life Sciences
JAMES L. WEST, M. Arch. .................................................. Dean of the College of Architecture, Art, and Design

The Office of Graduate Studies

WILLIAM A. PERSON, Ed.D. .............................................................. Director
RITA A. BURRELL, B.A. .......................................................... Coordinator of Graduate Studies Admissions and Records

Mr. Carson C. Cook, Affirmative Action/Equal Opportunity Officer, 221 McArthur Hall, P.O. Drawer 6199, Mississippi State, MS 39762, office telephone number 662-325-2493, has been designated as the responsible employee to coordinate efforts to carry out responsibilities and make investigation of complaints relating to discrimination. This is in conformity with Title IX of the Education Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, Section 402 of the Vietnam Era Veterans Readjustment Assistance Act of 1974, and the Americans with Disabilities Act of 1990.
The Graduate Council is the executive committee of the Graduate Faculty and is responsible for the formulation of academic policy and programs related to graduate study at Mississippi State University. In addition, the Council may advise the Director of Graduate Studies on any matter they, or the Director, feel is appropriate. The Chairperson of the Graduate Council is elected by and from the members of the Council.

The Council consists of one elected member from each of the eight academic colleges offering graduate study (programs), and one less in number (seven) appointed by the Provost and Vice President for Academic Affairs. Not more than two appointed faculty members may be from the same college or school. To be eligible for membership on the Council, members must have Level 1 status on the Graduate Faculty. The term of office is three years. A vacancy on the Council is filled in the same manner in which the member vacating the position was selected.

In addition to the faculty, the Council has one graduate student representative who is usually the president of the Graduate Student Association. She/he is a voting member, and the term of office is one year.

Ex officio members of the Graduate Council include the Director of Graduate Studies, Graduate Studies Manager, Associate Provost of Academic Affairs, Vice President for Research and Graduate Studies, Dean of University Libraries, and Director of Continuing Education.

THE GRADUATE COUNCIL

Thomas Hosie, Ph.D., 2006, Appointed, Chair
Professor of Counseling, Educational Psychology, and Special Education and Department Head

Barbara Spencer, Ph.D., 2006, Appointed, Vice Chair
Professor of Management and Director of Graduate Studies in Business

Members Elected By the Graduate Faculty

Louis R. D’Abramo, Ph.D., 2006
Professor of Wildlife and Fisheries

Susan Bridges, Ph.D., 2006
Professor of Computer Science

Gregory Dunaway, Ph.D., 2006
Professor of Sociology

Lora A. Ballweber, D.V.M., 2007
Associate Professor of Veterinary Medicine

Connie M. Forde, Ph.D., 2007
Professor of Instructional Systems, Leadership, and Workforce Development

Ronald D. Taylor, Ph.D., 2007
Professor of Marketing, Quantitative Analysis, and Business Law

Larry R. Barrow, D.Des., 2008
Associate Professor of Architecture

Scott T. Willard, Ph.D., 2008
Assistant Professor of Animal and Dairy Sciences
Members Appointed

Erich B. Bergiel, 2006
Graduate Student Representative

Daniel Reynolds, Ph.D., 2006
Professor of Plant and Soil Sciences

John A. Boyle, 2007
Professor of Biochemistry and Molecular Biology

Ratnasingham Shivaji, Ph.D., 2007
Professor of Mathematics and Statistics

Dwayne A. Wise, Ph.D., 2008
Professor of Biological Sciences

Ex Officio Members

Mark S. Binkley, Ph.D., Ex Officio
Dean of Academic Outreach and Continuing Education

Phil Bonfanti, Ph.D., Ex Officio
Director of International Services

Rita A. Burrell, B.A., Ex Officio
Coordinator of Graduate Studies Admissions and Records

Tim Chamblee, Ph.D., Ex Officio
Associate Professor of Poultry Science; Chair of University Committee on Courses and Curricula

Frances N. Coleman, M.L.S., Ex Officio
Dean of Libraries

Jerome A. Gilbert, Ph.D., Ex Officio
Associate Provost

William A. Person, Ed.D., Ex Officio
Director of Graduate Studies and Professor of Curriculum and Instruction

Colin G. Scanes, Ph.D., Ex Officio
Vice President for Research and Graduate Studies
HISTORY

Established in 1878 under the Morrill-Nelson Land-Grant College Act of 1862, Mississippi Agricultural and Mechanical College functioned with a defined mission to provide higher education to Mississippi students, primarily in the fields of agriculture and engineering. As a Land-Grant College, a secondary mission was to train reserve officers for the U.S. Army. Departments in the academic disciplines such as mathematics, physical sciences, biological sciences, English, history, government, and languages were developed to provide a more generalized college curriculum for all students.

In the early years, some science departments granted a few master’s degrees, but the primary emphasis of the College was to educate young men for careers contributing to the agrarian society, either in farming or in agricultural products processing and manufacturing. Little oversight of post-graduate programs existed until a Graduate Committee of the General Faculty was established in 1914. The committee functioned until 1936, when it was recognized that more quality oversight was needed. The Graduate School was established, a graduate dean appointed, and graduate education became an integral part of Mississippi State College (MSC). Degrees in the former “service departments” were offered as the Colleges of Arts and Sciences, Business, and Education evolved.

As graduate study expanded in the colleges and universities of the South following WWII, the Conference of Deans of Southern Graduate Schools exerted a strong positive influence for maintenance of the quality of the new graduate offerings. The graduate dean at Mississippi State became a key member of the Conference, and his concerned guidance in program development at MSU resulted in the establishment of several strong research-based doctoral programs. The first doctoral degree granted was in agronomy in 1953 followed by sociology and later engineering.

Sputnik changed the face of graduate education and university research throughout the nation in 1958. The overwhelming national concern for science, technology, humanities, and the arts, resulted in Congressional support for graduate fellowship programs that emerged in the 1960s. In 1960 a new president came to the now Mississippi State University (MSU) and created a new administrative infrastructure in 1961, which positioned the University to make successful proposals for fellowships, research equipment and facilities, and faculty research support awards. An Office of Research and Graduate Studies was created, headed by the Dean of the Graduate School and Coordinator of Research. A strong Graduate Council was established with the power to enforce quality criteria for existing graduate program offerings and to ensure criteria were met by proposed new programs. All graduate programs received approvals from the Graduate Council, the Academic Council, the President, and the Board of Trustees of the Mississippi Institutions of Higher Learning. Graduate programs at MSU flourished with support received from the competitive institutional fellowship award programs funded by NSF, NASA, the Office of Education, and DOD. As new doctoral faculty was recruited and the contract research program expanded, additional doctoral programs, specialized institutes, and centers were approved and created. The title of Dean of the Graduate School and Coordinator of Research was changed to Vice President for Research and Graduate Studies in 1969; the Associate Dean became Dean of the Graduate School.

In 1987, because of the rapidly expanding research activity and the increase in graduate enrollment, the Graduate School was separated from the Office of Research and administratively reported to the Provost. In 1999, in a move to simplify graduate admissions and day-to-day operational matters, The Graduate School as such was abolished, and replaced by an Office of Graduate Studies with a Director, reporting to the Provost’s Office. Effective July 1, 2004, the Office of Graduate Studies was realigned with the Office of Vice President for Research and Graduate Studies. The Graduate Council remains as the chief oversight body for all graduate programs. The Office of Graduate Studies functions to maintain admissions records and to promote student services, while the policies of the Graduate Council are administered by the departments and colleges. Off-campus master’s degree programs are now offered in specialized areas at various locations inside and outside of the State.
Mississippi State University is a member institution of the Council of Graduate Schools in the U.S. and the Conference of Southern Graduate Schools. Through active participation in these bodies, the leadership for graduate studies at MSU is involved with developments on the national scene, including federal programs for support of graduate education and research. The current research expenditures at MSU exceed $100 million per year, a significant portion of which is support for graduate research assistants. Teaching assistantships are available in most academic departments.

**MISSION STATEMENT**

The Graduate Studies Mission is to:

- provide graduate students advanced academic study beyond the baccalaureate;
- provide graduate students opportunities in which to develop methods of independent and systematic investigation; and
- to provide graduate students and faculty with an environment conducive to learning and scholarly activities.

In fulfilling this mission, the Office of Graduate Studies will promote, enhance, develop, and monitor graduate studies at Mississippi State University and provide individuals with effective, efficient, and courteous assistance in admission, registration, academic progress, graduation, and post-graduation services.

**INSTITUTIONAL PURPOSE**

Mississippi State University was founded as a land-grant institution in 1878 to meet the needs of the people, institutions, and organizations of the state, the region, and the nation through undergraduate and graduate education, basic and applied research, and service to institutions and organizations. The University’s fundamental purpose is to develop knowledgeable and skilled people who engage in the pursuit of intellectual truth, help constitute an informed electorate, and contribute to economic growth and prosperity. Mississippi State University is committed to performing basic research to expand the bounds of knowledge, to using applied research to translate knowledge into practice, to providing service to institutions and organizations, and to providing education to its students.

**Academic Freedom and Responsibility**—Freedom of inquiry and expression is fundamental to the idea of a university and to a democratic society. Mississippi State University affirms this principle and vigorously defends it. At the same time, faculty are obligated to exercise good judgment, to maintain the highest professional and personal standards of intellectual integrity, and to ensure that the free exchange of ideas is marked by both accuracy and relevance of information to the subjects or issues under consideration. Mississippi State recognizes the value of diverse opinions in decision making and pursues its mission in an atmosphere of shared governance and open communication. Faculty and staff are involved in policy formulation and in implementing the learning, research, and service missions of the University. Faculty and staff also recognize their shared accountability for the performance of the university in carrying out its mission.

**Curricular Offerings**—Mississippi State offers high quality education at the bachelor’s, master’s, educational specialist, professional, and doctoral levels. The University offers a liberal education for all students in a broad-based curriculum of the sciences, the arts, and the technological disciplines to prepare them for productive careers and positions of leadership. Methods of inquiry and critical thinking are emphasized to prepare students to solve complex societal problems and to engage in lifelong learning and exploration. As a comprehensive land-grant university, Mississippi State University serves both in-state and out-of-state students through instruction in engineering and agriculture, along with significant elements of the humanities, sciences, arts, business, and education. Besides a comprehensive range of undergraduate academic programs, the University offers outstanding graduate programs, capitalizing on the unique ability of a research university to expand the horizons of its students.

**Educational Philosophy**—Mississippi State University's primary responsibility is to provide a high quality educational opportunity to all adequately prepared students in the state and region. The University seeks to develop in its students a lifelong love of learning; an appreciation of the cultural, intellectual, and historical impact of the search for truth and knowledge; the opportunity for professional specialization; and emotional and social development through out-of-class experiences. All students are expected to master the skills that enable them to communicate clearly, to use mathematics, and to understand their cultural heritage and that of others. The University seeks to develop in its students the ability to think independently, to accept responsibility, to interact with people different from themselves, to assess ideas, to challenge orthodoxies, and
to criticize opinions in order to achieve the intellectual, ethical, and aesthetic maturity expected in educated citizens. Mississippi State affirms the right of all students to achieve an educational level limited only by their own commitment and ability.

Research—Research is an integral part of the mission of Mississippi State. It expands the frontiers of human knowledge and provides practical applications of accumulated knowledge. The University fosters an environment in which faculty, together with students, can establish and maintain high quality research. The University makes available the results of its research to improve the well being of the citizens of the state and to enhance the competitiveness of the state and nation in a global society. Research is essential to the instructional mission of the University. It brings state-of-the-art knowledge into the classroom and inspires superior undergraduate and graduate teaching and learning.

Responsibility to Constituencies—Mississippi State is responsive to numerous and rapidly changing constituencies. The University provides rigorous education to the state’s citizens, preparing students for careers and positions of leadership in state, regional, national, and world institutions and organizations. Mississippi State’s public service mission stresses problem-solving, economic development, social and ethical responsibility, and aesthetic awareness among the individuals, governments, businesses, and communities it serves. Recognizing its legal and ethical responsibilities, the university is committed to enhancing the cultural, artistic, and intellectual life of these multiple constituencies. This commitment includes sharing expertise through cooperative extension, technical assistance, professional development, and technology transfer.

LOCATION
Mississippi State University adjoins the city of Starkville, which is 25 miles west of Columbus and 120 miles northeast of Jackson. Highways 82, 12, and 25 provide easy access to the University. Air service is available through the Golden Triangle Regional Airport located between Starkville and Columbus. The University has its own postal designation and zip code: Mississippi State, MS 39762. The zip code of Starkville is 39759.

DEFINITIONS

Academic Degree—Degree is the title to be conferred by the University upon completion of the academic program. Some degrees include the name of the field of study (Master of Landscape Architecture, Master of Professional Accountancy). Others (Master of Arts, Master of Science) do not.

Graduate Program—The program is the primary field of study of a graduate student, i.e., the student’s major. Programs offered at Mississippi State University are approved by the Graduate Council and the Board of Trustees of State Institutions of Higher Learning. The program name along with the degree appears on the student’s transcript.

Concentration—At the graduate level, the concentration is a subprogram offered within a graduate major. Each concentration is approved by the Graduate Council. The concentration, as well as the degree and program, may appear on the student’s transcript.

Minor—A minor is a current block of course work completed at Mississippi State University in a department program or approved concentration other than the major department program and must be approved for master’s, educational specialist, or doctoral programs as listed in this publication (per Graduate Council March 2005). If a minor is chosen, the student’s graduate committee must include a representative from the minor field and the graduate coordinator from the minor field must sign approval of course work. The minimum number of credit hours required for a master’s minor is nine. The minimum number of credit hours required for a doctoral minor is 12. The minor appears on the student’s transcript along with the program name and the degree awarded.

Graduate Certificate—A department or similar administrative unit may offer a graduate certificate along with a graduate degree. The certificate indicates that the student took a minimum of 12 hours of courses in an approved certificate area. The student must achieve a minimum GPA of 3.00. Graduate certification programs include:

1. Geospatial and Remote Sensing Engineering. Coordinator: Dr. David Shaw. Email: dshaw@gsi.msstate.edu.
2. Gerontology. Coordinator: Dr. Sheri Lokken Worthy. Email: slokken@humansci.msstate.edu.
Interdisciplinary Programs—When one degree program is offered through more than one college, it is referred to as an interdisciplinary program.

Dual Degrees—An applicant may apply and be admitted to more than one degree program. This requires prior approval of each department. If the student is approved to pursue two master’s degrees, no more than nine hours of course work from one MSU master’s degree program may be applied toward meeting the requirements for the second MSU master’s degree.

GRADUATE DEGREES AND PROGRAMS

The following list provides the majors and areas of emphasis for the degrees. Please refer to departmental and program areas of instruction for further information.

Master of Agribusiness Management
Agribusiness Management

Master of Arts (non-thesis option*)
Applied Anthropology
Economics*
English*
Foreign Languages*
History*
Political Science*

Master of Arts in Teaching
Community College

Master of Arts in Teaching-Secondary
Alternate Route-Secondary Teacher Education

Master of Business Administration
Business Administration
Project Management

Master of Landscape Architecture
Landscape Architecture

Master of Professional Accountancy
Accounting

Master of Public Policy and Administration
Public Policy and Administration

Master of Science (non-thesis option*)
Aerospace Engineering*
Architecture*
Biological Engineering*
Biological Sciences
Biomedical Engineering
Chemical Engineering*
Chemistry
Civil Engineering*
Computational Engineering*
Computer Engineering*
Computer Science*
Counselor Education*
Educational Psychology*
Electrical Engineering*
Elementary Education*
Forest Products*
Forestry*
Geosciences*
Industrial Engineering*
Information Systems
Instructional Technology*
Mathematics*
Mechanical Engineering*
Physical Education*
Physics
Psychology
School Administration*
Secondary Education*
Sociology*
Special Education*
Statistics*
Technology*
Veterinary Medical Science*
Wildlife and Fisheries Science
Workforce Educational Leadership

Master of Science in Agricultural Life Sciences (non-thesis option*)
Concentrations:
Animal Physiology
Biochemistry*
Entomology
Genetics*

Master of Science in Agriculture (non-thesis option*)
Concentrations:
Agricultural and Extension Education*
Agricultural Economics*
Agricultural Pest Management
Agronomy*
Animal Nutrition
Horticulture*
Plant Pathology
Poultry Science*
Weed Science

Master of Science in Business Administration (non-thesis option*)
Finance*
Master of Science in Food Science, Nutrition, and Health Promotion
Concentrations:
- Food Science
- Nutrition
- Health Promotion

Master of Taxation
Taxation

Educational Specialist (non-thesis option*)
Concentrations:
- Agricultural and Extension Education*
- Counselor Education*
- Education-Community College*
- Education-Technology*
- Elementary Education*
- School Administration*
- School Psychology*
- Secondary Education*
- Special Education*

Doctor of Education
Concentrations:
- Agricultural and Extension Education
- Counselor Education
- Education-Technology
- Elementary Education
- School Administration
- Secondary Education

Doctor of Philosophy
Agricultural Economics
Agronomy
Animal Physiology
Applied Economics
Biological Sciences
Biomedical Engineering
Business Administration
Concentrations:
- Accounting
- Business Information Systems
- Finance
- Management
- Marketing
Chemistry
Cognitive Science
College/Postsecondary Student Counseling & Personnel Services
Community College Leadership
Computational Engineering
Computer Engineering
Computer Science
Counselor Education/Student Counseling & Guidance Services
Curriculum and Instruction
Education
Concentrations:
- Agricultural and Extension Education
- Education-Technology
- Educational Psychology
- Electrical Engineering
- Elementary Education
- Elementary, Middle and Secondary Education Administration
- Engineering
  Concentrations:
  - Aerospace Engineering
  - Biological Engineering
  - Chemical Engineering
  - Civil Engineering
  - Engineering Physics
  - Industrial Engineering
  - Mechanical Engineering
  Entomology and Plant Pathology
  Environmental Toxicology
  Food Science and Technology
  Forest Resources
  Concentrations:
  - Forest Products
  - Forestry
  - Wildlife and Fisheries
History
Horticulture
Mathematical Sciences
Molecular Biology
Nutrition
Public Policy and Administration
Secondary Education
Sociology
Veterinary Medical Science
Weed Science

DIVISION OF ACADEMIC OUTREACH AND CONTINUING EDUCATION
The mission of the Division of Academic Outreach and Continuing Education is to engage people in achieving their lifelong learning goals through dynamic partnerships, targeted programming, innovative technology, and quality customer service.

The various units of the Division of Academic Outreach and Continuing Education are classified as the following: Academic Outreach, Continuing Education, Independent Study, and the American Language and Culture/English as a Second Language Program.

Academic Outreach
The Office of Academic Outreach offers graduate and undergraduate distance learning programs and courses that are offered in cooperation with Mississippi State University academic departments, external institutions, government, and military partners. These curricula provide accredited educational programs and courses that possess the same rigor and standards of the traditional campus.
Office of Academic Outreach: Academic Programs Offered and Instructional Delivery Methods (MIVN=Mississippi Interactive Video Network)

- Professional Programs
  * Discovery Teacher training (Intensive Weeks, Multiple Off-Campus sites)
  * Graduate Level Certification: Vision Specialist Program (Online)
  * Insurance Summer Institute (Online, Summer Intensive Seminars)
  * Teacher Conservation Workshop (Summer Intensive Seminars)
  * Vocational Teacher Licensure (MIVN and Online)

- Bachelor Degrees:
  * Elementary Education (MIVN)
  * Geosciences, Broadcast Meteorology (DVD)
  * Geosciences, Operational Meteorology (DVD)
  * Interdisciplinary Studies (Online)
  * Child development (MIVN and Online)

- Master’s Programs:
  * Agriculture and Extension Education (MIVN)
  * Business Administration (Online)
  * Civil Engineering (Online—Vicksburg only)
  * Electrical and Computer Engineering (Online—Stennis only)
  * Geosciences, Teachers in Geosciences (DVD)
  * Industrial Engineering (Online)
  * K-12 Administration (Intensive Weekend Seminars)
  * MAT—Community College Instruction (Online)
  * Mechanical Engineering (Online—Stennis only)
  * Physical Education, Health Education/Health Promotion (Online)
  * Public Policy Administration (Online)
  * Workforce Educational Leadership (Online)

- Doctoral Programs
  * Community College Leadership (Intensive Weekend and Online)
  * Electrical and Computer Engineering (Online—Selective Admission Criteria)
  * Industrial Engineering (Online—Selective Admission Criteria)
  * K-12 Administration (Intensive Weekend Seminars)

Contact Information
Admissions: Pat Bennett, Admissions Assistant
205 Memorial Hall
662-325-2639
pbennett@aoce.msstate.edu

Registration: Amy Wallace, Registration Assistant
206 Memorial Hall
662-325-0714
awallace@aoce.msstate.edu

Continuing Education
The Continuing Education unit provides many specialized services to assist professional, governmental, business groups, and individuals in fulfilling their professional and personal development needs. Continuing Education also offers coordination support to campus departments to facilitate the delivery of conferences, workshops, short courses, camps, and events that serve the outreach mission of the University.

Continuing Education Programs and Services:
- Business and Industry-Focused Training
  * Asbestos Certification, HAZWOPER Training, and OSHA Courses
  * Confined Space Training and other specialized safety programs
  * Software training
  * Management and leadership workshops
  * Business, engineering, landscape architecture, and forest resources courses

- Professional/Personal Development
  * Online career certificate programs
  * Programs for K-12 teachers and administrators
  * Summer camps
  * Personal enrichment classes

- Services
  * Conferences and event planning/management
  * Continuing Education units
  * Customized training programs delivered at client locations

Contact Information
Michelle Johnston, Continuing Education Manager
321 Memorial Hall
662-325-1457
mjohnston@aoce.msstate.edu

Independent Study
Independent study includes credit courses at the high school and university levels offered through correspondence. Correspondence study at the graduate level may not be applied to a program of study. All programs are planned for individuals who have varied backgrounds, different levels of maturity, and limited to further their education.
American Language and Culture Programs
(English as a Second Language Center)

American Language and Culture programs housed in the English as a Second Language Center provide cultural and language support to all international students.

Contact Information
Amy Harrison, Executive Secretary
46 Morgan Street, ESL Center, Room 3
662-325-2648
aharrison@aoce.msstate.edu

The Division of Academic Outreach and Continuing Education is a member of the University Continuing Education Association (UCEA), Learning Resources Network (LERN), Partnership for Adult and Continuing Education (PACE), Association for Continuing Higher Education (ACHE), and NAFSA: Association of International Educators.

OFF-CAMPUS CENTERS AND PROGRAMS

Meridian Campus

The Mississippi State University-Meridian Campus is a regional, upper-division, degree-granting campus of Mississippi State University. Located in east-central Mississippi, the campus is non-residential and provides site-based credit and non-credit course work, as well as classes through distance learning using resident faculty, MSU Starkville campus faculty, and part-time adjunct instructors.

Junior, senior, and graduate-level courses offered at Mississippi State-Meridian Campus enable students to fulfill all or some requirements for bachelor’s, master’s, specialist’s and doctoral degrees. Students may also elect to enroll in specific classes for professional or personal growth.

A friendly atmosphere, personal attention, a convenient location, and a diverse student population flavor the educational experience at MSU-Meridian. Through the flexibility of day and evening classes at the MSU-Meridian Campus, both nontraditional adult students and traditional college-age students are able to continue employment, maintain important roles in family life, contribute to their communities, and still obtain a quality Mississippi State University education.

Mississippi State-Meridian serves as a proud symbol of the University’s heritage as “the people’s university” and to its commitment of providing quality higher education through the missions of learning, research, and service.

Location—Mississippi State University-Meridian is located on a 26-acre campus at 1000 Highway 19 North in Meridian, Mississippi. It is easily accessible to residents of east Mississippi and west Alabama by a short drive northwest of Exit 150 off Interstates 20/59 in Meridian.

Distance Learning—Two interactive “teleclassrooms” allow students on the Meridian and Starkville campuses, and at downlink sites elsewhere in the state to receive instruction and interact through two-way video and audio distance technologies. This greatly improves MSU-Meridian’s ability to expand the scope of its service and still maintain courses of the highest quality.

The development of Web-based (direct-to-desktop) delivery systems is also being utilized to facilitate the delivery of asynchronous and synchronous real time audio and video through computer based technologies and the Internet.

Library Facilities—Meridian Campus students are authorized to use the Mitchell Memorial Library on the Starkville Campus in person or access it and other University resources through the MSU Web site.

MSU-Meridian Campus and Meridian Community College have a partnership, whereby MSU-Meridian students may access the holdings in the L.O. Todd Library. The book collection contains 56,000 titles. The library also subscribes to over 600 periodical titles, including scholarly journals, magazines, and newspapers. Interlibrary loan services are provided for students and faculty.

Through an “Electronic Library Room” on the MSU-Meridian Campus, students may access many references and databases directly via computer.

Students—Approximately one-half of the students who attend MSU-Meridian reside in Lauderdale County. The remainder commute from 34 other Mississippi counties and from Alabama, with a majority making their homes in the surrounding counties of Clarke, Jasper, Jones, Kemper, Leake, Neshoba, Newton, Scott, and Wayne. Advancements in course offerings, programs, and distance learning technology are expected to further expand the scope of service.
The following graduate degrees (all or in-part) may be earned at MSU-Meridian:

1. Division of Business and Industry
   Master of Business Administration

2. Division of Education
   A. Master of Science in Education with majors in:
      1. Elementary Education
      2. Secondary Education
         Concentrations:
         a. English
         b. Social Studies
   B. Master of Arts in Teaching with majors in:
      1. Secondary Education
      2. Community College Education
   C. Educational Specialist in Education with emphases in:
      1. Elementary Education
      2. Secondary Education
         Concentrations:
         a. English
         b. Social Studies
   3. Counselor Education
     Concentrations:
     a. Community Counseling
     b. School Counseling
     c. Student Affairs
     d. College Counseling
   4. School Administration

Stennis Space Center
This Center, located in Hancock County, provides students the opportunity to pursue graduate degree programs from Mississippi State University in Chemical Engineering, Civil Engineering, Electrical Engineering, Computer Engineering, Industrial Engineering, and Mechanical Engineering. Also, a graduate certificate is offered in Software Engineering. By utilizing a combination of distance education technologies such as interactive videoconferencing, video streaming via the Internet, and videotape, a degree may be earned over a three- to four-year period. Students pursuing the master’s or doctoral degree through the Center must be fully admitted to a graduate degree program and meet all graduation requirements following a program approved both by the major department and the Office of Graduate Studies.

Students participating in the Engineering Off-Campus Graduate Program through the Center of Higher Learning register at Stennis. By using many combinations of the technologies above, courses are made available allowing off-campus students the opportunity to complete courses that are offered on the main campus during that enrollment period. In addition to courses offered in the five planned program sequences, courses in other engineering disciplines are potentially available upon request.

For information about the graduate programs at SSC, contact The Center of Higher Learning at 228-688-3366 or visit the website at [http://www.ssc.nasa.gov/](http://www.ssc.nasa.gov/)

Vicksburg Graduate Center
Mississippi State University offers several graduate programs leading to the master’s degree through the Vicksburg Graduate Center. The Center operates in partnership with the United States Army Engineer Research and Development Center located at the Waterways Experiment Station, the largest civil engineering and environmental quality research and development complex in the Department of Defense. Graduate degree programs offered at the Vicksburg Center include the Master of Business Administration in business administration and project management and the Master of Science in civil engineering, computational engineering, engineering mechanics, electrical engineering, industrial engineering, computer science, mathematics and statistics.

Courses are taught at the Center by regular full-time faculty of Mississippi State University and by adjunct faculty from the engineering and scientific staff of the United States Army Engineer Research and Development Center who have been selected and approved by the University. All requirements for the master’s degree may be satisfied at the Vicksburg Center. Thesis research and thesis requirements may be met through the appointment of a thesis director from the adjunct faculty in Vicksburg and a major professor who is a member of the regular full-time faculty on the campus at Mississippi State University.

For information about the graduate programs offered in Vicksburg, write to the Vicksburg Graduate Center, 3909 Halls Ferry Road, Vicksburg, MS 39180.
**LIBRARY**

The Mississippi State University Library System is composed of the Mitchell Memorial Library, the main facility, and its branches in the College of Architecture, the College of Veterinary Medicine, and the Meridian Campus.

The MSU Library System maintains a collection of over 2,074,652 volumes and over 16,551 in print format and 17,039 electronic journals. The Library regularly receives many of the publications of leading universities and scholarly societies. An approval plan in support of teaching and research has greatly strengthened the collection. The Library, already a 95% Government Documents Depository, is also a United Nations Depository.

The Library has significantly increased electronic access to bibliographic and full text information held locally as well as at remote sites. Through Galaxy and/or the Library System’s web page, patrons have access to a wide variety of over 157 databases, many of which provide full-text articles from journals not owned by the MSU Library. The Access Services Electronic Reserves program further supports teaching and research. Membership in a number of consortia within the state and region extends the collection. These memberships include KUDZU, a consortium of 14 Association of Southeastern Research Libraries.

Expedited electronic document delivery services in support of research materials and journal articles not available in the Library System’s immediate collections are obtained via Infotrieve in support of graduate students, researchers, and faculty. Initial work, in partnership with the University’s Engineering Research Center, has begun toward the development of the University’s Geospatial Digital Library.

The resources of the Special Collections Department include materials of research value on the local, state, regional, and national levels. Among the valuable documentation in the Archives of the University are papers of the University’s presidents and other officers, college, division and departmental records, faculty papers, records of committees, and University-related organizations. The Manuscripts Division includes many significant collections, especially in the areas of journalism, civil rights, agriculture, and political history. Among the most important are the Turner Catledge Papers, Hodding and Betty Werlein Carter Papers, Mississippi Republican Party Papers, and the Delta and Pine Land Papers. The Mississippiana Collection contains significant works about Mississippi authors and a large rare book collection. The Congressional and Political Research Center houses the papers of Senator John C. Stennis, Congressmen G.V. “Sonny” Montgomery, David Bowen, Charles Griffin, Mike Espy, and Chip Pickering, as well as papers of Wiley Carter and Wayne Weidie, aides to Senator Thad Cochran and Representative Gene Taylor, respectively. The Center is working with the Stennis Institute of Government and the Stennis Center for Public Policy to produce newsletters, seminars, and other programs to promote research and interest in all levels of government. Other notable papers within the department include those of Norma Fields, Eugene Butler, Norman Bradley, Bill Minor, Sid Salter, Mark Bolton, and John Grisham.

The Templeton Music Collection, a unique collection of ragtime, blues, show tunes, and war song sheet music is highly recognized and used by musicians, scholars, and researchers throughout the region and nation. Digitized portions of this collection are available on the web.

The Library computer lab contains approximately 85 Pentium IV 1.6 gigahertz PC’s with 17-inch color monitors and five G4 IMac computers. Students who want to use the sound capabilities of the World Wide Web may plug their own headphones into headphone jacks on the PCs and Macs. The lab also offers two laser printers and a color laser printer. The University’s newest and largest computer lab, the Computer Commons is open until 2:00 a.m., Sunday through Thursday. The Friday hours are 7:00 a.m.-8:00 p.m. and the Saturday hours are 10:00 a.m.-8:00 p.m.

The Instructional Media Center (IMC) provides an environment for educational technology activities and a learning center to utilize techniques related to digital multimedia. The staff provides assistance in identifying, digitizing, and organizing content materials including resources from the Library’s collections for use in web page design or presentation. IMC houses eight computers with CD-ROM players, four computers with flatbed scanners that can be used for scanning documents, pictures, photographs, etc., two typewriters, five TV/VCR stations for students to listen to music as required for various courses. Two of these stations also have record players. Music composition stations consist of electronic keyboards attached to Macintosh computers. The IMC also provides small listening areas with TVs and VCRs for groups to view videos for classes.
The MSU Library System, a charter member of the Southeastern Library Network (SOLINET), holds memberships in the American Library Association, Association of College and Research Libraries, the Networked Digital Library of Theses and Dissertations (NDLTD), EDUCAUSE, EPSCOR/ESIG libraries, CNI and CLR, and was a founding member of Scholarly Publishing and Academic Resources Coalition (SPARC). The Library is one of five supporting regional libraries within the National Agricultural Library Aquaculture Library Network, established to link the research and extension activities of the Regional Research Centers with the Network. The Main Library plays a major role in Mississippi’s statewide consortium MAGNOLIA (Mississippi Alliance for Gaining New Opportunities through Library Information).

**ACADEMIC AND RESEARCH COMPUTING AT MSU**

Academic and Research computing is facilitated by a large campus network spanning approximately 155 academic buildings and residence halls. The network links dozens of large scale computer systems and servers with thousands of desktop workstations. Access to remote branches of the University, as well as the Internet and Internet 2, is provided through high speed, wide-area connections from the campus network. Information Technology Services (ITS) provides primary support for the network infrastructure as well as an array of general purpose computing and information resources. Dial-up network access from home or apartment, email accounts, and personal Web pages are available from ITS to all faculty, staff, and students. Student computer labs in Butler Hall and Mitchell Memorial Library are also available. For more information about the computing and network environment at MSU, as well as the services provided by ITS, go to [http://www.its.msstate.edu](http://www.its.msstate.edu).

**CONSORTIA**

Mississippi State University is a member of several consortia that have specific missions as described below. Further information concerning these programs may be obtained from the Office of the Vice President for Research and Graduate Studies.

**Mississippi-Alabama Sea Grant Consortium (M-ASGC)**

The Mississippi-Alabama Sea Grant Consortium is a research, educational, and service group including Mississippi State University, the University of Mississippi, the University of Southern Mississippi, the University of Alabama (Tuscaloosa), the University of Alabama (Birmingham), the University of South Alabama, Auburn University, Tuskegee Institute, and the Gulf Coast Research Laboratory. The Consortium was initiated by Mississippi State University, the University of Mississippi, and the University of Southern Mississippi in 1970 with both state and federal funding. It currently operates with approximately $1,100,000 per year and has research, education, and advisory service programs in marine law, fisheries, environment, and engineering. Graduate students are involved in the Consortium’s research programs in the same manner as in other funded research with the University. Faculty members working through the Consortium work in conjunction with faculty members at the other institutions; thus, opportunity for multidisciplinary, multi-university cooperation is provided. In September 1982, member institutions of M-ASGC were designated as Sea Grant Colleges “for sustained excellence in research, education, and public service dedicated to wise use of America’s marine resources.” The M-ASGC Consortium program is managed by a full-time director who is responsible to an administrative council appointed by the heads of the member institutions. The Consortium offices are located at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi 39564.

**Oak Ridge Associate Universities (ORAU)**

Since 1949, students and faculty of Mississippi State University have benefited from its membership in Oak Ridge Associated Universities, located in Oak Ridge, Tennessee. ORAU is a consortium of 86 colleges and universities and a contractor for the U.S. Department of Energy (DOE) located in Oak Ridge, Tennessee. ORAU works with its member institutions to assist their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship, and research appointments; and to organize research alliances among its members. Through the Oak Ridge Institute for Science and Education, the DOE facility that ORAU operates, undergraduates, graduates, postgraduates, as well as faculty, enjoy access to a multitude of opportunities for study and research. Students can participate in programs covering a wide variety of disciplines including business, earth sciences, epidemiology, engineering, physics, geological sciences, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry, and mathematics.
The Southeastern Universities Research Association (SURA)

SURA is a consortium of colleges and universities in the southern United States and the District of Columbia established in 1980 as a non-stock, non-profit corporation. SURA serves as a venue for cooperation through which colleges, universities, and other organizations may cooperate, as well as with the government in acquiring, developing, and using laboratories and other research facilities and in furthering knowledge and the application of that knowledge in the physical, biological, and other natural sciences and engineering. SURA’s goals are to foster excellence in scientific research, to strengthen the scientific and technical capabilities of the nation and of the Southeast, and to provide outstanding training opportunities for the next generation of scientists and engineers.

DIVISION OF AGRICULTURE, FORESTRY, AND VETERINARY MEDICINE

The university’s Division of Agriculture, Forestry and Veterinary Medicine provides graduate programs that allow students to engage in independent and creative research in sciences related to agriculture, food, natural resources, and veterinary medicine. Students participate in cutting-edge research that advances knowledge in many disciplines, including biosciences, engineering, and social sciences. Graduate students have opportunities to excel in chosen fields under mentoring by some of the nation’s premier researchers. Graduates will create new knowledge to influence practices and policies in food production and environmental protection that are essential to society’s well-being in the 21st century.

The Division includes the College of Agriculture and Life Sciences, the College of Forest Resources, the College of Veterinary Medicine, the Forest and Wildlife Research Center, the Mississippi Agricultural and Forestry Experiment Station, and the Mississippi State University Extension Service. Affiliations with the GeoResources Institute, the Life Sciences and Biotechnology Institute, and the Food Science Institute provide graduate students with cutting-edge research opportunities.

Graduate students can choose from diverse disciplines such as molecular biology, nutrition, physiology, bioengineering, health and disease. Some of these disciplines are combined in special research programs focused on particular problems, such as detecting crop or forest stress using satellite-based sensors or the delivery of better nutrients to humans and animals through engineered plants. This Division offers graduate students a first-rate opportunity to prepare for a wide range of professions in research and education.

Educational opportunities within the Division are enhanced by the research mission, which applies scientific approaches to real-life problems and the pursuit of new knowledge. The Division is home to nationally and internationally-renowned researchers whose work has led to recognition for the University in the form of scientific publications and commercial products. Graduate students have the opportunity to work closely with these respected researchers to solve novel problems of importance to society.

The College of Agriculture and Life Sciences provides premier programs in agriculture, life sciences, and human ecology. Graduate students work with issues such as global competitiveness, food safety, biotechnology, and improved standards of living and education in rural communities.

The College of Forest Resources is the only college of its kind in the state and one of eight degree-granting colleges and schools at Mississippi State University. It was founded in 1954 to provide education, research, and service opportunities on forests and associated renewable natural resources. The college has earned a national and international reputation as a center for science and education programs in forest resources, wildlife and fisheries, and management and use.

The Forest and Wildlife Research Center is responsible for fundamental and applied research relevant to the management and use of the forest resources of Mississippi and the region. The Center supports graduate students in forestry, forest products, aquaculture, and wildlife and fisheries. Graduates of these programs find rewarding careers as scientists or managers with industry, government agencies, and universities.

The faculty of the College of Veterinary Medicine is home based in one of three departments: Basic Sciences, Pathobiology/Population Medicine, and Clinical Sciences. The Animal Health Center, the Mississippi Veterinary Research and Diagnostic Laboratory System, Field Services, and the Office of Special Programs are the primary professional outreach components of the College. Food supply research focuses on the poultry, catfish, and beef industries. The Center for Environmental Health Sciences and Biomedical Research are nationally recognized.
for outstanding research. Veterinary students have the opportunity to enter a dual degree program in which they can earn a Masters degree in specialty areas such as poultry, beef, dairy, swine, wildlife, and aquaculture.

The Mississippi Agricultural and Forestry Experiment Station (MAFES) is the largest research component of the Division. MAFES research focuses on creating knowledge in scientific fields related to agriculture, biotechnology, food, natural resources, the natural environment, people, and communities. MAFES provides faculty with support for graduate students to partner in fundamental and targeted research. MAFES is headquartered on campus but has four research and extension centers with 16 branch experiment stations across the state. As part of the national land grant system of research, it has many partnerships with other state and federal agencies, including the U.S. Department of Agriculture.

The Mississippi State University Extension Service was established to extend knowledge being developed through research to the people of the state. With offices in all 82 Mississippi counties, the MSU Extension Service provides research-based, non-credit educational programming in agriculture and natural resources, family and consumer education, 4-H youth development, and community resource development. The combined Extension Service and MAFES web site (www.msu.cares.com) is one of the most comprehensive in the United States.

**DIVISION OF RESEARCH — VICE PRESIDENT FOR RESEARCH AND GRADUATE STUDIES**

The Office of Research is the administrative unit responsible for the coordination of all basic and applied research of the University in the areas of Architecture, Biological and Physical Sciences, Education, Engineering, Business and Economics, Humanities, and the Social Sciences. It is composed of the following organizations.

**Intellectual Property and Technology Licensing (IPTL)**

**Laboratory Animal Veterinarian (LAV)**

**Radvanyi Chair in International Studies**

**Regulatory Compliance Office (RCO)**

**Sponsored Programs Administration (SPA)**

**Centers and Institutes:**

Center for Advanced Vehicular Systems (CAVS)

Center for Educational and Training Technology (CETT)

Center for Safety and Health (CSH)

Center for Science, Math, and Technology (CSMT)

Electron Microscope Center (EMC)

GeoResources Institute (GRI)

Institute for Neurocognitive Science and Technology (INST)

Mississippi State Chemical Laboratory (MSCL)

Research and Curriculum Unit for Vocational-Technical Education (RCU)

Science and Technology Research Center (STRC)

Social Science Research Center (SSRC)

T.K. Martin Center for Technology and Disability (TKM)

Technology Resource Institute for Business and Engineering (TRI)

Transportation Research Center (TRC)

Water Resources Research Institute (WRRI)

**Colleges:**

In addition, there are separately organized research units in various colleges.

**College of Architecture**

Carl Small Town Center (CSTC)

Design Research and Informatics Laboratory (DRIL)

Educational Design Institute (EDI)

Jackson Community Design Center (JCDC)

**College of Arts and Sciences**

Biological and Physical Science Research Center (B&PSRI)

Center for Computational Sciences (CCS)

Cobb Institute of Archaeology

Institute for the Humanities (IH)

The John C. Stennis Institute of Government

University/Industry Chemical Research Center (UICRC)

**College of Business and Industry**

Division of Business Research (DBR)

Division of Business Services (DBS)

Small Business Development Center (SBDC)

Technology Resource Institute (TRI)/Resource Referral Center (RRC)

**College of Education**

Bureau of Educational Research and Evaluation (BERE)

Center for Educational Partnerships (CEP)

Early Childhood Institute

Rehabilitation Research and Training Center for Blindness and Low Vision (RRTC)

**College of Engineering**

Artificial Intelligence Laboratory (AIL)

Center for Computer Security Research (CCSR)

Center for DoD Programming Environment and Training (PET)
Mississippi State University is a participating institution of the Mississippi-Alabama Sea Grant Consortium, a consortium of Mississippi and Alabama universities and the Gulf Coast Research Laboratory; it is a member institution of the Oak Ridge Associated Universities, the Southeastern Universities Research Association, and the Mississippi Academy of Sciences.

With a core of excellent scientists, engineers, and economists, aided by numerous graduate research assistants, MSU has contributed to the economic and industrial growth of the State. Extensive resources are available to assist economic, industrial, and governmental organizations desiring help in discovery, design, and the development of new products. Research, graduate education, and undergraduate education become the three segments of learning pursued in a university setting. Each of these contributes to the other, making possible a balanced program which provides the State with research-oriented graduates as well as new basic knowledge necessary for growth. The Office of Research and Graduate Studies and the Mississippi Agricultural and Forestry Experiment Station work together and exchange ideas and information in the performance of their missions to do basic and applied research contributing to the total industrial and agricultural development of Mississippi.

Intellectual Property and Technology Licensing (IPTL)

The mission of the Office of Intellectual Property and Technology Licensing is the identification, protection, marketing, and licensing of intellectual properties developed by Mississippi State University faculty, staff, and students. This mission originates from Public Law 96-517, better known as the Bayh-Dole Act, which stipulates that inventions developed under sponsorship from the federal government and assigned to the University must be actively transferred to the private sector for the benefit of the general public.

Laboratory Animal Veterinarian (LAV)

Laboratory Animal Veterinarian (Animal Resources) is a University-wide resource that provides compliance monitoring, veterinary and domiciliary care, technical support, and program planning for animals used in biomedical and some agricultural teaching, testing and research. The organization, overseen by the Vice President for Research and Graduate Studies and administrators of University units using animals, is advised by the University Institutional Animal Care and Use Committee and conforms with local, state, and Federal regulations and guidelines for animal care and use.

The Radvanyi Chair in International Studies

On June 11, 1996, the endowed Chair in International Security and Strategic Studies was established with Dr. Janos Radvanyi as the first chairholder. On June 22, 1998, Dr. Malcolm Portera, President, Mississippi State University, named the Chair in Dr. Radvanyi’s honor, the Radvanyi Chair in International Studies. The Chair devotes full attention to vital global problems with special emphasis on the complex security issues of the post-communist era. It alerts to America's vulnerability by not having a reliable defense against hostile missile attacks. The Chair studies U.S. counterterrorism policy and monitors German-European and American relations and the insight of the workings of the European Union and Asian Security issues. The Chair through its Executive Lecture Forum (ELF) provides a unique outreach program, hosting internationally respected speakers from around the globe to address the membership. Its publications reach government agencies, think-tanks, and major libraries. This exclusive lecture forum counts as its members Mississippi business executives, academicians, and state government representatives and meets on a regular basis several times a year. Through the Chair, both students and faculty are provided a wide range of opportunities to gain awareness of international, political, economic, and cultural issues.
Regulatory Compliance Office (RCO)
The Regulatory Compliance Office is the component of the Office of Research and Graduate Studies responsible for the administration and facilitation of compliance matters that affect the research, instruction, and extension programs of the institution. Components of the Regulatory Compliance Office include the following: Biosafety (IBC), Human Subjects Use in Research (IRB), Animal Care and Use (IACUC), Hazardous Waste Management, Radiological Safety and Scientific Misconduct.

Sponsored Programs Administration (SPA)
Sponsored Programs Administration (SPA) is the component of the Office of Research and Graduate Studies responsible for the administration of external proposal activities and pre-award and post-award contractual negotiations of fiscal and administrative matters. Services provided by Sponsored Programs include: disseminate funding information; assist faculty in contacting funding agencies; assure compliance with proposal guidelines; provide proposal budget cost analysis; facilitate in obtaining appropriate departmental and collegiate approvals; coordinate institutional compliance with government regulation; act as administrative liaison with the administrative officers of external sponsors; and assist faculty and staff in administrative problem-solving associated with sponsored projects.

CENTERS AND INSTITUTES

Center for Advanced Vehicular Systems (CAVS)
The Center for Advanced Vehicular Systems (CAVS) was established in 2001 by the State of Mississippi to enhance the interaction of the State with the automotive manufacturing community. The Center has a research and development partnership with the Nissan Research Center in Japan due to Nissan’s manufacturing investment in Mississippi. CAVS also has projects with other automotive and vehicular manufacturing companies.

The CAVS mission is to research and develop manufacturing and design means and methods for producing vehicles of superior quality with advanced features and functions at reduced costs and within shorter product-development times, exploiting the underlying technologies for broader industrial use. The mission also includes engineering extension, education, and workforce training outreach for industry.

The CAVS research thrusts are in the areas of alternative power systems, computational manufacturing and design, and human and systems engineering. Academic disciplines involved in CAVS include psychology, mathematics, mechanical engineering, chemical engineering, biological engineering, civil engineering, industrial engineering, computational engineering, aerospace engineering, and physics.

Center for Educational and Training Technology (CETT)
The Center for Educational and Training Technology (CETT) was created in 1996 to provide for the development and implementation of innovative instructional technologies and software tools through an interdisciplinary approach involving units and organizations from across the campus, state, and nation. The work of the Center focuses upon developing interactive multimedia instructional delivery systems, technology-enriched instructional modules, emerging software-based technologies and associated training systems and integrating them into educational and training environments in schools, businesses, and industry.

Center for Safety and Health (CSH)
The Center for Safety and Health (CSH) is a federal grant program created in 1970 as the Branch of Occupational Safety and Health, a part of the Mississippi State Board of Health. In 1991 the branch was elevated to division status and in 1992 was relocated to the Mississippi Workers’ Compensation Commission. In 1994 the division was transferred to Mississippi State University and designated a Center. The purpose of the Center is to provide assistance to the employers or managers of small and medium size high-hazard businesses in Mississippi by helping them achieve compliance with the regulations of the U.S. Department of Labor, Occupational Safety and Health Administration (OSHA). The services provided by the Center are free of charge, confidential, and conducted only at the request of the business employers. The Center is staffed with experienced safety consultants and industrial hygienists who conduct consultative surveys at industrial sites, construction projects, and medical facilities. During the consultation visit, an opening conference is held to present the consultant’s credentials, define the consultation procedure, and explain employers’ recordkeeping and program requirements under the law. The employers’ obligations are also addressed during the opening conference. The employer must agree to correct all identified imminent danger and serious hazards. A review of the recordkeeping and required programs is conducted. During a tour of the survey site or facility, production processes, methods of operation, and facilities are assessed for potential and observed hazards. Health and
safety conditions present in the workplace are evaluated by the use of appropriate monitoring and testing equipment.

A brief closing conference is held to review the observed safety and health hazards and to suggest initial corrective measures. The consultant then prepares a technical report to describe any hazards as related to applicable standards and to make recommendations for correction and/or control measures. Mutually agreed upon hazard abatement dates are addressed in the report. The Center staff is also available to assist employers over the telephone with off-site consultation matters to help solve problems and answer general questions. Employers may be provided with helpful handouts such as sample programs, forms, etc. Employers may also choose to visit the website or Center office to interface directly with a consultant to discuss various subjects.

Center for Science, Math and Technology (CSMT)

The Center for Science, Mathematics and Technology (CSMT) was created in 1996 to facilitate multidisciplinary research with a focus on science and mathematics education. Concentrating on human resource development issues in preparing people for work, in gender equity, in curriculum reform, and in environmental education, the Center has actively pursued research projects in teacher enhancement, advanced technology, and faculty development from extramural sources. Under supervision of the Vice President for Research and Graduate Studies, the Center will continue to undertake collaborative research projects with other Mississippi State University departments and units supporting educational reform, faculty enhancement, environmental education, and encouraging participation of women and minorities in science, engineering, mathematics, and technology.

Electron Microscope Center (EMC)

The Electron Microscope Center (EMC) is a University-wide facility supported by the Mississippi State University Office of Research and Graduate Studies. The purposes of the EMC are 1) to provide the Mississippi State University academic and research community access to specialized electron microscopy and confocal equipment, 2) to give professional consultation on research problems related to electron microscopy; and 3) to provide instruction and assistance in the use of electron microscopy and confocal equipment.

GeoResources Institute (GRI)

Mississippi State University created the institutional-level GeoResources Institute (GRI) to combine and integrate academic and operational units active in conducting and coordinating research and educational activities in geospatial technologies and resource management—particularly agriculture, forestry, water resources, computational modeling, and visualization. The GeoResources Institute actively interacts with regional, state, and federal governments and agencies, private landowners, and other organizations to identify and prioritize major concerns.

The mission of GRI is to understand Earth’s natural and managed systems and provide comprehensive solutions for socioeconomic and environmental requirements leading to an improved quality of life.

THE GRI brings together faculty from 22 departments in six colleges/units within Mississippi State University. The GRI also collaborates with many community colleges and focuses on agriculture, water resources, state and local government, and economic development.

Institute for Neurocognitive Science and Technology (INST)

The Institute for Neurocognitive Science and Technology (INST) was established in 2004 to facilitate multidisciplinary research, education, and service in the areas of cognitive science and medical systems. The Institute will facilitate both research in cognitive science and medical systems and education at graduate and undergraduate levels. The focus of the Institute is on science and technology research that is applicable to and helps optimize human systems performance. Collaborators include 21 faculty in the fields of cognitive neuroscience, cognitive science, biomedical engineering, veterinary medicine, biology, electrical and computer engineering, and computer science. Faculty conduct multiple sponsored research projects with the support of graduate students, undergraduate students, and support staff. The Institute will provide new research opportunities for faculty members who need access to MRI and other biological imaging resources and create hands-on learning experiences for graduate and undergraduate students. The Institute will own a Magnetic Rensonance Imaging (MRI) unit and conduct fMRI studies (functional MRI) that will augment MSU research capabilities. Functional Magnetic Resonance Imaging (fMRI) allows scientists to directly observe brain function by mapping changes in blood flow that correspond to mental operations. This non-invasive technology opens new opportunities to understand how the brain is organized and how it functions on multiple levels simultaneously. Research to be conducted at MSU has applications in facilitating the human interface through controls and
instrumentation for complex systems such as aircraft, weapons, and automobiles, as well as in veterinary medicine applications. A University-level multidisciplinary research unit, the INST is organized with University-wide responsibilities under supervision of the Vice President for Research and Graduate Studies.

Mississippi State Chemical Laboratory (MSCL)
From the earliest days of Mississippi State University its authorities have encouraged those in charge of its science and technical departments to seek opportunities to contribute to the agricultural and industrial progress in the State and otherwise to cooperate in public service. The State Chemical Laboratory (MSCL) is a part of this effort.

The State Laboratory was established in 1892 with the control of fertilizer quality as its primary responsibility. Subsequent legislation added duties in the areas of animal feed control, pesticide control, food control, paint and varnish control, and petroleum products control. In 1970 the Legislature redefined and clarified the purpose and operations of the Mississippi State Chemical Laboratory. Four divisions were established: the Chemical Regulatory Division, the Petroleum Products Division, the Industrial Agricultural Services Division, and the Research Division. Operation of the first two divisions was continued virtually unchanged from its practice of the past. The Industrial and Agricultural Services Division and the Research Division are expansions of services previously performed by the Chemical Regulatory Division.

The Chemical Regulatory Division carries out regulatory control programs in feed, animal feeds, fertilizers, economic poisons, and paints and varnishes. The Petroleum Products Division conducts regulatory control testing on petroleum and related products. The Industrial and Agricultural Services Division provides applied scientific and engineering consultation to industries and individuals residing in or doing business in the State. Charges are assessed for major projects so that they will be self-supporting but nonprofit. The guiding principle in such services shall be that they contribute to the economic growth of Mississippi or to the welfare of its citizens. The Research Division conducts self-supported, grant, or contract research having immediate or potential influence on the economic growth and promotion of agriculture or industry in Mississippi or on improvement of the Laboratory's analytical capabilities.

Research and Curriculum Unit for Vocational-Technical Education (RCU)
The Research and Curriculum Unit for Vocational and Technical Education (RCU) is jointly sponsored by the Mississippi Department of Education, Office of Vocational and Technical Education, and the Office of Research and Graduate Studies of Mississippi State University. The mission of the RCU is to provide leadership in state workforce development efforts and coordinate those efforts with secondary and community/junior college vocational/technical education curriculum. The RCU cooperates with other state agencies in uniting and coordinating workforce development efforts. It provides instructional leadership in vocational and technical education activities, working with statewide curriculum frameworks and initiatives. Professional development activities are provided for educators across the state, enhancing their ability to provide optimal utilization and implementation of materials and research findings for the classroom. Research activities include assistance with statewide vocational-technical assessments, reporting, and innovations. The RCU staff works with personnel from local school systems, community/junior colleges, state universities, the Mississippi Department of Education, the U.S. Office of Education, and other agencies and organizations.

Science and Technology Research Center (STRC)
The Science and Technology Research Center (STRC) has been located at The John C. Stennis Space Center (SSC) in Hancock County, MS, since the mid-1960s. It provides research coordination and fact-finding assistance as a liaison office to all MSU faculty with federal and state agencies at SSC and elsewhere on the Mississippi Gulf Coast. Additionally, STRC coordinates U.S. Navy research projects through the Mississippi Research Consortium (MRC) for MSU, Jackson State University, the University of Mississippi, and the University of Southern Mississippi.

Social Science Research Center (SSRC)
The Social Science Research Center (SSRC) has over 50 years experience as an organized University research center. It engages in the analysis and study of numerous important social and economic issues facing Mississippi, the southern region, and the nation. Some 43 research fellows, supported by approximately 75 graduate and undergraduate students, research associates, and support staff conduct approximately 65 sponsored and numerous unsponsored research projects. The Center has a strong tradition of multi-disciplinary research, development, and evaluation projects dealing with social and community development, the family and children, alcohol and drug studies, highway safety, race relations, natural resources, the environment, behavioral dimensions of health, and information-age
societal monitoring. Housed in the Mississippi Research and Technology Park adjacent to the MSU campus, SSRC researchers benefit from the interdisciplinary research infrastructure of the Center, which has five program areas: the Family and Children Research Unit; the Mississippi Alcohol Safety Education Program; the Rural Health, Safety and Security Institute; the Mississippi Health Policy Research Center; and the General Research Program. It also supports the Survey Research Unit, the Monitor Laboratory, the Secure Data Laboratory, the Evaluation and Decision Support Laboratory, and the Unit for Community and Environmental Studies.

The SSRC has the following major goals: 1) to conduct research on social, economic, political, human resource, and social-environmental problems facing the state, nation, and world; 2) to provide a support system for the University to plan, develop, secure funding for and conduct social research on problems of interest to the scientific community and to consumers of research findings; 3) to provide a mechanism whereby existing social science research capabilities in the University can be matched with funding sources; and 4) to contribute to the University’s graduate and undergraduate programs by public service programs that do not fit more traditional academic structures. A University-level, multidisciplinary research unit, organized with University-wide responsibilities under supervision of the Vice President for Research and Graduate Studies, the SSRC also has administrative responsibilities for certain programs to the Director of MAFES.

T. K. Martin Center for Technology and Disability (TKM)

The T. K. Martin Center for Technology and Disability (TKM) at Mississippi State University was created in 1994 as a unique entity which provides direct clinical assistive technology to individuals with disabilities in an environment that promotes application and research.

The Center works in conjunction with the Mississippi Department of Rehabilitation Services and other agencies to provide the latest in evaluation, prescription, and training of a wide range of assistive technologies, ranging from design and fabrication of mechanical devices to computer-based technologies. The Center collaborates with other University centers, institutes, and departments on research issues involving new technologies and technology integration issues. The Center is housed in the T.K. Martin Center Building, adjacent to the Longest Student Health Center.

Technology Resource Institute for Business and Engineering (TRI)

The promotion of University public/private partnership that will enhance economic development throughout the state is provided through centers located within the Technology Resource Institute (TRI). The Resource Referral Center under TRI refers callers to appropriate researchers on campus to meet their needs.

Transportation Research Center (TRC)

The Transportation Research Center (TRC) was established in 1997. The primary function of TRC is to conduct scholarly research designed to advance the current state of transportation-related technologies in the State of Mississippi and to provide educational opportunities to the Mississippi Department of Transportation (MDOT) personnel for the advancement of their professional careers. The TRC acts in coordination with the MDOT Division of Research to provide administration of on-campus and off-campus research projects and to provide credit and non-credit instructional programs as requested by MDOT.

Water Resources Research Institute (WRRI)

As a reflection of the public consciousness of water problems, the Congress, through Public Law 88-379.17 in July 1964, authorized the establishment of a Water Resources Research Institute (WRRI) in each of the fifty states and Puerto Rico. These institutes were re-authorized in 1984 (PL 98-242) “…for the conduct of research, investigations, experiments, and the training of scientists in the fields of water and of resources which affect water.” On November 10, 1964, the Governor of Mississippi designated Mississippi State University as the institution in Mississippi to establish and carry on the work of a Water Resources Institute. The Institute is a joint state-federal undertaking for which federal funds are presently derived through the U.S. Geological Survey, Department of the Interior.

COLLEGES

COLLEGE OF ARCHITECTURE, ART, AND DESIGN

The research component of the College of Architecture, Art, and Design includes the Carl Small Town Center (CSTC), the Jackson Community Design Center (JCDC), the Design Research and Informatics Laboratory (DRIL), and the Educational Design Institute (EDI). As architecture combines aspects of both science and art, research within the College of Architecture, Art, and Design is more than either basic research or creative expression.
Research in the discipline of architecture aims to improve both the built environment and the quality of life. Therefore, architectural research ranges from the development of new materials or building components that make buildings more efficient, safer, less expensive, or more durable to the design of prototypical communities that are environmentally sensitive, energy-efficient, and economically viable.

Established in 1979, the Carl Small Town Center (CSTC) seeks to initiate theoretical and applied research and to serve as a national focus for the collection, storage, dissemination, and application of information pertinent to issues of special interest in small towns. The Center provides research and service assistance to towns through planning and design projects. CSTC projects address the role of the community and public space in the built environment by looking at redeveloping downtowns, readdressing commercial strip development, improving town planning, and helping towns plan for future growth. In addition to addressing urban and rural form, the Center studies housing through the design of sustainable neighborhoods, the creation of housing guidelines for historic districts, and the design and research of low-income affordable houses. The design of housing prototypes enables the CSTC to address advantages of vernacular forms, lowering life-cycle costs, and investigating new technologies in materials and construction techniques. Carl Small Town Center activities include graphic and photographic documentation and computer imaging of the small-town scene. The CSTC has participated in design case studies, environmental impact studies, and economic and marketing analyses. The CSTC provides research and service assistance to towns through the redevelopment of downtowns and the implementation of other comparable community-improvements initiatives. Assistance projects may include: organizing for community improvement, community design, economic diversification, town planning, conservation of architectural and historic resources, affordable housing design and technology, and other activities that affect quality of life in the community.

The Design Research and Informatics Laboratory (DRIL) is a computing/visualization/technology laboratory for interdisciplinary research. Research project types engaged in the DRIL encompass a wide array of issues in architecture and related fields. Problems are engaged in computer visualization-imaging, multi-media, digital design, Computer Aided Design Computer Aided Manufacturing (CADCAM), manufactured housing, e-learning, web design, information technology-informatics, design and construction project management, and sustainability/building sciences using the latest technology. Multidisciplinary teams engage research in the physical environments and product design as well as addressing issues in digital media and cyber-architecture. Design students, as well as students from other related fields, are educated regarding emerging digital technologies and the respective influence on the design and manufacturing processes. Students at all levels of technology skills are engaged in research projects that complement their individual educational backgrounds and career goals. The DRIL encourages collaboration with specialist experts in related research centers and labs both at MSU and abroad.

The Educational Design Institute (EDI) is a collaborative initiative between the College of Education and the College of Architecture, Art, and Design. EDI is charged with exploring the changes in educational delivery and with rethinking how schools envision, plan, design, manage, and use their educational facilities. EDI is involved in planning new school facilities, guidelines for the design of facilities, and continues to disseminate state-of-the-art thinking on facility design. As both a collaborative partner for educational-facility planning and a leader in educational-design innovation in the South, the Institute pursues collaborative projects and initiatives with local school districts, the Carl Small Town Center, the Mississippi Department of Education, and private foundations.

Jackson Community Design Center (JCDC) endeavors to provide technical, educational, design, and research assistance to neighborhoods and groups within the Jackson urban community in order to facilitate their revitalization initiatives. Assistance projects include: affordable housing design, urban public-space-improvement design, programming and cost estimating, educational seminars, identification of and research on historically significant structures, and feasibility studies to encourage new development. JCDC activities include interdisciplinary studies of urban living and working environments. Studies focus on environmental factors associated with crime prevention, history, social behavior, building material durability, and use-feasibility analysis for urban revitalization efforts.

Other research activities within the College of Architecture, Art, and Design focus on humanities and technology studies. Humanities include such work as new methodologies for programming, planning and design, anthropometric modeling and evaluation, architecture theory and history research, visual imagery and its impact, post-occupancy
evaluation of buildings by their user, etc. Technology studies include technological evaluation of building materials and methods, energy design evaluation, solar energy equipment, construction, and testing.

COLLEGE OF ARTS AND SCIENCES
Biological and Physical Sciences Research Institute (B&PSRI)

Support for research activities in the biological and physical sciences comes both from the University and from outside sources, including state and federal agencies, private industry, and foundations. Some projects are carried out by staff members working independently or with graduate students, while other projects are multidisciplinary in nature and are conducted in cooperation with staff members from other colleges in the University, the Mississippi Agricultural and Forestry Experiment Station, and the Mississippi State Chemical Laboratory. Staff members also participate in multi-institutional projects in cooperation with personnel from the University of Mississippi, the University of Southern Mississippi and the Gulf Coast Research Laboratory.

Center for Computational Sciences (CCS)

Science is the basis of our technological society. The everyday devices we use, from computers to telephones to automobiles, are based upon understanding the underlying scientific principles and utilizing these principles to engineer devices. The goal is to enhance the applicability and usability of simulations involving interacting physical, chemical, biological, and engineering phenomena by developing integrated computational environments and crosscutting tools that synergistically couple information technology with computational science and engineering.

The Center for Computational Sciences (CCS) contributes to the state of Mississippi in numerous ways. First, it allows a better-trained work force by educating students at both the undergraduate and graduate levels in computational science, giving the students both strong computer skills and strong skills in applying the scientific method. These skills are required by many diverse industries and businesses. Second, the CCS allows MSU scientists from disparate areas to become familiar with different research and methodologies. This uniquely positions the scientists to react to multidisciplinary requests for proposals. Such multidisciplinary approaches to problem solving are often required by requests for proposals from federal agencies ranging from the National Science Foundation to the Department of Defense to the Department of Homeland Security. Thus the CCS allows for a new method of leveraging MSU resources. Responding to such calls for proposals will strengthen the sciences at MSU and consequently strengthen the entire University.

Cobb Institute of Archaeology

The Cobb Institute of Archaeology was founded in July 1971 at Mississippi State University by Mr. Cully A. Cobb (Class of 1908) and Mrs. Lois Dowdle Cobb for instruction and research in archaeology with emphasis upon the origins of western European civilization and the Indians of the South, particularly Mississippi. The Institute was endowed by the Cobbs to complement the University’s activities in archaeological instruction, research, and service.

The Institute provides active support for the instructional program in archaeology offered through the Department of Sociology and Anthropology and the Department of Philosophy and Religion. Research and field work are actively pursued, primarily in the Middle East and the Southeastern United States. The Institute actively supports an archaeological field school offered in alternate summers in the Middle East and Mississippi. The Institute is housed in two specially designed buildings which include classrooms, archaeological laboratories, environmentally controlled artifact storage areas, and a museum in which archaeological exhibits are available to students and the public.

Institute for the Humanities (IH)

The Institute for the Humanities promotes research, scholarship, and creative works in the humanistic disciplines and increases the visibility of the humanities generally, both within the University and the community. The Institute assists faculty in the preparation and submission of grant proposals to external agencies and serves as a liaison between its members and the Office of Research and Graduate Studies. Its membership includes the Associate Dean of Arts and Sciences and the faculty from the Departments of Art, Communication, English, Foreign Languages, History, Music, and Philosophy and Religion, as well as the Cobb Institute of Archeology. Its advisory board includes faculty from the Humanities disciplines as well as members of the community.

The Institute’s present activities involve sponsoring a Distinguished Speakers Series, which brings prominent people in the Humanities from around the world; promoting and helping to fund members’ research initiatives; supporting members’ attendance at scholarly meetings and conferences; and presenting workshops focused on issues surrounding appreciation for the Humanities in
Mississippi, and elsewhere, through scholarship and innovative teaching. Each year, with the support of the Mississippi Humanities Council, the Institute recognizes outstanding professors in the Humanities by announcing the Humanist of the Year and the Humanities Teacher of the Year awards for Mississippi State University. The winners receive an honorarium and attend the statewide Mississippi Humanities Banquet in Jackson, MS, which is held in their honor.

The John C. Stennis Institute of Government

The John C. Stennis Institute of Government performs a threefold mission: (1) to enhance the efficiency and effectiveness of Mississippi state and local government through basic and applied research, training, technical assistance, and service; (2) to provide technical assistance and research for both rural development in Mississippi and regional activities in the Southeast; and (3) to promote civic education and citizen involvement in the political process. The Stennis Institute’s programs relating to state and local government include the State Executive Development Institute for key state officials; the Governing Institute for Mayors; and technical assistance to state agencies and local governments. The Institute’s research on rural development includes an assessment of local officials’ perceptions of state economic development activities. The Stennis Institute’s civic education programs include participation in the Congressional Insight program, as well as a variety of state and national programs.

Funds for The Stennis Institute of Government come partially from interest on more than $1.7 million that has been raised by the Mississippi State University Development Foundation as a memorial to Senator John C. Stennis but primarily from grants and contracts from outside sources.

University/Industry Chemical Research Center (UICRC)

The University/Industry Chemical Research Center (UICRC) began contract work for industries in 1982. The UICRC has the following major goals: 1) to assist Mississippi industry by performing chemical research to aid in their product development; 2) to work on chemistry-related problems for any industry; 3) to teach graduate and undergraduate students techniques of industrial chemistry; 4) to help attract chemical-based industry into the state; and 5) to help train B.S., M.S., and Ph.D. chemists and attract visiting scholars and postdoctoral fellows for specific functions for industry. The UICRC conducts grant and contract research and can work with most industries to develop mutually satisfactory agreements involving any necessary secrecy arrangements. It is also possible to work on short- or long-term projects and to arrange feasibility studies before binding contracts are written.

COLLEGE OF BUSINESS AND INDUSTRY

The Office of Business Research and Services is an integral part of the College of Business and Industry. This office is comprised of four distinct and varied units.

Division of Business Research (DBR)

The Division of Business Research (DRB) is one of the major research organizations of the University. It was established in 1939 as the Bureau of Business and Economic Research to study scientifically the business, economic, and governmental problems of the State under the direction of the College of Business and Industry. Continued growth of the Bureau led to the eventual establishment of the Division of Business Research with several distinct responsibilities. The Division participates in contract research, cooperating with interested organizations that have specific problems requiring investigation. The Division serves as the coordinating center of funded research for the College of Business and Industry. In addition, the Division works with the MSU Office of Research and Graduate Studies in seeking grants for faculty members and in assisting with implementing and completing projects. This unit also produces an annual publication, Mississippi Statistical Abstract, a varied compendium of statistics about Mississippi, in addition to comparisons with rankings among selected Southeastern states.

Division of Business Services (DBS)

The Division of Business Services (DBS) has as its primary responsibility the provision of training and services, other than primary research, to the business community. Typical activities include custom-designed seminars and consulting services for private firms, governmental agencies, international groups, and non-profit associations. These services are usually provided on a contractual or fee basis.

Small Business Development Center (SBDC)

Small Business Development Center (SBDC) at Mississippi State University was organized in 1984 to provide counseling in Oktibbeha County and the surrounding counties to people who own a small business or are interested in starting one. This unit is designed to assist small businesses through direct consulting, training seminars, and referrals to other agencies or individuals. Charges are minimal or non-existent.
Technology Resource Institute (TRI)/Resource Referral Center (RRC)

Technology Resource Institute (TRI) is charged with the mission of promotion of University public/private partnerships that will enhance economic development throughout the State. This Center provides assistance with business analysis or planning; production, marketing or finance solutions; research projects; feasibility studies; and community planning. The staff serves as liaison with appropriate faculty or service agencies and assists in resolving business issues.

COLLEGE OF EDUCATION
Bureau of Educational Research and Evaluation (BERE)

The Bureau of Educational Research and Evaluation (BERE) was authorized by the Board of Trustees in the spring of 1966. This research organization is an integral part of the College of Education and is a cooperating unit of the Office of Research.

The major functions of the Bureau are:
1. to engage in basic and applied research pertaining to educational issues;
2. to consult with faculty and students about problems of research design and analysis;
3. to provide aid in dissemination of the research findings of educational research staff;
4. to assist in the development of proposals for grants for research and program development in the College of Education;
5. to provide assistance to school districts and other educational/human science agencies in Mississippi the region, and the nation in the areas of research and evaluation; and
6. to assist in test development for public schools.

Center for Educational Partnerships (CEP)

The Center for Educational Partnerships (CEP) is an integral part of the College of Education, functioning as a facilitator of technical and support services to the public school districts of Mississippi.

The major functions of the Center include:
1. providing administrative support for the Program for Research and Evaluation of Public Schools, Inc. (PREPS, Inc.). PREPS is a private nonprofit consortium composed of 88 public school districts.
2. providing administrative support for the Mississippi Writing/Thinking Institute. The Institute is a state-wide project chartered by the National Writing Project.
3. providing administrative support for the World Class Teaching Project. The Project is a state-wide initiative intended to support the certification of Mississippi teachers through the National Board of Professional Teaching Standards.
4. providing administrative support for Americas Reads-Mississippi Project. This project is intended to support and enhance the reading performance of elementary students in participating schools located in the State’s 14 Level 1 accredited school districts.
5. providing administrative support for the Educational Design Institute. This project focuses on improving the educational design of education facilities and offering educational planning consultation and other services to school districts.
6. administering the Mississippi Superintendent Mentor Program to provide training and consultation for newly-selected Mississippi school superintendents.
7. providing assistance in the development of a National Center for the Community College.

Early Childhood Institute

The Early Childhood Institute housed in the College of Education at Mississippi State University has three main purposes:
• to develop and maintain a leadership program whereby individuals are prepared to guide early childhood policy and practice at the local and state level;
• to improve the quality of care and education of children prior to their entrance into school and through third grade; and
• to assist communities in building partnerships with families and schools and to support families as their children’s first and most important teacher.

Rehabilitation Research and Training Center on Blindness and Low Vision (RRTC)

The Rehabilitation Research and Training Center on Blindness and Low Vision (RRTC) was established in 1981 at Mississippi State University to serve all states and territories of the U.S. It is cooperatively sponsored by the National Institute on Disability and Rehabilitation Research and the College of Education. This National Center is dedicated to the study of blindness and low vision and their effects on the employment and careers of people who are blind or severely visually impaired. The programs of the RRTC are based on the two following assumptions: (1) all blind and severely visually impaired people have a right to work at a wage comparable with non-disabled persons and in careers that provide satisfaction and opportunity for advancement; and (2) many more blind or severely visually impaired persons may obtain satisfying gainful employment through the utilization of research and training programs.
The research and training programs of the RRTC strive to develop products that may be used by consumers and professionals to enhance the career development of blind and visually impaired persons. Career development is as important for these persons as for sighted ones. Because of its importance, it must not be left to chance; skilled professionals and committed consumers can enhance the career development of blind and visually impaired persons through the use of research and training products.

COLLEGE OF ENGINEERING
Artificial Intelligence Laboratory (AIL)
The Artificial Intelligence Laboratory (AIL) in the Department of Computer Science and Engineering includes a variety of research projects ranging from theoretical to applied and including several interdisciplinary collaborations. Specific research interests include sub-symbolic methods for machine learning such as genetic algorithms and neural networks, automated planning (including decision-theoretic approaches to planning under uncertainty and game-theoretic approaches to multi-agent planning), heuristic search (such as memory-efficient graph-search algorithms), and the application of data mining and machine learning techniques to document classification, bioinformatics, and computer security. Research in this laboratory has been supported by NSF, the USDA, ONR, ARL, the Naval Oceanographic Office, and the Department of Energy.

Center for Computer Security Research (CCSR)
The Mississippi State University for Computer Security Research (CCSR) is a National Security Agency-certified National Center for Academic Excellence in Information Assurance Education. The Center promotes computer security education and research. The CCSR is dedicated to the scientific exploration of computer vulnerabilities and misuse with the objective of improving prevention and detection techniques through its core research areas of artificial intelligence, computer forensics, software engineering, security engineering, and cryptography. The Center supports undergraduate and graduate students through research assistantships and scholarships provided by the National Science Foundation Scholarship for Service Program and the U.S. Department of Defense Information Assurance Scholarship Program.

Center for DoD Programming Environment and Training (PET)
The mission of the Center for DoD Programming Environment and Training (PET) is to bring University research results and expertise to bear in collaborative assistance and training for DoD users as part of the DoD High Performance Computing Modernization Program (HPCMP). The PET component of the DoD HPCMP is a bold and innovative University/industry/government effort to provide the essential user support and mode of capability enhancement that is necessary to address the wide variety of research and development demands arising from the science and technology programs supporting DoD weapons development and warfighting support systems. The DoD HPCMP includes four Major Shared Resource Centers (MSRCs)—“supercomputing” Centers:
- ERDC – Army Engineering Research and Development Center at Vicksburg, MS
- ASC – Air Force Aeronautical Systems Center at Dayton, OH
- ARL – Army Research Laboratory at Aberdeen, MD
- NAVO – Naval Oceanographic Office at Stennis Space Center, MS.

These four centers have DoD’s biggest high-performance computing (HPC) facilities. Forty percent of DoD’s HPC power is in Mississippi, at NAVO and ERDC MSRCs. These four MSRCs are used by DoD researchers at DoD centers and at universities and in industry with DoD contracts throughout the country.

Computational Simulation and Design Center (SimCenter)
The mission of the ERC Computational Simulation and Design Center (ERC SimCenter) is to serve Mississippi State University, the U.S. government, and industry through research and development of advanced computational modeling, simulation, and design of physical systems to solve real-world problems. The ERC SimCenter was formed in July 2000 as part of the Engineering Research Center (ERC) within the College of Engineering at MSU. The ERC SimCenter was formerly the Computational Fluid Dynamics Laboratory at MSU's National Science Foundation Engineering Research Centers (NSF ERC). Its research advanced the NSF ERC mission by reducing the time and cost required for complex field simulations of increased fidelity and scope for practical engineering analysis and design problems using high-performance computing. This achievement was made possible by advances in unstructured grid generation, accurate solution algorithms, scalable parallel computing, large-scale solution visualization, design optimization algorithms, user interfaces, and fully integrated simulation and design systems. The ERC SimCenter has conducted modeling and simulation demonstrations of this advanced technology for
design and analysis of submarines, surface ships, rotary and fixed-wing aircraft, launch vehicles, tactical missiles, automobiles, turbomachinery, and blood pumps for sponsors such as DoD, NASA, Nissan, and many others. The ERC SimCenter has a critical mass of computational research, development, and application specialists who comprise a focused multidisciplinary team. This team will continue to leverage basic and applied research and education in computational engineering to develop new enabling technology for computational modeling, simulation, analysis, and design.

Construction Materials Research Center (CMRC)

The Construction Materials Research Center (CMRC) within the Department of Civil Engineering at Mississippi State University was established to educate graduate engineers and industry in the field of construction materials and improve the quality of the transportation infrastructure through fundamentally sound research efforts focused on emerging materials, equipment and methods.

Diagnostic Instrumentation and Analysis Laboratory (DIAL)

Diagnostis Instrumentation and Analysis Laboratory (DIAL) at Mississippi State University is a multidisciplinary group of scientists and engineers focused on solving important problems in energy, the environment, industrial processes, and infrastructure.

Since its inception in 1979, DIAL’s mission has been to enhance its customers’ performance through measurement and testing. DIAL performs this mission for a diverse group of customers ranging from the U.S. Department of Energy to NASA, from industrial giants like Dow Chemical to small companies like Mississippi Ethanol. A research center within the College of Engineering, DIAL is located in the Mississippi Research and Technology Park.

DIAL’s 70 professional and support staff are housed in a state-of-the-art 58,000 square foot facility containing 16 laboratories and a high-bay area that allows testing at up to pilot-plant scale. An additional high-bay area has recently been constructed that will support large-scale testing. DIAL has a highly capable analytical lab that supports DIAL’s own projects as well as solving difficult analytical problems for industrial clients.

DIAL’s measurement capabilities primarily involve optical or acoustic techniques. DIAL can test industrial technologies either at its facilities in Starkville, MS, or at its customers’ locations. DIAL has carried out tests in its test beds for many customers, including DOE’s Ames Lab, SRI, and NASA’s Stennis Space Center. DIAL also has two mobile facilities which can go to a customer’s site at virtually any time, bringing highly sophisticated yet rugged instrumentation to bear on a customer’s problems.

Emerging Materials Research Laboratory (EMRL)

The EMRL unit within the Department of Electrical and Computer Engineering was established to serve as a center of research in the State of Mississippi in the field of wide-bandgap semiconductor technology. This exciting field is where the next generation of advanced semiconductor devices will be developed, and EMRL will ensure that the state of Mississippi plays an active role in this important field of research. The Emerging Materials Research Laboratory is housed in a class 10,000 clean room with class 1,000 workstations. The principal equipment of EMRL is a high-temperature, RF-induction-heated Chemical Vapor Deposition (CVD) system for growing state-of-the-art single-metal-deposition equipment, oxidation furnaces, and microelectronics device processing facilities. Characterization capabilities include electrical characterization and optical microscopy. To ensure that EMRL’s research benefits from the latest technological developments, active research collaborations with industry, government laboratories and academia are maintained within the United States and in Europe.

ERC (formerly known as the Engineering Research Center)

The Engineering Research Center (ERC) was created in 1990 by the University and the National Science Foundation as an interdisciplinary research center within the College of Engineering. Its primary mission was to enhance global competitiveness of United States industry by reducing the time and cost necessary for complex field simulations for engineering analysis and design. Such problems were among the computational grand challenges of the nation’s High Performance Computing and Communication Program and were cited by DoD and DoE as critical technologies for the 1990s and beyond. Only a close collaboration among computational engineers, computer scientists and engineers, mathematicians and application engineers can achieve the necessary advances. The ERC was formed to provide such a cross-disciplinary environment to support this research.

With the growth of research in the Engineering Research Center, computational science and engineering was identified in 2000 as a priority area of the University. In 2001 the mission of the Engineering Research Center was revised and expanded into a multi-college institute named the ERC.
The ERC is a coalition of member centers and groups that shares a common core objective of advancing the state-of-the-art in computational science and engineering using high-performance computing; a common approach to research that embraces a multidisciplinary, team-oriented concept; and a commitment to a full partnership among education, research, and service.

The ERC is currently comprised of the following five independent centers and groups: Center for Advanced Vehicular Systems, Center for Computational Sciences, Center for DoD Programming Environment and Training, Computational Simulation and Design Center, and GeoResources Institute.

**High Performance Computing Laboratory (HPC)**

The High Performance Computing Laboratory (HPC) concentrates on the design of high performance systems software for scientific and commodity computing environments. Emphasizing semi-analytical approach to the understanding of complex systems such as networks and numerical libraries, the HPC Lab has projects that span the gamut from gigabit/s communication subsystems, to numerical algorithms for huge, sparse linear systems of equations, to object-oriented applications that utilize the infrastructure to solve real problems. Standards-based approaches to computer software are emphasized, in that good ideas are pushed into standards whenever possible, to help assure their acceptance, or to find better paths that can also be adopted by industry and government. The High Performance Computing Lab is supported by NSF, DOD (DARPA), DOE, and industry. Work is undertaken at the Department of Computer Science and Engineering where a well-equipped laboratory is housed and also at the Engineering Research Center where interdisciplinary work is underway.

**High Voltage Laboratory (HVL)**

The High Voltage Laboratory is a part of the Department of Electrical and Computer Engineering and serves as an independent, non-industrial, university center for high voltage engineering. The mission of the HVL includes: research evaluation/testing, and education activities. The principal objective of this multi-purpose laboratory is to meet the research and evaluation/testing needs of industry, utilities, and government and provide the necessary environment for an academic program associated with high voltage engineering. Current research projects in the area of high voltage engineering include: lightning protection of electrical power transmission and distribution lines and substations; electrical breakdown mechanism in high voltage polymer insulation lightning impulse performance of composite insulation; electrical degradation of high voltage polymer insulators; and lightning protection of marine vehicles. The HVL frequently offers short courses in the area of high voltage engineering.

**Industrial Assessment Center (IAC)**

The primary mission of the Industrial Assessment Center (IAC) is to serve the energy-related needs of small and medium-sized manufacturers within a geographic radius of approximately 150 miles of the Mississippi State University campus. This is accomplished by analyzing the operating characteristics and energy requirements of manufacturing facilities to identify and recommend specific opportunities to conserve energy and/or utilize alternate energy sources, to improve productivity and minimize waste production, and to report the findings to the manufacturer together with estimates of their implementation costs, payback periods, and returns on investment. The center fulfills its mission through site visits to plants which are carried out by the center director or a designated, approved professional from the faculty or research staff of the institution.

**Micro Cooling, Heating, and Power and Bio-Fuel Center (Micro-CHP)**

The Micro Cooling, Heating, and Power (Micro-CHP) and Bio-Fuel Center at Mississippi State University is a joint effort among the Departments of Mechanical Engineering and Agricultural and Biological Engineering, the Swalm School of Chemical Engineering, and the Mississippi Agricultural and Forestry Experiment Station (MAFES). The work of the Center focuses on the three action areas: demonstration, education, and research. Cooling, Heating, and Power (CHP) is a promising technology for increased energy efficiency through the use of distributed electric and thermal energy delivery systems at or near end-user sites. CHP systems would promote energy reliability and self-sufficiency for many industrial and agricultural applications. The Micro-CHP and Bio-Fuel Center develops and optimizes CHP systems suitable for agricultural, residential, and small commercial buildings. In addition, the Center develops and validates design tools for CHP applications and educates the public on the benefits of CHP systems.

The biomass generated in the region is a candidate energy source to fuel different types of engines for CHP systems. Bio-fuels can be produced from sources such as animal wastes and wood byproducts. The overall aim of the Center’s bio-fuel research is to develop liquid or gaseous fuels for micro-CHP systems. To accomplish this goal, developmental tasks include identifying and characterizing biomass materials, optimizing gasification processes, and
enriching biofuels made for micro-CHP systems. Thus, micro-CHP systems may expand the growing biomass-based economy in Mississippi and the Southeast.

**Microsystems Prototyping Laboratory (MPL)**

The Microsystems Prototyping Laboratory (MPL) is a part of the Department of Electrical and Computer Engineering. Facilities include a Microelectronics Design Laboratory and a Microelectronics Fabrication Facility. Research is performed for industry and government agencies.

**Mississippi Center for Advanced Semiconductor Prototyping (MCASP)**

MCASP, a unit within the Department of Electrical and Computer Engineering, was established in 1999 to serve as a prototyping laboratory serving both government and private industry for wide-bandgap advanced semiconductor devices. Mississippi State University is a leader in wide-bandgap Silicon Carbide technology, and MCASP helps to move this important new semiconductor technology from the research laboratory to the military and commercial sectors. The center is temporarily housed in the Edwards Laboratory, a stand-alone facility on the east side of the MSU campus, while a new facility is being constructed in the Mississippi Research and Technology Park, just north of the MSU campus.

**National Center for Intermodal Transportation (NCIT)**

The National Center for Intermodal Transportation (NCIT) was founded in 1998 as a University Transportation Center sponsored by the U.S. Department of Transportation. NCIT is a major national resource for educational, research, and technology transfer activities involving intermodal transportation. The NCIT is a collaborative partnership between the University of Denver and Mississippi State University and involves multiple disciplines within each University including business, law, engineering, and science. The enterprise is a full and equal partnership in which the administration and resources of the Center are shared equally.

The NCIT educational programs instruct and inform students about an intermodal transportation system from the precollege level to the professional level. By working with and connecting to both the public and the private sectors, NCIT conducts basic and applied research in areas of concern to the intermodal industry and to scholars in the field. In addition, NCIT has an active program of technology transfer to infuse these findings and results into the transportation community.

**Raspet Flight Research Laboratory (RFRL)**

The mission of the Raspet Flight Research Laboratory (RFRL) is to provide Mississippi State University and the country with leading-edge innovation and proof-of-concept research in flight testing, composite structures development, and rapid prototyping while facilitating the educational goals of the University as a superior training ground and research facility for University students at the graduate and undergraduate level. Established at Mississippi State University (MSU) over 50 years ago, this aeronautical research laboratory is an integral part of the Department of Aerospace Engineering possessing a rich heritage in full-scale flight vehicle development and test, advanced composites development and fabrication, computer controlled manufacturing, and test of prototype composite applications. Among university laboratories engaged in aeronautical research, the RFRL is distinguished as one of the very few with the capability to design, build, and test prototypes of full-scale manned and unmanned aircraft. The RFRL facility is located at Starkville’s George M. Bryan Field Airport and encompasses over 90,000 square feet of enclosed laboratory space. During the past year the laboratory has been engaged in a number of applied technology efforts related to composite tooling fabrication, development of Unmanned Aerial Vehicle (UAV) drawings, engineering and flight test support, and development of airborne acoustic sensors.

**Software Engineering Laboratory (SEL)**

Research in the Software Engineering Laboratory (SEL) in the Department of Computer Science and Engineering addresses fundamental issues for improving the design, construction, maintenance, and use of software products. This includes a variety of areas within software engineering such as software design, software testing, software evolution, software metrics, assurance of software for critical systems, and software engineering for high performance clusters. Research in this laboratory has been supported by NSF.

**Visualization and Graphics Laboratory (VGL)**

Researchers in the Visualization and Graphics Laboratory (VGL) in the department of Computer Science and Engineering participate in projects involving information and scientific visualization, virtual reality, and application-specific visualization tasks. One of the main thrusts is in structured environments for visualization exploration that combine user interface and process modeling research to increase the reality. Researchers in this laboratory work in collaboration with the Visualization Analysis and Imaging Laboratory.
at the ERC. They have access to a range of state-of-the-art facilities including high-performance clusters and virtual reality environments.

**GENERAL REQUIREMENTS FOR ADMISSION**

**DISCLAIMER**
The admission information contained in this publication most accurately describes the admission policies, regulations, requirements and procedures of the University and the Board of Trustees of Institutions of Higher Learning. The University reserves the right to delete, substitute, change or supplement any statement in this publication without prior notice.

**ADMISSION POLICY**
The Office of Graduate Studies is responsible for the administration of the University graduate admission policy. The decision to admit an applicant to pursue graduate study at Mississippi State University is based upon evaluations of both qualitative and quantitative information. All applicants must provide a completed application form, a statement of purpose for graduate study, three letters of recommendation, and records of previous academic achievements. Some degree programs may require additional credentials, such as the results of the Graduate Record Examination or another standardized test score. A summary of degree programs and test scores required for admission is listed on the last page of this publication. All admission applications and supporting documents become the property of Mississippi State University upon receipt and will not be released.

Standardized test scores required by some degree programs represent only one element considered in the admission decision of an applicant. Scores are never used as the sole criterion, but rather are considered in conjunction with other factors such as the applicant's purpose of study relative to the opportunities in the proposed field, the number of positions available in the program, prior professional and employment activities, and/or recommendations of the faculty in the proposed field of study, especially regarding the availability of faculty support for research. Consequently, an applicant who meets the required grade point average (GPA) and/or whose standardized scores fall at or above a competitive level is not automatically granted admission. Admission is granted only to those students considered to have the potential to complete the program successfully and with the knowledge that there are sufficient and appropriate resources available to support the needs of the student.

The decision to admit is restricted to the degree program of study identified in the application and the student may not enroll in another degree program without formal admission. A student may request consideration for admission to an area of study or to a degree level different from the original application at the Office of Graduate Studies. However, once a student is admitted to a degree program and enrolls in classes he/she must remain in that program for one semester before admission will be approved to change to another degree program. Such a request will have the status of a new application for admission, subject to the current conditions. Application is usually made to only one graduate program at a time. Admission to more than one degree program requires the approval of the graduate coordinators of each degree program. (See section on Dual Degrees in this publication.)

The decision to admit is valid for one academic year (with departmental approval) for use in making initial enrollment to a given program. After the lapse of one fall or spring semester without enrollment, an applicant must submit a new application, statement of purpose, and application fee.

The graduate coordinator of each program has the authority to grant admission to the graduate program, which will be communicated to the Office of Graduate Studies and to the applicant. Only a written notice of admission is valid proof of admission. After applications and supporting credentials have been received, applicants for admission are notified of the action taken on their application. Admission to Mississippi State University for graduate study is open to qualified students regardless of race, creed, color, natural origin, handicap, sex, or veteran status.

To be considered for admission all supporting materials should be in the Office of Graduate Studies according to the following schedule.

<table>
<thead>
<tr>
<th>Applying For</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>July 1</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>November 1</td>
</tr>
<tr>
<td>First Summer Term</td>
<td>April 1</td>
</tr>
<tr>
<td>Second Summer Term</td>
<td>May 1</td>
</tr>
</tbody>
</table>

Some departments may have a different deadline. Please refer to the departmental
listings in this publication or the department’s website for degree specific admission deadlines.

**Domestic Applications**—Graduate applicants are encouraged to apply on-line. The electronic application is available at [http://www.msstate.edu/dept/grad](http://www.msstate.edu/dept/grad).

Supporting documents must be submitted by mail. Applicants should request official transcripts from all institutions where undergraduate or graduate course work has been attempted. The student should ask that the official transcript be in a sealed envelope bearing the institution’s return address with the Registrar’s signature or stamp across the envelope flap.

**Self-managed applications must** contain the required materials listed below in one envelope.

<table>
<thead>
<tr>
<th>Domestic Application Checklist</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>✓ $30 (non-refundable) Application Fee</td>
</tr>
<tr>
<td>✓ Statement of Purpose</td>
</tr>
<tr>
<td>✓ Three Letters of Recommendation</td>
</tr>
<tr>
<td>✓ GRE or GMAT scores (if applicable)</td>
</tr>
<tr>
<td>✓ Official Academic Records (transcript from each school attended)</td>
</tr>
<tr>
<td>✓ Signed Computer Certification Form (if applying electronically)</td>
</tr>
</tbody>
</table>

Completed applications received on or prior to the deadline dates above will receive consideration for the desired academic term. Completed applications received after the final deadline dates will not guarantee admission consideration for the desired academic term. It is the applicant’s responsibility to ensure that all supporting materials are received. Some programs may have earlier deadlines for application that override these deadlines. These may be found in the description of the specific programs.

The administrative offices that **directly handle self-managed applications** are:

- College of Engineering  
  P.O. Box 9544  
  Mississippi State, MS  39762-9544
- Department of Geosciences -Distance Learning  
  P.O. Box 5448  
  Mississippi State, MS  39762-5448

If you are NOT submitting your application to one of these colleges directly, return the required materials listed above in one envelope to:

Office of Graduate Studies  
P.O. Box G  
Mississippi State, MS  39762

**Instructions for Reporting Grade Point Averages**—Please compute grade point averages (GPA) using one of the following:

**A-F system**—Multiply the total number of credit hours of As by 4, Bs by 3, Cs by 2, Ds by 1 and Fs by 0. Total these results for the cumulative number of grade points. Add all of the credit hours of As, Bs, Cs, Ds and Fs. Divide the total number of grade points by the total number of credit hours. All courses taken must be included, even if a course was taken again for a higher grade. For schools using a system of plus or minus grades, ignore the plus/minus when computing the GPA. Courses graded on the Pass/Fail or S/U scale should not be included in the GPA.

**Numerical system (0-100 scale 0-10 scale, etc.)**—Report the numerical grade point average and supply official documentation of the grading scale used by each institution.

A statement from the school should accompany international transcripts giving the student’s class rank, the number of students in the class, and where the student placed among them.

**REGULAR ADMISSION**

Any person admitted for graduate study must hold a bachelor’s degree. Normally the undergraduate degree must be awarded by an institution having regional accreditation. But a prospective applicant who holds a bachelor’s degree from an educational institution without regional accreditation may request consideration from the dean of the appropriate college before applying for admission. In either case, the graduate coordinator of the academic program may prescribe specific undergraduate level courses as prerequisites to admission.

In addition to holding an undergraduate degree, an applicant who receives regular admission status must satisfy one of the following minimum graduate admissions requirements based on the level of work completed at the time of the application:

- 2.75 GPA on the last two years (approximately 60-70 semester hours or 90-100 quarter hours) of undergraduate academic course work
- 2.75 GPA on 30 or more semester hours undergraduate credit after earning the first bachelor’s degree
- 2.75 GPA on the last two years (approximately 60-70 semester hours or 90-
Applicants not satisfying the minimum grade point average may be admitted to a degree program as a provisional student if approved by the graduate coordinator of the academic unit offering the degree program. The minimum acceptable undergraduate grade point average for admission as a provisional student is 2.50. (See section on Provisional Admission in this publication.)

Meeting minimum requirements for admission does not necessarily guarantee admission into a program. Each applicant must compete with all other applicants for availability in the respective program.

Requests for exceptions to these requirements for either “regular” or “provisional” admission must be made by the appropriate academic dean who will notify the Office of Graduate Studies in writing. Exceptions will be processed in the Office of Graduate Studies, and a copy will be forwarded to the Office of the Provost.

Graduate program areas may prescribe requirements in addition to the above conditions described for regular admission. Special admission requirements for each program are listed under “Graduate Courses” in this publication. See the specific program for this information.

PROVISIONAL ADMISSION

Students who have not fully met the requirements stipulated by the University and the appropriate program for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. Such students must have as their initial objective advancement to regular status.

Students admitted to provisional status are eligible for advancement to regular status after receiving a 3.00 GPA on the first nine hours of regular graduate level courses taken at Mississippi State University. Neither transfer credits nor credits earned while in Unclassified status can be used to satisfy this nine-hour requirement. Normally, it is expected that students will remove their provisional admission status during their initial semester of enrollment. If a 3.00 is not attained, the provisional student may be dismissed from the graduate program. Academic departments may set higher standards for students admitted provisionally into their programs of study; students admitted with a provisional status should contact the graduate coordinator for the program’s specific requirements. While in the provisional status, students are not eligible to hold a graduate assistantship.

CONTINGENT ADMISSION

A student may be admitted with a University contingency, usually the final transcript recording the bachelor’s degree. In this case, the applicant has met all admissions requirements and is in the final semester of bachelor’s degree work; the student is admitted contingent on the completion of that degree. When the Office of Graduate Studies receives the final transcript, the contingency is removed from the student’s record.

An applicant may also be admitted with one or more departmental contingencies, requirements the department expects the student to fulfill by a certain deadline. Departmental contingencies are monitored by the department and usually are prerequisite courses, standardized tests, or another similar requirement.

UNCLASSIFIED ADMISSION

Unclassified admission is available to students desiring graduate level study for purposes other than an advanced degree, such as for teacher certification. An official transcript showing the student’s bachelor’s degree must be submitted with the application. Students admitted in unclassified status must remain unclassified for one semester before being admitted to a degree program. Nine graduate hours of work received as an unclassified student may be transferred to a degree program with the approval of the department. However, hours completed in this status may not be used to satisfy provisional admission requirements.

In order to be admitted in unclassified status, an international student who does not meet criteria under English Language Requirements for International Students must submit an appropriate TOEFL score for admission.

Current and retired faculty from Mississippi State University will not be required to submit a transcript in order to enroll in a graduate course as an Unclassified Graduate student. Applicants desiring unclassified admission to take graduate level courses in business and economics must have a GPA of 3.00 out of 4.00.
Steps for application and registration as an Unclassified Graduate student are as follows:

1. The student must submit an Unclassified Graduate Application and an official transcript showing proof of an earned baccalaureate degree from an accredited institution to the Office of Graduate Studies, P.O. Box G, Mississippi State University, MS 39762. All applicants must submit a $30 application fee. The Office of Graduate Studies will issue a letter of admission to the student.

2. To register for classes, the student will first obtain an Enrollment Agreement form from the Office of Graduate Studies, Room 116 Allen Hall. For newly-admitted Unclassified Graduate students, a copy of the student’s official transcript will be attached.

3. The student seeks permission from the academic department in which she/he wishes to take a course(s) and approval of the schedule. The student also obtains a “Student Major” override for each course from the department offering the course(s).

4. The student returns to the Office of Graduate Studies to obtain a Registration Access Code (RAC). The director of the Office of Graduate Studies serves as the official advisor for Unclassified Graduate students. The student will be advised that no more than nine semester hours of unclassified graduate work may be applied to an advanced degree at Mississippi State University.

5. The student uses the RAC to register for each course via the web.

READMISSION

Once enrolled in graduate study, a student who subsequently fails to enroll for a fall or spring semester must complete an Application for Readmission before he or she will be permitted to continue enrollment. This form may be obtained in the Office of Graduate Studies or accessed online at http://www.msstate.edu/dept/grad/. Each applicant must submit a $30.00 non-refundable application fee along with the readmission application. If the student has attended another college or university since leaving MSU, an official transcript must be submitted. Readmission to a program requires departmental approval only if the student is not in good standing or if the student requires an extension of time to complete the program. However, academic departments may set higher standards for readmission to specific programs. A student seeking readmission to an academic program should contact the graduate coordinator for specific departmental requirements prior to completing a readmission application.

For readmission to any graduate degree program in the department of Counselor Education and Educational Psychology, the department requires that students who have not been enrolled for one regular semester (fall or spring) submit a readmission form. The graduate coordinator for the department of Counselor Education and Educational Psychology must approve the readmission. If a student has not been enrolled at Mississippi State University for one calendar year, he or she must submit a new application and statement of purpose and be reconsidered for readmission into his or her respective program of graduate study.

UNIVERSITY FACULTY AND STAFF ADMISSION

A staff member of the University who holds an academic rank beyond that of an instructor or the equivalent normally will not be permitted to earn an advanced degree at this institution. This means that assistant professors, associate professors, and professors normally cannot become candidates for an advanced degree at Mississippi State. An instructor who enrolls in an advanced degree program at Mississippi State should not expect promotion beyond that rank as long as he/she is working for the advanced degree.

UNDERGRADUATE ENROLLMENT IN GRADUATE COURSES

An undergraduate student at Mississippi State University who has 12 or fewer hours of undergraduate credit remaining to complete the requirements for the undergraduate degree may seek approval for enrolling in courses for graduate credit in the semester or term he/she is graduating. The undergraduate student should meet the grade point average requirement for regular admission to the particular graduate program. Prior to enrollment, the head of the department of the undergraduate student’s major must seek approval of the college dean by written request endorsed by the instructor or appropriate administrator of the unit in which graduate courses are to be taken. An undergraduate student may take up to nine graduate credit hours. The combination of undergraduate and graduate credit hours may not exceed 13 hours. Any exception to the stated criteria must be approved by the Associate Provost. (Per Graduate Council, effective May 2004.)

ADMISSION TESTS

Graduate admissions tests available at MSU are the Graduate Record Examination (GRE), the
Graduate Management Admissions Test (GMAT), and the Miller Analogies Test (MAT). The Test of English as a Foreign Language (TOEFL) is also available.

The computer-based tests offered are the GRE, the GMAT, the MAT, and the TOEFL. Information can be obtained from the Computer-Based Testing Center located at 54 Magruder Street or by calling 662-325-6610. The mailing address is Computer-Based Testing Center, Mail Stop 9747, Mississippi State, MS 39762.

Paper-based testing is available for the GRE subject area only. For information concerning paper-based tests, contact the Counseling and Testing Services located in Room 100, Lee Hall or by calling 662-325-2091. The mailing address is Director of Testing, P.O. Box NL, Mississippi State, MS 39762.

INTERNATIONAL STUDENTS

Priority Processing—To be considered for admission, all supporting materials should be in the Office of Graduate Studies according to the following schedule.

Applying For                     Deadline

Fall Semester........................May 1
Spring Semester..................September 1
First Summer Term ..............March 1
Second Summer Term .......March 1

Some departments may have different deadlines; please refer to the departmental listings in this publication for degree specific admission deadlines.

Because of anticipated delays in obtaining visas, applicants are encouraged to submit admission materials by January 1 for consideration for the fall semester. Applicants should request official transcripts from all institutions where undergraduate or graduate course work has been completed. The student should ask that the official transcript be in a sealed envelope bearing the institution’s return address with the Registrar’s signature or stamp across the envelope flap.

Self-managed applications must contain the required materials listed below in one envelope.

International Application Checklist

✓ Application (if not applying electronically)
✓ $30 non-refundable Application Fee
✓ Statement of Purpose
✓ Three (3) Letters of Recommendation
✓ GRE or GMAT scores (if applicable)
✓ Official Academic Records (in native language along with translated copies if appropriate)
✓ Document of Support Form must be completed, including all required signatures
✓ Bank Letter or other Document of Financial Support
✓ TOEFL Scores
✓ Signed Computer Certification Form (if applying electronically)

Completed applications received after the final deadline dates will not guarantee admission consideration for the desired academic terms. It is the applicant’s responsibility to ensure that all supporting materials are received.

The administrative offices that handle self-managed applications are:

• College of Engineering
  P.O. Box 9544
  Mississippi State, MS 39762-9544
• AOCE—Geosciences Distance Learning
  P.O. Box 5247
  Mississippi State, MS 39762

A student NOT submitting an application to one of these colleges directly should send the required materials listed above in one envelope to:

The Office of Graduate Studies
PO Box G
Mississippi State, MS 39762-6305

ENGLISH LANGUAGE REQUIREMENTS FOR INTERNATIONAL STUDENTS

An International student, except as noted below, must have a TOEFL (Test of English as a Foreign Language) score of 475 (CBSS-Computer-Based Score Scale 153) or higher to be considered for admission to Mississippi State University.

Exceptions to this score include the following requirements:

• the College of Veterinary Medicine requires a minimum score of 500 (CBSS-173);
• the College of Education requires a minimum score of 550 (CBSS-213),
except the Department of Curriculum and Instruction which requires a minimum score of 600 (CBSS-250) for admission to master’s and doctoral level programs;

- the College of Business and Industry requires a minimum score of 575 (CBSS-233); and
- the Department of Art requires a minimum score of 600 (CBSS-250).

Several departments in other colleges also have a minimum TOEFL requirement higher than 475 (CBSS-153). The applicant should check the requirements of the specific department.

An international student holding one or more degrees (baccalaureate or higher) from a college or university in the U.S. is not required to submit English language test scores for admission.

Similarly, an international student from a country where English is the first language, as documented by a statement on the high school graduating certificate that English is the official (first) language of the country, and who holds one or more degrees (baccalaureate or higher) from a college or university where English is the first language is not required to submit English language test scores. However, such student, after admission and registration at Mississippi State University and upon the recommendation of the department, may be required to schedule one or more ESL (English as a Second Language) courses.

To be admitted in Unclassified graduate status (non-degree-seeking), an international student who does not meet criteria noted above must submit an appropriate TOEFL score.

An international student not holding a U.S. degree (baccalaureate or higher) who desires to transfer to Mississippi State University from another U.S. college or university and does not have a current (not over two years) national TOEFL score must retake the TOEFL and score 475 (CBSS-153) or higher.

**English as a Second Language Procedures for International Students**

Effective January 1992, the following procedures were implemented to satisfy the English language proficiency for international graduate students:

A qualified student who attains a national TOEFL (Test of English as a Foreign Language) score of 550 (CBSS-213) will be considered proficient in English and given full admission to graduate study. In those programs with a TOEFL requirement higher than 550, a student must attain this higher score or be admitted contingent on satisfying this departmental requirement or its equivalent as defined by that program.

A student admitted to the University with a national TOEFL of less than 550 (CBSS-213) is required to enroll in the appropriate ESL requirements beginning with the initial enrollment period. These requirements, depending on the score, are listed below:

1. A qualified student with a score between 525-549 (CBSS 193-210) will be required to enroll in ESL 5323 Academic Research and Writing. This course is designed specifically for international graduate students who need assistance in their writing, research, and editing skills. This course is graded on a pass/fail basis. The student required to take ESL 5323 Academic Research and Writing will be permitted to enroll in appropriate graduate courses at the same time. (Change from EN 1103 to ESL 5323 effective January 2005 per Graduate Council.)

A student whose TOEFL score is not 525 (CBSS-193) or higher is not eligible for a graduate assistantship until the language proficiency requirement is satisfied.

2. A qualified student with a TOEFL score between 500 and 524 (CBSS 173-190) is required to enroll on a credit basis in ESL 5120, an intensive English course especially designed for international students by the English as a Second Language Center. This course is graded on a pass/fail basis. The student will not be allowed to register for other courses while enrolled full-time in the English language course unless given special permission by the Director of Graduate Studies.

A student enrolled in ESL 5120 will complete the course when he or she has passed the English Proficiency Exam consisting of grammar, reading, writing, oral, and aural skills; has attended the English immersion class regularly for at least one semester; and has done satisfactory work. The student is then ready for ESL 5323 Academic Research and Writing, and the TOEFL score is no longer a factor.

3. A qualified student with a TOEFL score between 475 and 499 (CBSS153-170) is required to enroll on a credit basis in ESL 5120, an intensive English language course especially designed for international
students by the English as a Second Language Center. This course is graded on a pass/fail basis. The student will not be allowed to register for other courses while enrolled full-time in the English language course unless given special permission by the Director of Graduate Studies.

A student enrolled in ESL 5110 will complete the course when he or she has passed the English Proficiency Exam consisting of grammar, reading, writing, oral, and aural skills, has attended the English immersion class regularly for at least one semester, and has done satisfactory work. Such student is then ready for ESL 5120, and the TOEFL score is no longer a factor.

4. A student enrolled in ESL 5110 who completes the ESL program requirements on an accelerated basis will be awarded a Certificate of Completion by the English as a Second Language Center. The student will enroll in ESL 5323 Academic Research and Writing the subsequent semester and will be exempt from the requirement to enroll in ESL 5120 in the ESL program.

5. A student with a TOEFL score below 475 (CBSS-153) will be enrolled directly in the ESL Center on a non-credit basis. In order to subsequently be considered for admission to graduate study, the student must submit a minimum national TOEFL score of 475 (CBSS-153). A qualified student who submits a minimum national TOEFL score of 475 (CBSS-153) along with a Certificate of Completion from the ESL Center may be admitted on a conditional basis. The student will be required to register for ESL 5323 Academic Research and Writing. In addition to this English course, the student may also register for graduate courses in his or her degree program. The student who successfully completes this course is considered to have attained the necessary English proficiency for continued graduate study and is therefore exempt from further developmental English courses or TOEFL testing.

6. The Director of Graduate Studies will monitor the program and certify each graduate student as he or she fulfills the English proficiency requirements.

7. In summary, the course requirements for international students admitted with a Test of English as a Foreign Language (TOEFL) score of less than 550 are as follows:

<table>
<thead>
<tr>
<th>Score Range</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>550 [213 CBSS]</td>
<td>Regular Admission</td>
</tr>
<tr>
<td>525-549 [210-193 CBSS]</td>
<td>ESL 5323</td>
</tr>
<tr>
<td>500-524 [190-173 CBSS]</td>
<td>ESL 5120</td>
</tr>
<tr>
<td>475-499 [170-153 CBSS]</td>
<td>ESL 5110</td>
</tr>
<tr>
<td>Below 475 [153 CBSS]</td>
<td>non-credit ESL classes (International applicants in this category will not be admitted to graduate study but may subsequently be considered for admission as described in category 5.)</td>
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</tbody>
</table>

ESL Center
The ESL Center in the Division of Academic Outreach and Continuing Education is responsible for the administration of the intensive English language courses for those individuals not admitted to graduate study. (All tuition and fees for full-time students in the ESL Center are paid directly to the Center). The courses offered by the ESL Center are taught by faculty members of Mississippi State University.

Admission
An applicant who does not attain the TOEFL score required for admission into the desired academic program but who attains a score of 475 (CBSS-153) may be given contingent admission into the program. When the required ESL course work is completed, the contingent status will be removed.

A student who does not attain a TOEFL of 475 (CBSS-153) will be admitted into the ESL Center where she or he will be a full-time student studying English. Upon successful completion of the intensive English language program and attainment of the minimum national TOEFL score required for consideration for admission, 475 (CBSS-153), the student will complete the application process for admission.

ADMISSION PROCEDURE
An individual who wishes to apply for admission to graduate study and who possesses qualifications appropriate to the above-described criteria can access information and application materials and apply online on the MSU website at http://www.msstate.edu/dept/grad/. An applicant can also e-mail a request for an application packet to gradapps@grad.msstate.edu. The mailing address to request an application packet is:
The academic year comprises two regular semesters, beginning in August and January, and a summer session beginning in May. An individual who submits an application for admission should act promptly to see that all required supporting documentation is also sent. Applicants are advised that all documents needed to support an application for admission should be received at least by the dates given in the Critical Dates section of this publication. An individual must have a valid admission status in the Office of Graduate Studies to secure enrollment in graduate study.

Admission for graduate study is limited to the pursuit of requirements for the degree and the field of study as specified in the application and statement of purpose.

Application for graduation admission, including the application and other requirements listed on the application, must be submitted in the following instances:

1. An individual who is pursuing the requirements of one graduate degree and desires to pursue the requirements of another graduate degree;
2. An individual who has completed the requirements of one graduate degree and who desires to pursue the requirements of another graduate degree;
3. An individual who desires to pursue a graduate degree in a field of study different from the requirements of a current admission; or
4. An individual who received a “letter of admission” but did not enroll for the semester admitted.

LEGAL RESIDENT STATUS
Students are classified as in-state or out-of-state for the purpose of paying University fees. The Office of Graduate Studies will make the initial classification at the time a student’s application for admission is processed. The burden of proof for establishing residency resides with the applicant. If a student misrepresents his or her status, that student will be responsible for paying the fees that should have been required and will be subject to disciplinary action or dismissal from school. The University Registrar is authorized to change a student’s residence status upon receipt of evidence that the student is improperly classified.

LEGAL RESIDENT STATUS

The following state laws, court decisions and Institutions of Higher Learning policies apply in determining the residential status of students for the purpose of enrolling and paying fees at a state-supported institution of higher learning:

No student may be admitted to any institution of higher learning as a resident of Mississippi unless his residence has been in the State of Mississippi preceding his/her admission. Residence shall be as defined in Mississippi Code Sections 37-103-7 and 37-103-13 unless excepted in this chapter. § 37-103-3, Mississippi Code of 1972. Residency requirement for purpose of being admitted as state resident; definition of residence.

A person who has entered the State of Mississippi from another state and enters an educational institution is considered a nonresident. Even though he/she may have been legally adopted by a resident of Mississippi, or may have been a qualified voter, or landowner, or may otherwise have sought to establish legal residence, such a person will still be considered as being a nonresident of Mississippi if he/she has entered this state for the purpose of enrolling in an educational institution. § 37-103-5, Mississippi Code of 1972. Residence of person entering state for purpose of attendance at educational institution.

Legal Residence of a Minor. For purposes of determining whether a person pays out-of-state or in-state tuition for attendance at universities, community and junior colleges, the residence of a person less than twenty-one (21) years of age is that of the father, the mother or a general guardian duly appointed by a proper court in Mississippi. If a court has granted custody of the minor to one (1) parent, the residence of the minor is that of the parent who was granted custody by the court. After the death of the father, the residence of the minor is that of the mother. If the parents are divorced, the residence of the minor is that of the parent who was granted custody by the court, or, if custody was not granted, the residence continues to be that of the father. If both parents are dead, the residence of the minor is that of the last surviving parent at the time of that parent’s death, unless the minor lives with a general guardian of his or her person duly appointed by a proper court of Mississippi, in which case his residence becomes that of the guardian. A student who, upon registration at a Mississippi institution of higher learning or community college, presents a transcript demonstrating graduation from a Mississippi secondary school and who has been a secondary school student in Mississippi for not less than the final four (4)
years of secondary school attendance shall not be required to pay out-of-state tuition. This section shall not apply to the residence of a person as it relates to residency for voter registration or voting. § 37-103-7, Mississippi Code of 1972. Legal Residence of a Minor.

Legal Residence of an Adult. The residence of an adult is that place where he or she is domiciled; that is, the place where he or she actually resides with the intent of remaining there indefinitely, or of returning there permanently when temporarily absent. § 37-103-13, Mississippi Code of 1972. Legal Residence of an Adult.

Removal of Parents from Mississippi. If the parents of a minor who is enrolled as a student in an institution of higher learning move their legal residence from the State of Mississippi, the minor is immediately classified as a nonresident student. § 37-103-11, Mississippi Code of 1972. Removal of Parents from Mississippi.

Twelve Months of Residence Required of Adult Students. No student may be admitted to any institution of higher learning as a resident of Mississippi unless his or her residence, as defined herein above, has been in the State of Mississippi for a continuous period of at least twelve months after becoming 21 years old, and immediately preceding registration for the period concerned (see factors regarding residency below).

Residence Status of a Married Person. A married person may claim the residence of his or her spouse, or may claim independent resident status as any other adult. § 37-103-15, Mississippi Code of 1972. Residence Status of a Married Person.

Children of Parents Who Are Employed by Institutions of Higher Learning. Children of parents who are members of the faculty or staff of any institution under the jurisdiction of the board of trustees may be classified as residents without regard to the residence requirement of twelve months, for the purpose of attendance at the institution where their parents are faculty or staff members. Full-time faculty and staff are also considered residents. Children or spouses of full-time faculty and staff are not automatically considered residents for tuition purposes at the College of Veterinary Medicine. § 37-103-9, Mississippi Code of 1972. Children of Parents Who Are Employed by Institutions of Higher Learning.

Military Personnel Assigned an Active Duty Station in Mississippi. Members of the armed forces and members of the Mississippi National Guard on extended active duty and/or stationed within the State of Mississippi, except those military personnel whose active duty assignment in the State of Mississippi is for educational purposes, may be classified as residents, without regard to the residence requirement of twelve months, for the purpose of attending state-supported institutions of higher learning and junior colleges of the State of Mississippi. Resident status of such military personnel who are not legal residents of Mississippi, as defined under “Legal residence of an adult” shall terminate upon their reassignment for duty in the continental United States outside the State of Mississippi. § 37-103-17, Mississippi Code of 1972. Military Personnel Assigned an Active Duty Station in Mississippi (amended).

Children of Military Personnel. (1) The resident status of a spouse or child of a member of the Armed Forces of the United States on extended active duty shall be that of the military spouse or parent for the purpose of attending state-supported institutions of higher learning and community/junior colleges of the State of Mississippi during the time that the military spouse or parent is stationed within the State of Mississippi and shall be continued through the time that the military spouse or parent is stationed in an overseas area with last duty assignment within the State of Mississippi, excepting temporary training assignments en route from Mississippi. Resident status of a minor child terminates upon reassignment under Permanent Change of Station Orders of the military parent for duty in the continental United States outside the State of Mississippi, excepting temporary training assignments en route from Mississippi, and except that children of members of the Armed Forces who attain Mississippi residency in accordance with the above provisions, who begin and complete their senior year of high school in Mississippi, and who enroll full time in a Mississippi institution of higher learning or community/junior college to begin studies in the fall after their graduation from high school, maintain their residency status so long as they remain enrolled as a student in good standing at a Mississippi institution of higher learning or community/junior college. Enrollment during school school is not required to maintain such resident status.

(2) The spouse or child of a member of the Armed Forces of the United States who dies or is killed is entitled to pay the resident tuition fee if the spouse or child becomes a resident of Mississippi within one hundred eighty (180) days of the date of death.

(3) If a member of the Armed Forces of the United States is stationed outside Mississippi and the member’s spouse or child establishes
residence in Mississippi and registers with the Mississippi institution of higher learning or community/junior college at which the spouse or child plans to attend, the institution of higher education or community/junior college shall permit the spouse or child to pay the tuition, fees and other charges provided for Mississippi residents without regard to length of time that the spouse or child has resided in Mississippi.

(4) A member of the Armed Forces of the United States or the child or spouse of a member of the Armed Forces of the United States who is entitled to pay tuition and fees at the rate provided for Mississippi residents under another provision of this section while enrolled in a degree or certificate program is entitled to pay tuition and fees at the rate provided for Mississippi residents in any subsequent term or semester while the person is continuously enrolled in the same degree or certificate program. A student may withdraw or may choose not to reenroll for no more than one (1) semester or term while pursuing a degree or certificate without losing resident status only if that student provides sufficient documentation by a physician that the student has a medical condition that requires withdrawal or nonenrollment. For purposes of this subsection, a person is not required to enroll in a summer term to remain continuously enrolled in a degree or certificate program. The person’s eligibility to pay tuition and fees at the rate provided for Mississippi residents under this subsection does not terminate because the person is no longer a member of the Armed Forces of the United States or the child or spouse of a member of the Armed Forces of the United States. § 37-103-19, Mississippi Code of 1972.

Children of Military Personnel. A military person on active duty stationed in Mississippi who wishes to avail himself or herself or his or her dependents of these provisions must submit a certificate from himself or herself or his or her military organization showing the name of the military member; the name of the dependent (if for a dependent), the name of the organization of assignment and its address (may be in the letterhead); that the military member will be on active duty stationed in Mississippi on the date of registration at the state-supported institution of higher learning or junior college of the State of Mississippi; that the military member is not on transfer orders; and the signature of the Commanding Officer, the Adjutant or the Personnel Officer of the unit of assignment with signers’s rank and title. A military certificate must be presented to the registrar of the state-supported institution of higher learning or junior college of the State of Mississippi each semester or trimester at (or within ten days prior to) registration each semester for the provisions hereof to be effective. § 37-103-21, Mississippi Code of 1972. Certification of Residence of Military Personnel.


Petition for Change of Residency Classification. A person who enters the State of Mississippi from another state and enters an educational institution is considered a non-resident. Any person who has after attaining the age of twenty-one years and has since his or her twenty-first birthday established residency and resided within the State of Mississippi for twelve consecutive months may upon 1) sworn affidavit and other representation and 2) proof of financial independence petition for a change in residency classification for the purposes of fees and tuition assessment. Residency changes are not retroactive and the following conditions apply: 1) The institution may make reasonable inquiry into the validity of the petitioner’s claim and 2) Such petition for change of residency must be received prior to the first day of class of the term for which the student is applying for residency.

Factors Regarding Residency—Although domicile and residency for educational purposes are largely matters of intention, this intention is determined objectively from the facts and circumstances surrounding a claim of in-state residency. Some of the factors relevant to determining residency include: -Actual physical residence of habitation -Length of time at actual physical residence- Residence used for income tax, loan, banking and other purposes -Voter registration -Motor vehicle registration (Persons moving into the state on a permanent basis have thirty days to register vehicles.) -Driver’s license held (Persons moving into the state on a permanent basis have sixty days to acquire driver’s licenses.) -State to which personal income taxes or other taxes paid -Status of income sources -Location of bank, savings, and other accounts

Responsibility for Reporting Change—It is the individual student’s responsibility to report immediately to the Registrar any change, which
will affect his or her residence status under these regulations.

Institutions of Higher Learning (College Board) and University Policies concerning nonresident tuition—In addition to state laws and regulations, the University has established certain IHL Board approved regulations concerning the payment of non-resident tuition. Mississippi State University (except the College of Veterinary Medicine) may waive a percentage of the non-resident tuition for the following groups of students:
1. Those who are currently awarded athletic scholarships.
2. Those that are currently awarded band scholarships.
3. Those that are currently awarded choral scholarships.
4. All graduate students holding assistantships. Rules applicable to these awards may be found in the Graduate Studies Bulletin or in the Graduate Assistant Handbook. Both publications are available on the MSU Web: www.msstate.edu/dept/grad/publications.
5. Children of Mississippi State University alumni. (Application deadline is April 1.) (For this purpose, an alumnus or alumna is defined as one who has earned a minimum of 48 MSU undergraduate credit hours or 30 MSU graduate credit hours of course work or received a degree from Mississippi State University. Graduate students must maintain a B (3.0) grade point average to continue eligibility for this award. STUDENT AFFAIRS OP 91.178: Policy on out-of-state tuition waivers is available on the MSU Web: http://www.msstate.edu/dept/audit/mainindex.
6. Non-resident students who are certified participants in The Academic Common Market.

REQUIRED MEASLES/RUBELLA IMMUNIZATION
In May 1992 the State College Board authorized State-supported universities to require all students enrolling fall 1993 and after to provide proof of immunity to Measles and Rubella. Prior enrollment at Mississippi State University does not automatically clear your immunization requirement. You will not be allowed to register for classes until this requirement has been met. Prior enrollment at Mississippi State University does not automatically clear you from immunization updates. This proof consists of one of the following: documented history of two doses of measles vaccine and one of rubella, usually given as MMR, (Measles, Mumps, Rubella). The first of these immunizations MUST have been given AFTER 12 months of age and AFTER 1968.

a. Immunizations given prior to the age of 12 months or before 1968 are not valid.
b. Serologic confirmation of immunity to measles AND rubella (must be confirmed by laboratory report).
c. Documented history of physician diagnosed measles and rubella.

Temporary waivers are available for:
1. pregnant women with a physician’s letter of confirmation and expected date of confinement.
2. women suspecting pregnancy.

Permanent waivers are given for the following reasons:
1. persons born before January 1, 1957.
2. documented proof of a significant life-threatening allergic reaction to this particular vaccine.
3. disease that will cause a permanent contraindication to immunization.

If you wish to confirm your status, please contact Longest Student Health Center by email at health@saffairs.msstate.edu or by phone at 662-325-0706. Additional information regarding this requirement is available at: http://www.health.msstate.edu.

NONDISCRIMINATION POLICY
Mississippi State University does not discriminate on the basis of race, color, religion, national origin, sex, age, disability, or veteran status.

In conformity with Title IX of the Education Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, Section 402 of the Vietnam Era Veterans Adjustment Assistance Act of 1974, and The Americans with Disabilities Act of 1990, the Office of Diversity and Equity Programs, P.O. Drawer 6199, Mississippi State, Mississippi 39762, office telephone number 662-325-2493, has been designated as the university official responsible for the coordination of efforts to carry out responsibilities and make investigations of complaints related to discrimination.
Each student is responsible for completing all requirements established for his or her degree by the University, college, and department. It is the student’s responsibility to learn these requirements; a student’s advisor or counselor may not assume that responsibility. Any substitution, waiver, or exemption from any established departmental or college requirement or academic standard may be accomplished only with the approval of the student’s dean. Exceptions to University requirements, including the general education (core) requirements, will be authorized only with the approval of the student’s dean and the Office of Academic Affairs.
1. Registration
A graduate student admitted to a degree program meets with his or her advisor before registration to determine the course(s) for which the student should register. The courses are recorded on the student’s program of study along with the semester they will be taken. An unclassified graduate student who has been admitted to graduate study but not to a degree program is advised by the Office of Graduate Studies (see Unclassified Admission). An Unclassified Graduate student can take any number of graduate-level courses. If the student is subsequently admitted to a degree program, up to nine unclassified hours, with the department’s consent, can be applied toward the degree.

2. Continuous Registration
A graduate student who has completed all course work and/or has been admitted into candidacy and/or lacks only the completion of the thesis or dissertation must be continuously registered during at least two academic terms (summer is considered one term) per year. The academic year begins with the fall semester. This includes:

- A doctoral student who has completed the course work, passed the comprehensive/preliminary examinations, and is working on his or her dissertation.
- A student in an educational specialist program who has completed all the course work but has not taken or passed the final examinations.
- An educational specialist student who has completed all the course work, passed the examinations, and is working on his or her thesis.
- A master’s degree student who has completed the course work but has not taken or passed the final examinations.
- A master’s degree student who has completed all the course work, passed the examinations, and is working on his or her thesis.

A student who fails to be continuously registered will pay tuition and registration fees for missed terms at current rates.

3. Transcripts
A graduate from another institution seeking admission for graduate study must furnish official transcripts from all former institutions attended at the time he or she files the formal application for admission (see General Requirements for Admission). A student who wishes to transfer graduate work must receive permission from the graduate advisor and must submit an official transcript to the Office of Graduate Studies. (See Transfer Approval form available on the Office of Graduate studies website for information in completing this process.) Courses in which grades of C or less were earned or grades of Pass/Fail or S/U are not accepted for transfer to a graduate degree program. Mississippi State University does not accept transfer courses through the American Council of Education.

4. Forms
Each graduate student should become thoroughly familiar with the forms required for his or her degree program. The Office of Graduate Studies website (www.msstate.edu/dept/grad) Forms and Procedures section contains the forms in fill-in PDF format. These forms and their proper use are critical as the student begins, progresses through, and completes the degree program. The report of examination results is the only form not available to the student; the major professor or graduate coordinator will request this form from the Office of Graduate Studies at the appropriate time.

5. Program of Graduate Study and Graduate Committee Membership
Each program area has defined a general outline that indicates the structure of an acceptable program of study for each graduate degree available in the program area. A student admitted to pursue a graduate degree must establish a proposed program of study which designates all courses, research skill requirements, and activities that must be completed satisfactorily to earn the desired degree. In the development of the program of study, the graduate student must consult with a graduate faculty member (major professor) identified to the student by the department head or the graduate coordinator of the degree program area.

In conjunction with his or her graduate committee, a student develops a program of study. If a master’s or educational specialist thesis option is chosen, the program of study must contain at least 24 hours of course work (at least half of which is at the 8000 level or above) and at least six hours of research/thesis. If a non-thesis option is chosen, the program of
study will consist of all course work with a minimum of 30 hours; at least 15 hours of 8000-level courses are required for a non-thesis master’s or educational specialist degree (per Graduate Council, April 2004). Some Directed Individual Study courses, numbered at the 7000 level, may be approved for use in meeting the requirement of courses at the 8000 or 9000 level. The major professor and at least one-half of the graduate committee must hold academic appointment and must be MSU employees; exceptions to this rule can be approved by the appropriate dean. When the major professor is not an MSU employee, the majority of the graduate committee must hold academic appointment and must be MSU employees.

During the first semester of enrollment the master’s or educational specialist graduate student will obtain the signature of the major professor and others as required by the policy on the committee request form and on the program of study. In those programs of study that include one or more minor fields of study, the student will obtain the signature of the designated faculty member and the graduate coordinator of each minor field of study. The student’s signature is required on his or her program of study. Master’s and educational specialist degree programs of study are to be filed in the departments until the semester in which the student applies for graduation.

A doctoral student is required to file a program of study form and committee request form with the departmental graduate coordinator by the second semester of enrollment; the coordinator forwards the form to the Office of Graduate Studies when the student applies to take the comprehensive/preliminary examination. If applicable, any change(s) to a program of study require the signature of the major professor, others as required by the policy of the program, the graduate coordinator, and the student.

6. Changes in Graduate Committee Membership

Occasionally a student may need to adjust his/her graduate committee membership due to diverging research interests, faculty retirements, etc. Such changes are accomplished by completing the committee change form provided by the Office of Graduate Studies. This form requires signatures of all entering and departing committee members. Should any disagreements arise concerning committee membership, the student should follow the appeal of academic status procedure.

7. Graduate Prerequisites

The requirements for undergraduate majors and minors in the several undergraduate colleges of the University ordinarily constitute the prerequisites for pursuing graduate study in those fields, provided not fewer than 18 hours for a major and 12 hours for a minor are required. In subject-matter courses, 24 hours or more usually are required in the undergraduate major field. The department concerned will decide when prerequisites are satisfied.

8. Minors

A minor is a block of current course work completed at Mississippi State University in a program or approved concentration other than the major program and must be approved for a master’s, educational specialist, or doctoral program (per Graduate Council March 2005). The option of a minor is at the sole discretion of the major area in which the program is offered and must be designated on the student’s program of study. A minor may not include coursework from a previous degree.

A minor may be obtained only in an established area of graduate study. A minor in a master’s program requires 1) at least nine hours of graduate course work; 2) approval of the student’s major professor; 3) a member from the minor area on the student’s graduate committee; 4) approval of the graduate coordinator from the minor area; and 5) any additional requirements as specified by the major and minor areas.

A minor in a doctoral program requires: 1) at least 12 hours of graduate course work; 2) approval of the student’s major professor; 3) approval of the graduate coordinator from the minor area; 4) a member from the minor area on the student’s graduate committee; and 5) any additional requirements as specified by the major and minor areas.

9. Normal Schedule

Nine through 13 hours of graduate courses is considered a normal full load for fall and spring semesters. With approval of the appropriate college or school dean, a student may register for a maximum of 16 hours. In a summer session of five weeks, a maximum load is seven credit hours, 13 hours for the 10-week term, or a total of 13 hours for the summer semester.

A student may not schedule courses on campus and in external programs concurrently to exceed the maximum number of credits that may be earned in a semester or term.

A student receiving an assistantship appointment will be required to maintain a full-time enrollment status throughout the full appointment period. Audit hours may not be used to satisfy the full-time enrollment requirement. Assistantship requirements are stated in this publication in the section labeled Assistantship, as well as in the Graduate Assistant Handbook.
10. Limited Loads
If a graduate student has responsibilities in addition to his or her studies, such as those of an assistantship, a limited load of no more than 13 semester hours should be scheduled in a regular semester or six hours in a summer semester. Guidelines are specified in the Graduate Assistant Handbook.

11. Auditing
A student is not permitted to enter class as an auditor during registration and the first ten days of class in the semester unless authorized by the dean of the college or school and the Registrar, upon recommendation of the instructor concerned. A student may not change from credit to audit or audit to credit status after the tenth day of class. An auditor is not required to take tests and/or examinations or to prepare other written assignments. Otherwise, conformity to regular classroom decorum is the same as that required for all students. At the time the request for audit is approved, the professor will inform the auditor of attendance expectations.

12. Academic Add/Drop Policy
a. Add Policy - During a fall or spring semester a student has up to five University class days in which to add a class.

b. Drop without a penalty - A student has up to 10 University class days into the semester to drop an individual course without a penalty.

c. Drop after 10 days through 30th class day into the semester – A student who elects to drop a course during this period must receive the approval of his/her advisor, will be assigned a W on his or her transcript, and will be assessed a fee. The advisor who permits the drop will validate the student’s last day of class attendance.

d. Drop after 30th class day into the semester – A student cannot drop courses after this six-week period except in documented cases of serious illness, extreme hardship, or failure of the instructor to provide any assessment of the student’s performance. This must be approved by the student’s advisor and academic dean. The dean who permits the drop will validate the student’s last day of class attendance. A student receiving permission to drop will receive a W on his or her transcript and be assessed a fee of $50/course. Poor academic standing is not justification for dropping a course.

e. Faculty are expected to provide students with specific evidence or assessment of class performance within the first six weeks.

f. A student enrolled in one course must process a withdrawal from the University rather than processing a schedule change (Add/Drop Form).

The policy on dropping and adding classes is online at http://www.msstate.edu/dept/audit/mainindex/1201.html. Please refer to the Graduate Academic Calendar in this publication or on the Office of Graduate Studies website for specific dates regarding add/drop activity.

13. Grades
No grade below C is accepted for graduate credit. A candidate for a degree must average B or higher on all courses attempted for graduate credit after being admitted to a degree program (i.e., program and non-program courses). Graduate students are not permitted to enroll for courses carrying pass/fail credit.

14. Academic Performance
Continuous enrollment in the University or in a specific graduate program is dependent upon a satisfactory evaluation of academic performance and progress toward the completion of a specified degree. A student’s progress is considered satisfactory unless judged to be unsatisfactory by the department and/or the dean of the college offering the program. Unsatisfactory performance may be defined as the failure to maintain a B average in graduate courses attempted, a grade of U, D, or F in any course, more than two grades below a B, failure of the comprehensive/preliminary examination, an unsatisfactory evaluation of a thesis or dissertation, failure of the research defense, or any other failure of a required component of one’s program of study. Any one of these, or any combination of these, may constitute the basis for the termination of a student’s graduate study in a degree program; individual programs have the right to establish their own criteria.

To be eligible for the comprehensive/preliminary examination, a graduate student must 1) maintain an overall B average in all graduate courses attempted after being admitted to a degree program [i.e., program and non-program courses] and 2) be enrolled at MSU. Individual programs may have additional requirements.

15. Degree Completion
To be eligible for graduation, a student must have completed all program requirements and have achieved a B average or better in all course work taken at Mississippi State University after being admitted to a degree program (i.e., program and non-program courses). Individual programs may have additional requirements.

A student has the right to appeal any grade or change in his or her academic status. (See sections titled: Appeal of Grades and Appeal of Academic Status.)

16. Incomplete/Change of Grades
A grade of I (Incomplete) may be submitted in lieu of a final grade when the student, because of illness, death in his or her immediate family, or similar circumstances beyond his or her control, is unable to complete the course requirements or to take final examinations. Graduate students who receive a grade of I must complete all work no later than the last regular class day of the next semester (excluding summer) whether the student is enrolled or not. Failure of graduate students to remove an I grade during the specified time will result in an automatic grade of F. Once a grade of I has been converted to an F because of a student’s failure to complete the necessary course work or a lapse of the allowable time, no additional grade change will be allowed except under extreme circumstance(s) as approved by the Vice President for Academic Affairs (per Graduate Council, October 2004). I grades are not permitted for thesis/dissertation credits. A student cannot graduate with grade(s) of I on his/her transcript.

17. Grade Appeal Process
Composition of the Board
The Academic Review Board will be composed of one member of the teaching faculty from each of the schools or colleges of the University; there shall be one alternate from each of the schools or colleges. Members will be elected by their University division (in the same manner and at the same time as Faculty Senate representatives). The member and alternate who represent the Graduate Studies and are elected by the graduate faculty shall be full members of that faculty. In addition, to the elected member, the Board will also include a student recommended by the student association president and three faculty members at large appointed by the Provost and Vice President for Academic Affairs, who should ensure adequate minority representation. The student member serves one year. Faculty members shall serve two years, and alternates two years, beginning on July 1 following their election; they may be reelected.

A. Statement of Policy
Student performance should be evaluated according to academic criteria, not on the basis of opinions or conduct in matters unrelated to academic standards. The instructor (defined as one who has the responsibility for a class, directed individual study, or thesis) has the authority in class over all matters affecting the conduct of the class, and including assignment of the grades.

Students shall have protection through orderly appellate procedures against prejudiced or capricious academic evaluation. The method of grading by instructors should be made clear to students, and instructors should be required to justify disputed grades. All records on which grades are based should be retained on file a minimum of six months.

Appeals associated with the fairness of grades must be filed with the instructor’s department head within 45 days of the beginning of the next regular semester (fall, spring) following the term in which the grade is assigned.

The grade appealed shall remain in effect until the appeal process is concluded. Any associated effects (loss of eligibility or privilege of any kind) shall be invoked, even though an appeal is pending or planned.

B. Appeal Procedure
1. The student is to take the complaint to the instructor involved.
2. If the student does not obtain satisfaction, the student may acquire a grade appeal form from any academic dean’s office or from the Registrar’s Office, complete it, and take it to the instructor’s department head. The department head acknowledges the receipt of the form and returns the duplicate to the student.
3. If the department head, upon reviewing the complaint, is unable to resolve the matter to the satisfaction of the student, the student may appeal to the academic dean (reviewing dean) to whom the department head reports. The department head shall immediately forward the appeal form with a letter of recommendation to the dean. The dean will then send copies of all materials to the student’s dean, if different from that of the department head’s dean.
4. If the reviewing dean is unable to resolve the matter to the satisfaction of the
student, the student may appeal to the Provost and Vice President for Academic Affairs. The reviewing dean shall immediately forward the appeal form with a letter of recommendation to the Provost and Vice President for Academic Affairs who should be furnished a complete case file. The Provost and Vice President for Academic Affairs may then refer the case to the Academic Review Board.

5. Hearing Procedure - The following guidelines are established for the direction of the Academic Review Board conducting formal hearings on academic appeals:

- The instructor and student will be informed in writing by the Provost and Vice President for Academic Affairs of the place and time of the hearing.
- The instructor and student will be allowed 72 hours to prepare for the hearing. The instructor may request additional time by showing cause. The instructor and student shall be advised that they have the right to appear with an advisor if they so choose.
- The majority of the hearing Board Member (or their alternates) will constitute a quorum. In the event a quorum is not present, both the student and instructor must agree to proceed with the hearing, otherwise the hearing will be rescheduled.
- Academic Review Board hearings are of a private, confidential nature. They are closed to the public.
- The instructor will be asked to appear in person to present his/her case to the Academic Review Board, and the instructor may call witnesses in his/her behalf. However, the instructor may elect not to appear before the Review Board. Should the instructor elect not to appear, the hearing shall be held in his/her absence. The failure of an instructor to appear must be noted without prejudice; however, the Board will act upon the evidence presented to it and would prefer to have the faculty member present. The student must appear in person to present his/her case and may also call witnesses in his/her behalf.
- It will be left to the discretion of the Academic Review Board whether or not to permit the introduction of any particular written statement. If written evidence is to be presented against the instructor, the instructor shall be allowed to see the actual signed statements at least 72 hours before the hearing. Unsigned statements shall not be admissible as evidence.
- The instructor or student will have the right to challenge any member of the Academic Review Board for good cause and request that the individual be disqualified for that hearing. This dismissal of a challenged hearing Board member shall be at the discretion of the hearing Board Chairperson. Should the Chairperson be directly involved in the case, the chairperson shall excuse himself/herself and a Chairperson Pro Tempore shall be selected for that hearing.
- The instructor will be presumed to have assigned the proper grade until it is proven otherwise. The burden of proof to the contrary rests with the student.
- The instructor and student will have an opportunity to be present during the presentation of all evidence and to challenge the admissibility of any evidence. They will have the opportunity to question all witnesses. The Chair of the hearing Academic Review Board shall supervise any questioning of this nature and, at the Chair’s discretion, strike any questions which are not relevant to the purpose of the hearing. The Board may question the instructor, the student, and any witnesses.
- All matters upon which the decision may be based must be introduced and discussed at the hearing, and the decision shall be based solely upon the evidence presented. Under no circumstances shall any mention be made during the hearing of past charges made against the instructor.
- The recommendation in each case will be made by a majority of
Academic Review Board members present and voting.

- Recommendations of the Board will be issued in writing to the Provost and Vice President for Academic Affairs. The Provost and Vice President for Academic Affairs shall transmit the recommendations and the Provost's decision to the instructor and the student.

C. Retention of Records—As part of the University's grade appeal procedure, faculty members are required to keep records on grades, examinations, projects, term papers, and other pertinent material not returned to the students on file for a minimum of six months.

18. Repeat Policy

With the approval of the graduate coordinator and the college dean, a student may repeat one course per degree. Approval should be secured prior to repeating the course. This policy applies to all courses (even those not on the program of study) taken as a graduate student related to a specific program. Repeated courses must be taken at Mississippi State University.

A specific course may be repeated only once except for those approved for repeated credit (e.g. internships, special topics, individual studies, thesis, dissertation, etc.). Both courses will remain on the permanent transcript and both grades will be computed in final averages. No additional program credit hours will be generated from a repeated course.

19. Course Examinations

Written examinations in courses taken for graduate credit are required, except for graduate seminars and Directed Individual Study courses, for which other appropriate methods of evaluation may be used at the discretion of the professor.

20. Appeal of Academic Status

To appeal one's academic status, e.g., dismissal from a program or failure to pass an examination, a student must present the request and related explanation in writing to the graduate coordinator and/or head of the department offering the program. The department head/Coordinator will review this appeal with the appropriate college or departmental committee and render a recommendation.

If the appeal at the program level is unsuccessful, a student may then appeal to the college dean. In making a decision, the dean will consult with an appointed subcommittee of the Graduate Council. If this appeal is unsuccessful, the student may then appeal to the Provost and Vice President for Academic Affairs.

The above process does not apply to academic status affected by misconduct. A separate policy exists in that case.

21. Academic Integrity

Adherence to the highest standards of academic integrity is vital to achieving the goals and objectives of the educational process. The exhibition of honesty in all areas of academic life is basic to maintaining this integrity. Dishonesty compromises and threatens the pursuit and acquisition of knowledge and therefore will not be tolerated.

Academic dishonesty is the unauthorized giving, taking, or presenting any information or material by a student with the intent of aiding himself/herself or another on any academic work which is to be considered in the determination of the course grade or completion of other academic requirements. Academic dishonesty includes, but is not limited to, deceptive acts such as the following:

a. using unauthorized notes or materials (crib notes, books, etc.) as an aid during an examination;

b. substituting the examination answers of another for the student’s own; that is, copying another’s examination paper;

c. acquiring, receiving and/or possessing an examination or assignment or any part thereof, at any time or in any manner not prescribed by the instructor;

d. submission by a student of any course materials or activities, not his/her own, to be evaluated by the instructor in determining the student's course grade, allowing such a submission to be made for the student, or making such a submission for another;

e. using the ideas, organization, or words of others, whether it be from a book, article, paper or file, in any assignment to be evaluated by the instructor without giving proper credit following accepted rules of citation (plagiarism).

The instructor may supplement this definition as necessary to provide a more comprehensive definition of academic dishonesty. Any such supplements to this definition will be communicated to the student so as to give the student reasonable notice thereof. For related procedures and sanctions, see the 1997 Faculty Handbook or visit the website http://msuinfo.ur.msstate.edu/handbook.fac/1997/index.htm1.

22. Withdrawal from the University
Any student leaving the University prior to the end of the period of enrollment, except for temporary absences, must initiate withdrawal procedures in the office of his/her college Dean. Unclassified students must initiate withdrawal procedures in the Office of Graduate Studies. By completing this procedure, the student will prevent future difficulties in obtaining transcripts, or in reentering the University, and will avoid having a grade of F automatically recorded for all courses taken during the semester. A student who withdraws after the 10th day of classes will receive grades of W for each course scheduled. No withdrawals will be allowed during the last ten class days before the beginning of final examinations for the fall and spring semesters and during the last five class days prior to the beginning of examinations for each five week/ten week summer term.

The withdrawal of any student shall not be effective on a date prior to the actual date of withdrawal except in documented cases of serious illness or extreme hardship, and then only upon recommendation of the student’s academic dean. If the effective date of withdrawal and the actual date on which the withdrawal occurs are separated by more than one calendar year, the Provost and Vice President for Academic Affairs must approve the withdrawal upon recommendation of the academic dean.

The student is responsible for payment of all tuition and fee charges unless he or she either CANCELS HIS OR HER SCHEDULE OR WITHDRAWS FROM SCHOOL. See the refund schedule on the website http://www.controller.msstate.edu (click on Refund Policy for details of refund amounts at various stages of cancellation or withdrawal). Failure to take appropriate withdrawal action may result in significant payment obligations. A student dropping the only course in which he or she is enrolled must process an Official Withdrawal Form, not the Add/Drop Form.

23. Withdrawal from an Individual Course
(See No.10, Academic Add/Drop Policy.)

24. Attendance at Commencement
A candidate for a degree should be present at commencement for the official conferring of the degree. A candidate for a degree must file an application or before the final date set by the Registrar each semester. (See Academic Calendar in the front of this publication.)

1. Graduate Committee
Each student’s program of study is directed by a committee of Graduate Faculty. A graduate committee (at the master’s level) must consist of at least three members, all of whom must be appointed members of the Graduate Faculty. The committee is composed of the major professor and two committee members, one of whom may be a minor professor. The major professor and at least one-half of the graduate committee must hold academic appointment and must be MSU employees; exceptions to this rule can be approved by the appropriate dean. When the major professor is not an MSU employee, the majority of the graduate committee must hold academic appointment and must be MSU employees (per Graduate Council, February 2005). Non-thesis programs with no variation in program of study and/or with standardized examinations are not required to have committees (per Graduate Council, May 2004).

2. Course Requirements
A minimum of 30 semester hours of graduate study is required in all master’s degree programs. If a thesis option is chosen, the program of study must contain at least 24 hours of course work and at least six hours of research/thesis; one-half of course work for a thesis master’s degree must be at the 8000 level or higher. If a non-thesis option is chosen, the program of study will consist of all course work with a minimum of 30 hours; at least 15 hours of course work must be 8000-level courses (per Graduate Council, April 2004). Some Directed Individual Study courses, numbered at the 7000 level, may be approved for use in meeting the requirements of courses at the 8000 or 9000 level.

3. Candidacy
A student applies for admission to candidacy at the time of application for the degree. To be eligible for graduation at the next graduation, the student must have applied for graduation by the deadline shown in the Critical Dates at the front of this publication. In order to graduate, a student should have removed any conditions attached to his or her admission or any condition imposed at a later time.

4. Majors and Minors
A student is required to complete the minimum number of hours required on the program (Summary Graduate Council 2001-02) and may be permitted to enroll in another area, a minor, to satisfy the remaining credit hours. If a minor is taken, at least nine hours of current graduate course work taken at MSU in a program or approved concentration other than

General Master’s Degree Requirements
the major department are required on the student’s program of study with approval of the student’s major professor, the minor professor, and the graduate coordinator from the minor area (per Graduate Council March 2005). Any additional requirements specified by the major and minor areas must also be shown on the program of study. A minor may be obtained only in an established area of graduate study. Minors may not include course work from a previous degree.

5. Transfer Credit
Transfer credit hours from another university may be accepted toward fulfilling requirements for a master’s degree at MSU provided they were earned in programs fully accredited by the appropriate regional and national accrediting bodies; provided they contribute to the current program of graduate study; and provided they were taken within the six-year time limit for the current program at completion of the degree. Courses in which grades of C grades or less were earned or grades of Pass/Fail or S/U are not accepted for transfer to a graduate degree program. For most degree programs, transfer credit may not constitute more than nine semester hours of course work. However, for master’s programs requiring more than 40 hours, transfer credits may constitute up to 30 percent of the total credit hours. Transfer hours may not be used to satisfy provisional admission requirements. Transfer credit from one master’s degree program at MSU toward a second MSU master’s is also limited to a maximum of nine credit hours. MSU does not accept transfer of courses through the American Council on Education (per Graduate Council March 2005).

6. Off-Campus Credits
Graduate credit hours toward advanced degrees may be earned at the Meridian, Vicksburg, and Stennis Graduate Centers to the extent that courses for developing systematic programs of study are available. In addition, credits toward advanced degrees may be earned in other external programs (e.g., Division of Continuing Education) provided they contribute to a systematic program of study, are approved by the student’s graduate committee, and do not exceed one-half of the credits, excluding thesis credits, required for the degree. Graduate credit is not awarded in the correspondence study program.

7. Directed Individual Study
Not more than six semester hours of graduate credit may be earned in Directed Individual Study courses.

8. Residence Requirement
There is no general residency requirement for the master’s degree. However, departments, schools, and colleges may set degree-specific residency requirements.

9. Foreign Language
A reading knowledge of one foreign language is required for all candidates for a Master of Arts degree in English and for a Master of Arts degree in history (thesis-option only). Likewise, it may be required of candidates in other departments where deemed necessary. Special reading courses for graduate students are offered in French, German, and Spanish. Contact the Department of Foreign Languages for course offerings and availability.

10. Time Limit
The time limit for fulfilling the requirements for a master’s degree is six years. An Extension of Time form, available on the Office of Graduate Studies website, can be used to request a one-time, one-year extension. The request must be signed by the major professor and the dean of the college and submitted to the Office of Graduate Studies (per Graduate Council, May 2005).

11. Thesis
A student in a graduate program leading to the degree of Master of Arts (Plan One) or Master of Science (Plan One) is required to present a thesis. An announcement of thesis defense form must be submitted to the Office of Graduate Studies two weeks prior to the defense. A grade of S for satisfactory or a grade of U for unsatisfactory is given for thesis credit. Using other letter grades for such credit is not permitted. A student may not graduate with grades of U.

A minimum of six semester hours is assigned to thesis research and writing. A manual describing the regulations governing thesis and dissertation preparation, revised November 2001, must be followed and may be obtained from the Office of Graduate Studies, 116 Allen Hall. This manual is available online at http://www.msstate.edu/dept/grad/thesis_guidelines.htm.

a. The thesis in final completed form must be submitted to the Library by the date posted in the Academic Calendar in front of this publication.

b. A thesis committee composed of the major professor as chairman and at least two other members appointed by the major professor with approval of the college dean.
will judge content and style of the completed thesis.

Following acceptance, the student will conduct an oral defense of the thesis before the committee. Announcement of the defense must be submitted on the Announcement of Doctoral/Educational Specialist/Master’s Examination form to the Office of Graduate Studies two weeks prior to the defense. The student must be enrolled at MSU in the semester the thesis is defended. The student or a committee member may request that the Office of Graduate Studies appoint an outside observer to attend the thesis defense. To allow careful and thoughtful evaluation and time for clarification and discussion, the examination for the thesis defense should be scheduled no sooner than seven days after the final manuscript has been distributed to all committee members. The student must be registered for at least one hour of course work to be eligible to defend the thesis.

After successful defense by the candidate, the original and one copy will be endorsed with the signatures of the major advisor, the departmental graduate coordinator, members of the committee, and the dean of the college. The original copy of the thesis will be checked by the Library for approval for binding.

c. The original and one copy of the thesis must be submitted to the Library. This original and copy must be unbound and of satisfactory quality. They must be placed in separate clasp envelopes and properly identified as “Original” and “1st Copy.” Both should be on 20-pound, acid-free bond paper of at least 25% cotton content. Do not use any type of erasable bond or mimeograph paper. Three original copies of the abstract, not to exceed 150 words, and one copy of the title page must also be submitted at this time; these documents are also on 20-pound, acid-free bond paper of at least 25% cotton content. It is the student’s responsibility to check with his/her department to determine the number of copies the department requires.

d. A candidate for the master’s degree is required to pay the cost of having his/her thesis typed and bound. A binding fee of $12.00 is charged each student who submits a thesis as a partial fulfillment of requirements for graduation. This fee is used to bind two copies of the thesis for permanent filing in the University Library and must be paid to the Controller by the time the student submits the final copies of the thesis to the Library. The binding of additional copies of the thesis is the student’s personal responsibility.

e. All theses must be microfilmed by University Microfilms, Inc. and may be copyrighted. The microfilm fee is $45.00, and the copyright fee is $45.00.

f. The student must be enrolled at MSU in the semester the thesis is submitted to the Library.

g. A student completing a thesis in the College of Engineering or in the Department of Curriculum and Instruction (in the College of Education) is required to submit the thesis to the Library electronically. Contact the Library for electronic submission requirements; the information is also available on the Office of Graduate Studies website.

Thesis research is subject to review and approval by the University’s Institutional Review Board (IRB).

12. Final/Comprehensive Examinations
A final comprehensive examination is required of all degree candidates except those in programs that allow no variation from a required program of study (per Graduate Council, May 2004). M.A. and M.S. candidates may be required to take an oral examination, a written examination, or both. Non-thesis degree candidates must take a written or oral comprehensive examination, or both, and must register for this examination with the graduate coordinator of the major program. This examination should show three things: 1) the candidate’s thorough familiarity with the literature in the field of major interest; 2) the relation of the special subject to allied subjects; and 3) the level of general knowledge and training, including use of oral and written English. A student must be enrolled at MSU during the semester the exam is administered, must have a 3.00 GPA on all course work after being admitted to the program (i.e., program and non-program courses), and must be within six hours of completing the course work excluding internship/practicum courses (per Graduate Council September 2004). A student who fails the exam cannot apply to retake it until four months from the date of the original test. Two failures result in the student’s being dropped as a master’s degree candidate. The program graduate coordinator or student’s major professor should request the Examination Results form from the Office of Graduate Studies.
Master of Arts
1. The Master of Arts degree is offered in anthropology, economics, English, foreign languages, history, and political science.
2. Two plans are offered for the Master of Arts degree, designated as Plan One and Plan Two. Plan Two is offered at the option of the department.
   - Plan One requires a minimum of 30 semester hours of graduate hours with 24 hours earned as course work and six hours earned as research/thesis.
   - Plan Two requires a minimum of 30 semester hours of graduate level course work.
3. A reading knowledge of one foreign language is required of students majoring in English literature and history (thesis option only).

Master of Science
1. The Master of Science degree is offered in agricultural and extension education, biological sciences, the physical sciences, the agricultural sciences, agricultural economics, computer science, business administration, education, engineering, geosciences, mathematics, psychology, sociology, statistics, forestry, wildlife and fisheries science, forest products, and veterinary medical science.
2. The Master of Science degree program in veterinary medical science has additional admission and graduation requirements. Check the appropriate section under the departmental course listing for details.
3. The Master of Science degree program in education has specific requirements. Check the appropriate section under the departmental course listing for specific details.

Master of Agribusiness Management
The Master of Agribusiness Management (MABM) program is an interdisciplinary degree between the College of Agriculture and Life Sciences and the College of Business and Industry. It is administered by the Agribusiness Institute. The program is designed to prepare students for employment in the management of agribusiness.

Admissions—An applicant for admission to graduate study must hold a bachelor’s degree from a fully recognized four-year educational institution that has unconditional accreditation with appropriate regional accrediting agencies. He/she must meet the admission requirements of Graduate Studies and the Master of Agribusiness Management Program. Admission is based primarily on past performance, letters of recommendation, and the Graduate Management Admission Test (GMAT) scores. Regular admission to graduate study in the Master of Agribusiness Management Program requires a minimum grade point average (last four semesters of undergraduate work) of 3.00/4.00. When a student is deficient in one of the criteria cited, the student’s application, nevertheless, may be considered for admission based on the strength of other materials contained in the student’s application. However, reasonable minimum levels of performance must be achieved in both the applicant’s GPA and GMAT scores. International applicants not holding degrees from U.S. institutions must submit a TOEFL (Test of English as a Foreign Language) report of 575 or higher to be considered for admission.

The Master of Agribusiness Management degree program requires a minimum of 34 hours of course work and a comprehensive academic examination.

M.A.B.M. Core—The MABM program requires 34 hours with a core of 27-28 hours and 6-7 hours of electives:
- ACC 8112 Financial Accounting and Report Analysis. 2 hours
- AEC 8122 Agribusiness Strategy Field Study (Waived for students participating in AEC 6530 Internship in AEC/AGBM). 2 hours
- AEC 8312 Economic and Social Environment of Agribusiness Firms. 2 hours
For more information regarding the MABM, please write Coordinator, Agribusiness Institute, P.O. Box 9755, Mississippi State University, Mississippi State, MS 39762; call 662-325-2750; or email office@agecon.msstate.edu.

**Master’s Degree Programs in Business**

Accreditation—The College of Business and Industry (COBI) is a member of AACSB-The International Association for Management Education. Both the undergraduate and graduate programs are accorded full accreditation by AACSB, the duly recognized national accrediting agency for professional schools of business.

**Degrees Offered**

- **Master of Business Administration** (MBA) See Business Administration section in this publication.
- **Master of Arts in Economics** (MA) See Finance & Economics section in this publication.
- **Master of Professional Accountancy** (MPA) See Accountancy section in this publication.
- **Master of Science in Business Administration** (MSBA) See Finance and Economics section in this publication.
- **Master of Science in Information Systems** (MSIS) See Management and Information Systems section in this publication.
- **Master of Taxation** (MTX) See Accountancy section in this publication.

Candidates for any of these degrees must apply through the Office of Graduate Studies and meet the general requirements for admission to graduate study. Policy governing specific programs to fulfill the curricula requirements is determined by the Graduate Faculty of the College of Business and Industry, and the School of Accountancy, while the graduate coordinator of Graduate Studies in Business, or the director’s designee, must approve the student’s schedule of courses each semester.

**Application Materials**—Application materials or answers to questions regarding any of the graduate programs in business may be obtained from Graduate Studies in Business located in 247 McCool Hall on the MSU campus or by directing requests to Graduate Studies in Business at any of the following addresses or phone numbers.

**Address:** ............................... P.O. Box 5288
Mississippi State, MS 39762

**E-mail:** ................................... gsb@cobilan.msstate.edu

**Phone:** ................................. 662-325-1891
Application Deadlines

The following deadlines apply to applications for admission to all master’s programs in the College of Business and Industry and the School of Accountancy.

Applying For   Deadline
Fall Semester.....................................March 1/July 1
Spring Semester....................................November 1
Summer Term.............................................April 1

Completed applications received after these dates will not guarantee admission consideration for the desired academic term. It is the applicant’s responsibility to ensure that all supporting materials are received. Students seeking assistantships for the fall semester should have all materials in by March 1 to be considered for initial assistantship appointments.

The applicant should be aware that the transmittal of Graduate Management Admission Test (GMAT) or the Graduate Record Examination (GRE) scores from the Educational Testing Service generally takes about six weeks and occasionally longer if irregularities occur. Thus, the exams should be taken at least six weeks prior to the above deadlines in order to be considered for admission to the desired term.

Registration Policies—During registration, preference will be given to those students who are officially enrolled in a master’s or doctoral program at MSU. Qualified unclassified graduate students and non-business administration majors are welcome to take classes but will only be registered after all degree-program COBI graduate students have registered.

All Unclassified Graduate students and non-business administration majors who wish to take graduate classes in Business must sign up in Room 247 McCool Hall. Their names will be placed on a waiting list, and they may register for available classes as space permits. Students who do not follow this procedure may be pulled from classes if space is not available.

Graduate Courses—Each candidate’s program, beyond any foundation courses, will consist of at least 30 hours of core courses and other courses falling within the limits prescribed below. At least eighty percent of the hours required beyond the foundation for any of the master’s degrees must be taken from courses offered exclusively for graduate credit. The remaining courses may be selected with the consent of the advisor from those courses listed in the catalog as acceptable for graduate credit.

Transfer Credit—Transfer graduate credits up to six hours may be accepted toward fulfilling the requirements beyond the foundation requirements for the master’s degree, provided the credits have been earned at a recognized institution and are considered pertinent to the student’s graduate program. These credits are considered part of the student’s program and must adhere to the six-year time limit restriction. Courses with grades below a B and extension credits from other institutions are not acceptable.

Time Limit—The time limit for fulfilling requirements for a master’s degree in business is six years.

Master of Public Policy and Administration

The 42-hour Master of Public Policy and Administration program strives to professionalize and diversify state and local government in Mississippi and the region. The program educates persons capable of functioning as generalist public administrators at the national, state, and local levels of government. The program consists of four facets:

Core Courses—27 Hours
- Administrative Law
- City and County Management or State Government Administration
- Government Organization and Administrative Theory
- Public Budgeting and Financial Management
- Public Personnel Management
- Public Policy
- Public Program Evaluation
- Research Methods in Public Affairs
- Seminar in Public Administration

Elective Courses—12 Hours
Courses tailored to the student’s career objectives.

Internship—Three Hours
Students complete an internship in a public or nonprofit sector agency. The internship is waived for students possessing at least one year of relevant work experience.

Comprehensive Examination
All students must demonstrate an understanding of the curriculum by passing a comprehensive examination.
1. General Information
The educational specialist degree is offered in the College of Education and is comprised of a planned program of a minimum of 30 semester hours above the master’s degree under the direction of a major advisor. If a thesis option is chosen, the program of study must contain at least 24 hours of course work with at least one-half of the course work at the 8000-level or higher and at least six hours of research/thesis. If a non-thesis option is chosen, the program of study will consist of all course work with a minimum of 30 hours; at least 15 hours of 8000-level courses are required for a non-thesis educational specialist degree (per Graduate Council, April 2004). The non-thesis option requires completion of a Directed Individual study. The program is designed to provide advanced course work in education and in other fields and disciplines supplementary to the basic core in the major field. Students enrolled in the educational specialist degree programs in the College of Education should refer to the College of Education Graduate Handbook for specific rules and regulations. Additionally, students should refer to departmental Web pages and/or the most current requirements.

2. Majors
The educational specialist degree is available with an area of emphasis in
- agricultural and extension education,
- counselor education,
- elementary education,
- secondary education,
- school administration,
- special education,
- technology education, and
- school psychology.

3. Prerequisites
The educational specialist degree may be completed only after the student has received the master’s degree from Mississippi State University or another recognized institution. Course prerequisites are determined by the area of emphasis involved. A master’s degree candidate lacking six or fewer hours may enroll in additional courses to complete a normal load and have these courses counted toward the educational specialist degree provided he/she obtains prior approval.

4. Transfer Credit
A maximum of nine semester hours may be transferred from another institution or from off-campus or resident centers of Mississippi State University provided the courses are appropriate to the student’s program, are current (no more than six years old at time of degree completion), and are approved by the graduate committee. A minimum of 21 semester hours must be earned at the Mississippi State University main campus and/or the Meridian Center. Transfer credit may not be used to satisfy provisional admission requirements. Graduate credit is not awarded in the correspondence study programs. MSU does not accept transfer of courses through the American Council on Education (per Graduate Council March 2005).

5. Residence Requirement
The residence requirement for the educational specialist degree is a minimum of 30 weeks. No student will be permitted to complete the educational specialist degree in two summer sessions or equivalent. The residence credit is computed as follows:
   a. During a regular semester, a student taking nine hours or more earns half of the required residence credit or 15 weeks;
   b. During each term of the regular summer school, a student taking four hours or more earns six weeks residence;
   c. A part-time student earns residence equal in weeks to the semester hours scheduled; and
   d. Night classes, Saturday classes, and three-week short term courses carry residence credit equal to the number of semester hours earned.

6. Directed Individual Studies or Thesis
A three-hour directed individual study or six-hour thesis is required. No more than six semester hours of graduate credit may be earned in Directed Individual Study courses.

7. Graduate Committee
Each student’s program of study is directed by a committee of Graduate Faculty. A graduate committee (at the specialist level) must consist of at least three members, all of whom must be appointed members of the Graduate Faculty. Two of the members of the committee will represent the department or the area of program emphasis (per Graduate Council, January 2005). The committee is composed of the major professor and two committee members, one of whom may be a minor professor. If the major professor holds an adjunct appointment, at least one-half of the graduate committee must hold academic appointment and must be MSU employees; exceptions to this rule can be approved by the appropriate dean. When the major professor is not an MSU employee, the majority of the graduate committee must hold academic
appointment and must be MSU employees (per Graduate Council, February 2005). Non-thesis programs with no variation in program of study and/or with standardized examinations are not required to have committees (per Graduate Council, May 2004). The program of study form and the committee request form must be submitted to the Office of Graduate Studies during the student’s first semester.

8. Time Limit

After the student begins the educational specialist program, he/she must complete the program within six years. All courses included on the program of study must be current at the time of completion of the degree. An extension of time form, available on the Office of Graduate Studies website, can be used to request a one-time, one-year extension. The request must be signed by the major professor and the dean of the college and submitted to the Office of Graduate Studies (per Graduate Council, May 2005).

9. Thesis

A student in a graduate program leading to the educational specialist degree may write a thesis as part of the program of study. A thesis defense announcement form must be submitted to the Office of Graduate Studies two weeks prior to the defense.

A grade of S for satisfactory or a grade of U for unsatisfactory is given for thesis credit. Using other letter grades for such credit is not permitted. A student may not graduate with grades of U.

A minimum of six semester hours is assigned to thesis research and writing. A manual describing the regulations governing thesis and dissertation preparation, revised November 2001, must be followed and may be obtained from the Office of Graduate Studies, 116 Allen Hall. This manual is available online at http://www.msstate.edu./dept/grad/thesis_guidelines.htm.

a. The thesis in final completed form must be submitted to the Library by the date posted in the Academic Calendar in front of this publication.

b. A thesis committee composed of the major professor as chairman and at least two other members appointed by the major professor with approval of the college dean will judge content and style of the completed thesis.

Following acceptance, the student will conduct an oral defense of the thesis before the committee. Announcement of the defense must be submitted on the Announcement of Doctoral/Educational Specialist/Master’s Examination form to the Office of Graduate Studies two weeks prior to the defense. The student must be enrolled at MSU in the semester the thesis is defended. The student or a committee member may request that the Office of Graduate Studies appoint an outside observer to attend the thesis defense. To allow careful and thoughtful evaluation and time for clarification and discussion, the examination for the thesis defense should be scheduled no sooner than seven days after the final manuscript has been distributed to all committee members. The student must be registered for at least one hour of course work to be eligible to defend the thesis.

After successful defense by the candidate, the original and one copy will be endorsed with the signatures of the major advisor, the departmental graduate coordinator, members of the committee, and the dean of the college. The original copy of the thesis will be checked by the Library for approval for binding.

c. The original and one copy of the thesis must be submitted to the Library. This original and copy must be unbound and of satisfactory quality. They must be placed in separate clasp envelopes and properly identified as “Original” and “1st Copy.” Both should be on 20-pound, acid-free bond paper of at least 25% cotton content. Do not use any type of erasable bond or mimeograph paper. Three original copies of the abstract, not to exceed 150 words, and one copy of the title page must also be submitted at this time; these documents are also on 20-pound, acid-free bond paper of at least 25% cotton content. It is the student’s responsibility to check with his/her department to determine the number of copies the department requires.

d. A candidate for the educational specialist degree is required to pay the cost of having his/her thesis typed and bound. A binding fee of $12.00 is charged each student who submits a thesis as a partial fulfillment of requirements for graduation. This fee is used to bind two copies of the thesis for permanent filing in the University Library and must be paid to the Controller by the time the student submits the final copies of the thesis to the Library. The binding of additional copies of the thesis is the student’s personal responsibility.

e. All theses must be microfilmed by University Microfilms, Inc. and may be
f. The student must be enrolled at MSU in the semester the thesis is submitted to the Library.

g. A student completing a thesis in the College of Engineering or in the Department of Curriculum and Instruction (in the College of Education) is required to submit the thesis to the Library electronically. Contact the Library for electronic submission requirements; the information is also available on the Office of Graduate Studies website.

Thesis research is subject to review and approval by the University’s Institutional Review Board (IRB).

10. Comprehensive Examination
A student completing the degree must apply for the comprehensive examination in the office of the major advisor, must be enrolled at MSU during the semester in which the exam is administered, and must have a 3.00 GPA in all courses taken after being admitted to the program (i.e., program and non-program courses) (per Graduate Council September 2004). A student who fails the exam cannot apply to retake it until four months from the date of the original test. Two failures result in the student’s being dropped as an educational specialist degree candidate.

Doctor of Philosophy Requirements

1. General Information
In order to earn the doctor of philosophy degree, a candidate must demonstrate mastery of a particular field of knowledge, of the techniques of research, and of the correlation of his/her specialty with the larger areas of knowledge, especially those directly related to his/her own field of interest.

Note—A student enrolled in a doctoral degree program in the College of Education should refer to the College of Education Doctoral Student Guide for specific rules and regulations. Additionally, the student should refer to departmental Web pages and/or the most current requirements.

1. Admission
The candidate for admission must hold a bachelor’s degree from an appropriately accredited institution of higher learning and possess qualifications that indicate ability to do graduate work on the doctoral level, as determined by the Graduate Faculty of the program concerned. Counselor Education requires a master’s degree from a CACREP or CORE accredited program.

2. Graduate Committee
Each student’s program of study is directed by a committee of graduate faculty. The Graduate Committee will be composed of the major professor as chairman who must be a full member of the graduate faculty and from the major field, the minor professor (if applicable), and at least three other members, two of whom are from the student’s major field of interest. The committee is composed of five members if the student has a minor, four members if there is no minor. All committee members must be members of the graduate faculty. The major professor and at least one-half of the graduate committee must hold academic appointment and must be MSU employees; exceptions to this rule can be approved by the appropriate dean. When the major professor is not an MSU employee, the majority of the graduate committee must hold academic appointment and must be employees (per Graduate Council, February 2005). A program of study form and a committee request form must be submitted to the Office of Graduate Studies when the student submits an announcement of the comprehensive/preliminary examination. If applicable, change(s) to the program should be submitted at this time.

3. Course Requirements
At least three academic years beyond the bachelor’s degree are necessary to meet course requirements. The number of course hours will vary according to the specific requirements of the program concerned and the student’s needs.

4. Residence Requirement
Ph.D. students will be required to complete one-half of required course work and all dissertation credits from Mississippi State University. At some time in the doctoral career, the student will be required to devote one full semester (nine hours) or two semesters half-time (six hours each) in residence at Mississippi State University for the graduate program. Only three research hours may be used to meet this requirement.

5. Major and Minor
In establishing the candidate’s graduate program, the Graduate Committee must set up a major and may specify one or more minor or allied fields of study. A minor in a doctoral program must consist of at least twelve hours of
current graduate course work taken at MSU in a program or approved concentration other than the major program; must have approval of the student’s major professor; approval of the graduate coordinator from the minor area; have a member from the minor area on the student’s graduate committee; and satisfy additional requirements as specified by the major and minor areas (per Graduate Council March 2005).

6. Qualifying Examination
Some departments require doctoral students to take a qualifying examination either at the beginning of or during the first year of study for the Ph.D. degree. A student must be enrolled at Mississippi State University during the semester in which the exam is administered and must have a 3.00 GPA after being admitted to the degree program (i.e., program and non-program courses). Candidates for the Ph.D. degree in education or in educational psychology are required to successfully demonstrate competency in the application of research and statistical techniques. Students should refer to the College of Education Doctoral Students’ Guide and the departmental graduate handbook for specific programmatic research requirements.

7. Comprehensive/ Preliminary Examination
The comprehensive/ preliminary examination for admission to candidacy for the degree may be taken only after the student has completed or is within six hours of completing the course work, excluding internship/practicum courses completed. A student must be enrolled at Mississippi State University during the semester in which the examination is administered and must have a 3.00 GPA on all courses attempted for graduate credit after being admitted to the degree program (i.e., program and non-program courses) (per Graduate Council September 2004). The request to take the preliminary examination must be filed by the student with the Office of Graduate Studies at least two weeks prior to the anticipated date of the examination. The student’s program of study must accompany the announcement of comprehensive/preliminary examination. If required, a Change of program of study form should be submitted at this time. The examination must be taken by June 1, if a student intends to graduate in December; by November 1, to graduate in May; and by February 1, to graduate in August. The oral examining committee shall be composed of the student’s specific Graduate Committee. The student or a committee member may request that the Office of Graduate Studies appoint an outside observer to attend the comprehensive/ preliminary examination. A student must be enrolled at MSU during the semester in which the examination is administered. A student who fails this examination cannot apply to take another until four months have elapsed from the date of the original examination. Two failures on this examination will result in the student being dropped from further consideration as a doctoral candidate.

8. Admission to Candidacy
A student will be admitted to candidacy under the following conditions:

a. the dissertation topic selected and approved;

b. the graduate course work satisfactorily completed as deemed appropriate by the Graduate Committee;

c. the research skills requirement(s) completed prior to taking the preliminary examination (if applicable);

d. the final program of study officially approved and accepted in the Office of Graduate Studies and any changes if needed; and

e. the comprehensive/preliminary examination passed.

Upon completion of the above-noted conditions, the Admission to Candidacy form should be sent to the Office of Graduate studies with the examination results.

9. Language and Research Skills
Any foreign language or research skill requirements for the Ph.D. degree are determined by the major department or program. If a program requires a language, a student whose first language is not English may elect to use English for the language requirement. The student may fulfill the requirement by scoring in the 85th percentile (scaled score = 575 or higher) on the Test of English as a Foreign Language.

10. Time Limit
After the student begins the doctoral program, he/she must complete the program within a period of eight years. All courses included on the program of study must be current at the time of completion of the degree. An extension of time form, available on the Office of Graduate Studies website, can be used to request a one-time, one-year extension. The request must be signed by the major professor and the dean of the college and submitted to the Office of Graduate Studies (per Graduate Council, May 2005).

11. Study Elsewhere
Under certain conditions, a student’s Graduate Committee may require a doctoral student to go elsewhere to take a certain number of advanced courses or perform research.
12. Transfer Credit

With the approval of the student's Graduate Committee, graduate course work done elsewhere may be accepted toward fulfilling requirements for a degree at MSU provided they were earned in a program fully accredited by the appropriate regional and national accrediting bodies; provided they contribute to the current program of graduate study; and provided they were taken within the eight-year time limit for the current program. Grades of C or less are not acceptable for transfer credit. Pass/Fail or S/U grades will not transfer. For most degree programs, transfer credit may not constitute more than nine semester hours of course work. In these cases, however, one-half of the course work exclusive of dissertation credit hours and all dissertation credit hours must be taken from Mississippi State University. Transfer hours may not be used to satisfy provisional admission requirements. Mississippi State University does not accept credit from the American Council on Education to a graduate degree program (per Graduate Council March 2005).

13. Dissertation and Defense

The dissertation shall be required of all candidates for the doctorate, and a minimum of 20 semester hours of research for the dissertation must be scheduled. The dissertation must show 1) mastery of the techniques of research and 2) a distinct contribution to the field under investigation and study. The Graduate Committee must approve the dissertation topic, the outline, and the final submission of the dissertation.

Following acceptance, the student will conduct an oral defense of the dissertation before a graduate faculty committee. In order to allow careful and thoughtful evaluation and time for clarification and discussion, it is required that the dissertation be given to the committee no fewer than seven days prior to the final exam.

To qualify for graduation in a given semester, the Final Defense must take place by the “Last day for final examination for doctoral degree” as published in the Graduate Academic Calendar of this publication. A student must be enrolled at MSU during the semester in which the examination is administered. The request to take this examination must be filed by the student with the Office of Graduate Studies at least two weeks prior to the anticipated date of the examination. The oral examining committee shall be composed of the student’s specific graduate committee. The student or a committee member may request that the Office of Graduate Studies appoint an outside observer to attend the dissertation defense. If a written examination is also required, the student’s graduate committee shall prepare the questions and grade the answers. The graduate coordinator of the student’s graduate program is responsible for seeing that the examinations are held and the final results reported to the Office of Graduate Studies. This final report must be filed by the date given in the Academic Calendar in the front of this publication. A student who fails the final examination cannot apply for another until a period of six months has elapsed from the date of the original examination. Two failures on the final examination will result in the student being dropped from further consideration as a doctoral candidate.

After a successful defense by the candidate, the dissertation will be endorsed with the signatures of the major advisor, the school/college graduate coordinator, members of the committee, and the dean of the college. A copy of the dissertation will be checked by the Library for acceptance. The original, including an approved abstract and one copy, both unbound and of satisfactory quality, must be submitted to the Library (see Academic Calendar in front of this publication for dates). Both copies should be on 20-pound, acid free bond paper of 25% cotton content. Use any type of “erasable” bond or mimeograph paper is not permitted. At the time the student presents the two unbound copies of the dissertation to the Library, he/she also must present an extra copy of the title page and three extra copies of the approved abstract (a maximum of 350 words in length) on 20-pound bond paper. A manual describing the regulations governing thesis and dissertation preparation, revised November 2001, must be followed and is obtained from the Office of Graduate Studies, 116 Allen Hall, or online at http://www.msstate.edu/dept/grad/thesis_guidelines.htm. It is the student’s responsibility to check with his/her department to determine the number of copies of the dissertation the department requires.

The College of Engineering and the Department of Curriculum and Instruction (in the College of Education) require dissertations to be submitted electronically. Contact the Library or access the Office of Graduate Studies website for more information.

Dissertation research is subject to review and approval by the University’s Institutional Review Board (IRB).

14. Dissertation Microfilms

The University has an agreement with University Microfilms, Inc. for the microfilming of all doctoral dissertations. Under this agreement, two microfilm copies of the complete dissertation will be made and, if desired, the dissertation will be copyrighted with the copyright in the name of the author. The abstract (maximum 350 words) will be published in the journal “Dissertation Abstracts” and the...
microfilm made available to anyone for use or purchase. The doctoral candidate must pay $100.00 for both copyrighting and microfilming ($55.00 for microfilm and $45.00 for copyright).

15. Binding Fee
The binding fee is $12.00. This fee is used to bind two copies of the dissertation for permanent filing in the University Library and must be paid to the Controller by the time the student submits the final copies of the dissertation to the Library. No provision is made for the binding of additional copies of the dissertation; this is the student’s personal responsibility.

Doctor of Education Requirements

The Doctor of Education (Ed.D.) Degree is offered with a major in education and a concentration in agricultural and extension education, elementary education, secondary education, school administration, and technology. The requirements are as follows:

1. General Information
A student enrolled in a doctoral program in the College of Education should refer to the College of Education Doctoral Students’ Guide for specific rules and regulations. Additionally, the student should refer to departmental Web pages and/or the most current information.

2. Admission
A student who holds a master’s degree or its equivalent from an accredited institution may be admitted to advanced graduate study in education. The applicant’s record, as well as promise of success in the program and as a professional educator, are considered in the admission process.

3. Graduate Committee
The Graduate Committee will be composed of at least five graduate faculty members decided upon by the department in which the area of program emphasis is located and the supporting area and/or minor department. The committee will be composed of a major professor who must be a Level I member of the graduate faculty and from the major field, a member from a supporting or minor area department, a member from a program in education other than the major program and two additional members from the area of program emphasis. The major professor and at least one-half of the graduate committee must hold academic appointment and must be MSU employees; exceptions to this rule can be approved by the appropriate dean. When the major professor is not an MSU employee, the majority of the graduate committee must hold academic appointment and must be MSU employees (per Graduate Council February 2005). The program of study form and the committee request form must be submitted to the Office of Graduate Studies during the second semester of the student’s program.

3. Course Requirements
At least three academic years beyond the bachelor’s degree or a minimum of 90 semester hours beyond the bachelor’s degree are necessary to meet the requirements for the Doctor of Education degree.

4. Residence Requirement
Ed.D. students will be required to complete one-half of required course work and all dissertation credits from Mississippi State University. At some time in the doctoral career, the student will be required to devote one full semester (nine hours) or two semesters half-time (six hours each) in residence at Mississippi State University for the graduate program. Only three research hours may be used to meet this requirement.

5. Supporting Area(s) Examination
A student studying for the Doctor of Education degree also must demonstrate mastery in the supporting or minor area(s). Mastery usually will be demonstrated on a written examination. The examination may be taken after all course work in the supporting area(s) is completed, or it may be taken in conjunction with the written preliminary examination.

6. Comprehensive/Preliminary Examination
The preliminary examination will be taken within six hours of completion of the course work on a planned program and must be completed successfully before admission to candidacy. The student must registered at MSU during the semester of the examination. The comprehensive/preliminary examination will be composed of both written and oral examinations, comprehensive in nature, designed to test the student’s knowledge and understanding in the field of professional education. To be eligible for the comprehensive/preliminary examination, the student must have demonstrated competency in the application of research and statistical techniques, be within six hours of completing all course work, have completed EDF 8313 and EPY 8223 (or the equivalents), have on record in the office of the departmental graduate
were earned in a program fully accredited by the appropriate regional and national accrediting bodies; provided they contribute to the current program of graduate study; and provided they were taken within the eight-year time limit for the current program. Grades of C or less are not acceptable for transfer credit. Pass/Fail or S/U grades will not transfer. For most degree programs, transfer credit may not constitute more than nine semester hours of course work. In these cases, however, one-half of the course work exclusive of dissertation credit hours and all dissertation credit hours must be taken from Mississippi State University. Transfer hours may not be used to satisfy provisional admission requirements. Mississippi State University does not accept credit from the American Council on Education to a graduate degree program (per Graduate Council March 2005).

9. Dissertation

The dissertation is required of all candidates. It must be prepared in accordance with standard practices specified for the dissertation for the Doctor of Philosophy degree. The dissertation must demonstrate mastery of the techniques of research and be a contribution to the field under investigation.

A doctoral student may have a prospectus for the dissertation approved after successfully demonstrating competency in the application of research and statistical techniques. The student usually will register for no more than 10 hours of dissertation research credit prior to completing successfully the written and oral preliminary examinations; exceptions must be approved by the student’s major professor and/or dissertation director. The student must be enrolled at Mississippi State University during the semester in which the dissertation is submitted to the Library. Refer to the Dissertation and Defense under Doctor of Philosophy Requirements section for guidelines.

The request to schedule the Final Defense must be made at least two weeks prior to the anticipated date of the examination. Announcement of the examination should be sent to the Office of Graduate Studies two weeks prior to the scheduled date of the examination. The request to schedule the Final Defense must be made at least two weeks prior to the anticipated date of the examination. Announcement of the examination should be sent to the Office of Graduate Studies two weeks prior to the scheduled date of the examination. The examination will not be scheduled sooner than 10 working days after a copy of the final manuscript has been distributed to all members of the Graduate Dissertation Committee and the unit within which the major field is housed. To qualify for graduation in a given semester the Final Defense must take place at least by the “Last day for final examination for doctoral degree” as published in the Graduate Academic Calendar of this publication. The Final Defense of the Dissertation is open to all interested parties and
copies of the manuscript are available through the unit housing the major.

Dissertation research is subject to review and approval by the University’s Institutional Review Board (IRB).

11. Final Examination
The final examination will be in accordance with specifications listed under the Doctor of Philosophy degree. The student must be enrolled at Mississippi State University during the semester in which the examination is administered.

12. Time Limit
After the student begins the doctoral program, he/she must complete the program within a period of eight years. All course work included on the program of study must be current at the time of degree completion. An extension of time form, available on the Office of Graduate Studies website, can be used to request a one-time, one-year extension. The request must be signed by the major professor and the dean of the college and submitted to the Office of Graduate Studies (per Graduate Council, May 2005).

13. Teaching Experience
The applicant for the Ed.D. degree must have at least three years of acceptable teaching experience, or equivalent, prior to being admitted to candidacy.

LIVING FACILITIES
(See Bulletin of Mississippi State University for details.)
Available housing at Mississippi State University offers a student a variety of living environments. A student applying for student housing must submit an application to Housing and Residence Life, Box 9502, Mississippi State, MS 39762. Contact the Housing office by telephone at 662-325-3555; fax at 662-325-4663; or e-mail at housing@saffairs.msstate.edu. Apply online at www.housing.msstate.edu. Submitted applications must include a $50.00 nonrefundable application fee in order to be processed.

Facilities for Men—The residence halls and apartments available for men provide space for approximately 2,000 students (normal capacity, two persons per room). These include apartments and private rooms for upper-class and graduate students. Charges for rooms in these living units are shown in the section on fees and expenses.

Facilities for Women—The residence halls and apartments available for women provide space for approximately 2,000 students (normal capacity, two persons per room). These include apartments and private rooms for upper-class and graduate students. Charges for rooms in these living units are shown in the section on fees and expenses.

Facilities for Students with Families or Dependents—Aiken Village offers desirable unfurnished apartment facilities for students with families or dependents or for single graduate students. Aiken Village is located approximately one mile from the center of campus. Send requests for details or an application for this housing option to: Housing and Residence Life, Box 9502, Mississippi State, MS 39762 or e-mail at housing@saffairs.msstate.edu. Access the website at www.housing.msstate.edu.

DINING FACILITIES
University Dining Services offers a variety of meals and snacks to students, faculty, staff and guests of the University. All dining service locations accept cash, personal checks, MoneyMate and Meal Plans, credit, and debit cards. Southern style breakfast, lunch, and an evening buffet are available in the historic Perry Cafeteria, along with ethnic and specialty items as well. Located across from Colvard Union, the cafeteria also has complete Ethernet services available for laptops. Pegasus Dining Room located at CVM offers breakfast, sandwiches, lunch meals, snacks, pre-made salads, and sandwiches. Gooch’s Deli is located next to McKee Hall and serves pizzas, hot breakfast, lunch, deli sandwiches, and snacks. The Food Court, located in Colvard Student Union, includes such vendors as Wendy’s, Chick-Fil-A, Subway, and the Great Wall (Chinese cuisine). McArthur Court is located in McArthur Hall and offers snacks in addition to hot breakfasts and lunches. The State Fountain Bakery, located below Perry Cafeteria’s north entrance, is a popular source for MSU ice cream, cheese, and milk. Their own candies, cookies, pies, and cakes are also favorites as well as a variety of Starbucks coffees, and cappuccinos. Food for Thought is a snack shop located in Mitchell Memorial Library that offers breakfast biscuits and donuts, muffins and bagels, soups and pre-made sandwiches, snacks, candy, soft drinks, milk, coffees, and cappuccinos.
Many students find that employment with Dining Services fills the need for flexible scheduling and additional income. Dining Services is one of the largest employers of student labor on campus. Requests for more information should be addressed to: University Dining Services, Administrative Offices, P.O. Box 6229, Mississippi State University, MS 39762. Access the website for information about meal plans, daily specials, menus, special events, and hours of operation at www.msstate.edu/dept/dining/. The menu line for Perry Cafeteria’s daily menu is 662-325-6368. For additional meal plan information, please contact the Campus Card Office at 662-325-3387.

BOOKS AND SUPPLIES
The University leases its bookstore to the Follett Corporation. Its primary function is to provide textbooks and related supplies to the students, faculty, and staff. As a benefit of this arrangement, a percentage of the sales is returned to the University each year. The percentage may be used for, among other items, scholarships, faculty increases, and departmental support.

The bookstore’s retail areas include textbooks, supplies, clothing, gifts, computers, and trade books. All operations are located on the first floor of the Colvard Student Union. The bookstore sells new and used books at prices standard in most university bookstore operations. It also purchases used books at standard prices. An individual student’s actual cost will depend upon the number and type of texts purchased and whether they are new or used. The bookstore offers in excess of 10,000 general reading and reference titles.

HEALTH SERVICES
The Longest Student Health Center is designed to give primary medical care to students with mental and physical health problems during college years. The Center is open during regular school sessions to all Mississippi State University students who pay the student health fee.

It is recommended that all students use the Student Health Center as their preferred provider of care while at Mississippi State. The Center is staffed with well-qualified family practice physicians and registered professional nurses to provide primary medical care for students. Ancillary services include pharmacy, laboratory, x-ray, and physical therapy. The health fee covers the physician’s professional charge for an unlimited number of clinic visits. Ancillary services are provided on a fee-for-service basis. Ambulance service is available through the Oktibbeha County Hospital.

Those who need more specialized care than the Center can provide will be referred to the appropriate resource.

Clinic hours are 8:00 a.m. to 5:00 p.m., Monday through Friday. Summer semester hours may vary. The Student Health Center is closed on Saturday and Sunday and during regularly scheduled University holidays.

Health records are to be sent directly to the Student Health Center where they are kept confidential. Health records are not a part of the school records and will be kept indefinitely on microfilm for future reference.

A Student Accident and Sickness Insurance Plan has been developed specifically for Mississippi State University students and is intended as a supplement to the care provided by the Student Health Center. Sponsored by the Student Association, it is a voluntary plan for students and their dependents. International students are required by the University to subscribe to this policy unless they provide proof of equal coverage.

Information on student health services and student health insurance is available by writing to Director, John C. Longest Student Health Center, Box 6338, Mississippi State, MS 39762 or telephoning 662-325-2431.

INTERNATIONAL SERVICES OFFICE
The International Services Office (ISO), a unit of the Division of Student Affairs, is charged with the responsibility of immigration matters as they relate to students and exchange visitors. This includes advising and providing information to students, research scholars, visiting professors, and MSU faculty and administrators about rules and regulations of the Immigration and Naturalization Service (INS), maintenance of lawful status, work authorization, and other matters which affect the international community at Mississippi State University. The Exchange Visitor Program is administered in this office, providing DS-2019 documents for qualified J-1 visitors. Through liaison with community organizations and businesses, cultural experiences for international participants are facilitated and encouraged. Semiannual orientation programs for new students are conducted by the ISO. An ISO-administered electronic mail bulletin provides current information regarding immigration regulations, university deadlines, campus and community activities, issues of importance on a national or international scale which affects some or all of MSU’s international community, opportunities for employment, and other matters of interest to...
the subscribers. The ISO is located in the Callejas International Center at 15 Morgan Avenue.

PARKING AND TRAFFIC REGULATIONS
Regulations for the control, direction, parking, and general regulation of traffic and automobiles on the campus have been approved by the Board of Trustees for State Institutions of Higher Learning. Any person who regularly or occasionally operates or parks a motor vehicle on the campus and streets of Mississippi State University will register such vehicle at the beginning of each school year or within 24 hours (excluding weekends and holidays) after it is first brought on the University campus or streets. The decal issued must be properly displayed on the vehicle. Graduate students are not eligible for staff parking permits. Parking areas are assigned to residence hall students, commuter students, and staff. All parking areas are marked clearly and identified properly by appropriate signs. A copy of the Traffic Rules and Regulations may be obtained from the Police Department website at www.msstate.edu/dept/police/policy/traffic.htm.

COUNSELING CENTER
The Counseling Center, located in 103 Lee Hall, offers a variety of services free to all full-time and part-time students Monday through Friday from 8:00 a.m. to 5:00 p.m. Appointments may be made in person or by calling 662-325-2091.

The Counseling Center staff is composed of competent professionals with extensive training in clinical psychology, counseling psychology, social work, and counseling who are experienced in facilitating personal growth and development. Staff members respect the ability of each individual to make actualizing choices. They offer services in career, personal, couples, family, and group counseling. The Counseling Center also offers psycho-educational outreach programs to groups (clubs, organizations, departments, and classes) on a variety of topics. Consultation services and student concerns are available to faculty, staff, and family members.

The Counseling Center serves as the University’s testing center for national testing programs such as ACT, GRE, PRAXIS, LSAT, CLEP, GMAT, MCAT, MAT, and TOEFL. Applications for these tests, which are available at the Counseling Center, should be completed and fees paid well in advance of the desired testing date. The paper-pencil GRE (subject only) is offered at the Allen Hall location.

The computer-based GMAT, PRAXIS (PPST), TOEFL and GRE are offered at the Computer-Based Testing Center at 54 Magruder Street; the telephone number is 662-325-6610. Visit the website at www.msstate.edu/dept/cts.

Other tests used in counseling are also administered at the Counseling Center, including personality tests, tests of ability, and other instruments as needed to assist students.

VETERAN AFFAIRS
Veterans should check with the Registrar’s Office, Garner Hall, 662-325-2024, for information and assistance.

FEES AND EXPENSES
FOR 2005-2006*
A. Resident Tuition and Required Fees for Mississippi residents:

<table>
<thead>
<tr>
<th></th>
<th>Fall</th>
<th>Spring</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$2,156.00</td>
<td>$2,156.00</td>
<td>$4,312.00</td>
</tr>
</tbody>
</table>

B. The Non-Resident Tuition and Required Fees below must be added to the Tuition and Required Fees above for a student who is not a Mississippi resident:

<table>
<thead>
<tr>
<th></th>
<th>Fall</th>
<th>Spring</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$2,730.00</td>
<td>$2,730.00</td>
<td>$5,460.00</td>
</tr>
</tbody>
</table>

*The University reserves the right, subject to order of the Board of Trustees, to raise, lower, or modify without notice any of the above fees for the 2005-2006 session.

A. Tuition and Fees for a part-time student enrolled for not more than eight credit hours during a regular semester:

<table>
<thead>
<tr>
<th>Rate Per Hour (Rounded)</th>
<th>Tuition and Required Fees</th>
</tr>
</thead>
<tbody>
<tr>
<td>$239.75</td>
<td>$2,397.50</td>
</tr>
</tbody>
</table>

B. The Non-Resident Tuition and Required Fee must be added to the Tuition and Required Fee above for a student who is not a Mississippi resident:

|          | $303.50 |

The following fees apply to tutorial students:
A. Definition: A tutorial student is one who does not attend regular classes but is working on a definite course or a problem under the tutorship of a regular University staff member.
B. Fee: A tutorial student will pay the rates identified for part-time students for courses scheduled.

Fees for Courses Audited—A person not registered in the University as a regular student may audit a course by paying the rates identified for part-time students for each credit hour the course carries. The same University policy governing the payment and refund of fees for regular enrollment also applies to students in an audit status.

Laboratory Fees—Additional fees for laboratory usage and supplies may be charged by some departments.

Schedule Change Fees—Any change in class schedules after the last day to register for classes (See the Academic Calendar in the front of this publication for specific dates) will incur a change of schedule fee. The fee is $50.00. The charge is assessed each time an Add/Drop Form is presented to the Registrar’s office after the last day to register; the Add/Drop Form is required for adding a course, dropping a course, or changing sections of a course. Schedule change fees are waived in the event of a change required by administrative action of the University. Schedule changes made after initial registration and payment of fees may generate additional charges to students. Such additional charges are subject to the same payment schedules and penalties as the initial charges, and additional charges should be paid promptly to avoid service fees.

Thesis/Dissertation Fees—Candidates for master’s, educational specialist, and doctoral degrees are required to pay for the cost of having his/her thesis/dissertation typed and bound. The binding fee is $12.00. This fee is used to bind two copies of the thesis/dissertation for permanent filing in the University Library and must be paid to the Controller. No provision is made for the binding of additional copies of the thesis/dissertation; this is the student’s personal responsibility. The student must have his/her thesis/dissertation microfilmed for a fee of $55.00 for dissertations and $45.00 for theses. Copyrighting the thesis/dissertation is optional. The fee is $45.00. The Library will provide the student with the necessary processing materials. Each student submitting a thesis or dissertation should seriously consider copyrighting his/her material. All applicable fees will be assessed to the student’s account.

Student Accounts—A financial record for each student is kept in the Account Services Office in Garner Hall. The information is considered confidential; however, the records of students will be available for examination by authorized representatives of the government. Student account detail may be reviewed at any time via the University’s Internet web site at www.uis.msstate.edu.

Application Fee—All applicants, domestic and international, must submit a $30.00 application fee to the Office of Graduate Studies at the time application is made. An application fee is required for each application submitted. The application fee rate is subject to change at any time. Please check the application to verify the fee and see the calendar in the front of this publication for application deadlines.

International Student Charges—All international students are assessed an Administrative Programming fee of $100.00 each fall, spring, and summer term. Sponsored international students whose programs of study are administered through the International Services Office are assessed an additional fee of $200.00 each fall, spring, and summer term. Health insurance for international students will be assessed at the prevailing rate for the fall semester and for the spring/summer semester. All international students are required to purchase the International Health Insurance unless an acceptable, alternative policy can be proven and accepted by the International Services Office, preferably prior to registration. Health insurance charges will not be removed after the 10th class day.

Sponsored International Student Charges—The International Services Office will administer the programs of study for international students who receive all or most of their financial support in the form of scholarships, grants, or awards from U.S. government agencies, foreign government agencies, private and/or international agencies, or foreign employers, and students whose financial support is administered by foreign embassies and third-party billed by Mississippi State University, assessing a fee of $200 each fall, spring and summer term.

TUITION EXEMPTIONS
Employees—Mississippi State University “Benefits Eligible” employees who have appropriate approval may have tuition remitted for up to six credit hours per semester (fall, spring, or summer) with a maximum of 18 credit hours per calendar year. Employees are required to pay tuition and required fees for any additional hours taken during the enrollment period and other assessments to their student account. In order to receive tuition remission, employees must gain admission/readmission to the University and complete the Application for
Tuition Remission – Employee form. The application must be completed and forwarded to the Sponsored Student Office, 153 Garner, at the beginning of each semester.

Senior Citizens—Senior citizens (65 or over) may take courses without paying tuition and required fees, although registration is on a space-available basis and must be completed after classes begin.

Out-of-State (non-resident) Tuition/Fee Exemption Scholarships—(Ref: Legal Resident Status)

Alumni Non-resident Exemption—Graduate students who are sons or daughters of an alumnus or alumna who earned a minimum of 48 semester hours of credit or a degree from Mississippi State University and who have not received other tuition waivers are eligible for a waiver of 50 percent of non-resident tuition. Both a minimum 3.00 cumulative GPA and completion of at least nine hours of coursework each fall and spring semester are required for renewal of the waiver and are monitored at the end of each fall term. Less than a 3.00 cumulative GPA and/or less than nine hours completed during fall/spring semesters will result in the permanent loss of the out-of-state tuition waiver.

Academic Common Market—Academic Common Market out-of-state tuition waivers are available for specific academic programs for students from certain states. Application must be made first with the awarding state. The student must be a legal resident of that state and approved for a specific major at MSU. Both undergraduate and graduate students are eligible to apply. A qualified student must maintain full time status. The waiver is 100 percent of out-of-state tuition and will remain at this level unless the student’s field of study changes or a student no longer has full time status. To be eligible for the non-resident waiver during the first semester of enrollment, applications and resident verification must be submitted to and approved by the Office of the Provost and Vice President for Academic Affairs prior to the first day of class. For more information about submission and deadlines, please contact that office at 662-325-3742. Students seeking information on the Academic Common Market waiver should write to the Academic Common Market at the Southern Regional Education Board, 592 10th Street, NW, Atlanta, GA 30318-5790. The SREB website may be accessed at www.sreb.org/programs/acm/acmindex.asp.

Unpaid Balances from Previous Semesters—Any outstanding and past due amounts owed to the University must be paid in full before a student may register for additional courses. All payments received on student accounts will be applied to charges in the same order in which the charges were incurred. A student who has a hold on his/her record because of an overdue account may not receive a transcript or a diploma until the account is cleared.

Student Activities—All students by payment of tuition and required fees are eligible for use of facilities, participation in intramural sports, admission to intercollegiate athletic events, the student newspaper, student health services, and other benefits.

Billing—Billing information is available to students on or about the 15th of each and every month with payment due approximately the 9th of the following month. Students receive a monthly billing notification via email providing also a link to their account detail and statement information via the MSU Intranet at https://www.uis.msstate.edu. All account information is continuously available online. The University provides a mailed, printed statement three times per year just prior to the beginning of each term. It is the responsibility of the student to maintain current home and billing addresses in order for the printed statements to reach the proper locations.

Attorney and Collection Fees—The account of a student who does not pay fees by the end of the term may be turned over to an outside collection agency for assistance in collecting. The prevailing collection cost rate will be added to the amount owed by the student to cover the collection agency cost. If an attorney’s services are needed to collect an unpaid balance, the student will be responsible for payment of the attorney’s fees, plus all court and other collection cost incurred.

Housing Fees—To live in a residence hall, a student must sign a nine-month housing contract. The contract in Aiken Village is for 12 months. Rent is payable monthly in apartments or by semester in other halls. All fees are subject to change without notice. A complete price list is available at www.housing.msstate.edu. Information pertaining to housing may be obtained by contacting the Department of Housing and Residence Life, P.O. Box 9502, Herbert Hall, Mississippi State, MS 39762, telephone 662-325-3555, or by e-mail at housing@saffairs.msstate.edu.

Other Fees—Fees which may be incurred by students include Student Identification Card Replacement Fee which is $10.00.
SUMMER SESSION FEES
Mississippi State University conducts a summer school in which graduate students will find programs of interest. Tuition and fees are paid by the hour for summer enrollments. Resident students will pay $239.75 per credit hour. Non-resident students will pay an additional $303.50 per credit hour out-of-state tuition/fee for courses. Summer school fees are available online at www.controller.msstate.edu/sas/account.htm.

PAYMENT, DEFERRAL, AND REFUNDS
Payment of Fees by Students Receiving Financial Aid or Scholarships—A student who receives a scholarship or need-based financial aid from the University is expected to use the financial aid or scholarship award to complete payment of tuition and required fees. The remaining balance of scholarship and financial aid funds is available to be used for other educational expenses only after tuition and fees have been paid. A “Memo” balance of Financial Aid on a student’s statement may not prevent service fees after the first billing for the term. Only timely filing of a student’s Financial Aid will assure a timely disbursement to prevent service fees.

Student Obligation—The account of a student who does not pay the fees by the end of the term may be turned over to an outside collection agency for assistance in collecting. The prevailing collection cost rate will be added to the amount owed by the student to cover the collection agency cost. If an attorney’s services are needed to collect an unpaid balance, the student will be responsible for payment of the attorney’s fees, plus all court and other collection cost incurred.

Payment Terms and Conditions—The account balance is due and payable 25 days from billing. Due dates are the 9th of each month. A service charge will be assessed at the rate of 1.5% on outstanding charges unpaid more than 25 days from billing date. While it is acceptable to make partial payments, a student is encouraged to make payment in full by due date to avoid this monthly service fee assessment and past due holds. Prior term charges must be paid in full before a student will be eligible to register for a new term. A student is responsible for payment of all tuition and fee charges unless the student either CANCELS HIS/HER SCHEDULE OR WITHDRAWS FROM SCHOOL. See section on withdrawals and refunds for details. Failure to take appropriate withdrawal action can result in significant payment obligations. The maximum penalty allowed by law will be charged for any check returned by the student’s bank for any reason. IT IS THE STUDENT’S RESPONSIBILITY TO MAKE SURE HIS OR HER ADDRESS IS CORRECT FOR ANY NEEDED CORRESPONDENCE. For other information concerning a student’s account or payment requirements, please call Account Services at 662-325-2071.

REFUNDS OF TUITION AND FEES
Refund for Dropping—A student who reduces his or her course load during a semester to a level which results in a reduction in tuition and fees may receive a 100 percent refund for the courses dropped until the 10th day of classes. After the 10th class day, no refunds are made for individual courses dropped.

Drops for all summer terms are refunded at 100 percent during the first three class days. After the third class day, no refunds are made for individual courses dropped.

Unpaid Balances from Previous Semesters—Any outstanding and past due amounts owed to the University must be paid in full before a student may register for additional courses. All payments received on student accounts will be applied to charges in the same order in which the charges were incurred. A student who has a hold on his/her record because of an overdue account may not receive a transcript or a diploma until the account is cleared.

Student Activities—All students by payment of tuition and required fees are eligible for use of facilities, participation in intramural sports, admission to intercollegiate athletic events, the student newspaper, student health services and other benefits.

Billing—Billing occurs on the 15th of each month. A student may access his or her account information 24 hours a day via the University’s web page: https://www.uis.msstate.edu. Click on Intranet, then on Secured Access to get to your personal information menu.

Refund for Withdrawal from the University—Tuition and most fees may be refunded according to the schedule on the Mississippi State University Academic Calendar to students who formally withdraw from the University. See www.msstate.edu/dept/registrar/calendar for this information.

The administrative authorities of the University will withhold the credits and readmission of any student who fails to pay all of his/her financial obligations to the University by the end of each semester and/or at the time of withdrawal.

A student’s records may be cleared and credits released when the indebtedness is paid in full.
ASSISTANTSHIPS

Graduate research, teaching, and service assistantships are available on an annual or nine-month basis. Individual academic and non-academic departments/units are responsible for award decisions, the duties and responsibilities, stipend rate, and work schedule. The minimum stipend rate is $600.00 per month.

Graduate Teaching Assistantships—

Graduate Teaching Assistants (GTAs) normally serve in an instructional capacity and are selected on the basis of a student’s past teaching experience or academic promise to be effective instructors in their field of study. Most academic units offering graduate work budget for one or more teaching assistants each year. Graduate Teaching Assistants who have primary responsibility for teaching a course for credit and/or for assigning final grades for such a course must have earned at least 18 graduate semester hours in the teaching discipline, be under the direct supervision of a faculty member experienced in the teaching discipline, receive regular in-service training, and be regularly evaluated. Assistants may lecture, assist in laboratory, grade papers, or perform other tasks associated with the academic program. Stipends vary by assigned responsibilities and between units. All first-time teaching assistants are required to attend the Teaching Assistant Workshop that is held annually prior to the beginning of the fall semester. To inquire or apply for an assistantship, please contact the department of your concern.

Teaching Assistant Workshop—The Teaching Assistant (TA) Workshop consists of two segments.

Segment One – Required of all teaching assistants. This segment focuses on the role of a classroom instructor. Presentations may include topics such as the role of a GTA, syllabus development, effective teaching techniques, understanding sexual harassment, the impact of cultural diversity, ethics in the classroom, assessing academic achievement, and academic support services.

Segment Two – Required of all teaching assistants whose native language is not English. This segment which focuses on communication skills, cultural adjustment, and University orientation concludes with an English language proficiency test. The test consists of a five-minute student presentation to a panel of three judges. After each presentation, the judges engage the student in a dialog related to some aspect of the presentation in order to evaluate the student's language proficiency.

A student who is not successful in the language proficiency examination is expected to attend a special semester-long class at no cost. This class further assists the student with language deficiencies as diagnosed in the fall workshop. At the end of the semester, the student is again tested on language skills.

Failure to complete Segment One of the TA workshop will render a student, international or domestic, ineligible for a teaching assistantship. A student whose native language is not English must satisfactorily complete both segments to be eligible for classroom instruction.

Graduate Research Assistantships—

Graduate Research Assistants (GRAs) are employed by many of the University's academic, research, and administrative offices. GRAs provide important services in many University research activities. This is an excellent opportunity to learn new techniques and methods as well as expand knowledge by association with the research-oriented responsibilities. Some GRAs are appointed by units other than their academic discipline; however, GRAs will bring knowledge and skills of value to the project wherever employed within the University. Duties and stipends vary from program to program and are usually dependent upon the nature of the assigned duties and the time required for performance. An applicant interested in a research assistantship should contact his/her academic department.

Graduate Service Assistantships—This title generally refers to students who are employed to aid faculty and staff members with administration and operations within a unit. Many academic and non-academic units have graduate service assistantships available. Assignments vary depending on administrative needs of the unit making the award. Stipends vary according to the nature of duties and worktime required for performance. Application should be submitted to the department/unit where employment is sought.

Eligibility for an Assistantship—To be eligible for an assistantship appointment, a student must have “regular” or “contingent” admission status to a specific graduate degree program. However, a student with “contingent” status must, within the first award enrollment period, satisfy “regular” admission requirements. A student with “provisional” or “unclassified”
admission status is not eligible for an assistantship appointment. An assistantship award will be terminated when these requirements are not met. A student’s admission status may be verified by calling the Office of Graduate Studies (OGS).

Application for Graduate Assistantships—Application for an assistantship appointment must be submitted to the college, department, school, or support unit with a position available. Each department may provide its own application form or use the generic “Application for Graduate Assistantship” provided on the Office of Graduate Studies Web location: http://www.msstate.edu/dept/grad/forms.htm. The department establishes application deadlines and reviews procedures.

Required Course Loads for Academic Semesters—Graduate assistants must be full-time students (registered in at least nine graduate credit hours) and may not enroll in more than 13 graduate credit hours. The required full-time status must be maintained throughout the entire semester. Therefore, no course may be dropped if the resulting course load would be less than the required nine graduate credit hours, nor may any courses constituting the nine-hour load consist of or be converted to audit status. The nine-hour course load may not be composed of undergraduate courses unless the course is a program prerequisite. In such case, the minimum graduate load required will be six credit hours and only one undergraduate course will be permitted as part of the nine-hour load (Policy revision approved by the Graduate Counsel-3/23/01).

Required Course Load for Full Summer Awards—Full summer awards require an enrollment in at least six graduate credit hours with a maximum allowed of 13 credit hours. Any combination can be used to make up the 13-credit hour maximum; however, enrollment in either five-week term must be limited to seven credit hours or fewer.

Required Course Load for Half Summer Award—This applies to awards ending June 30 or beginning July 1. “Half” summer graduate assistantship awards require an enrollment in at least three graduate credit hours with a maximum allowed of seven credit hours.

Satisfactory Progress—To retain an assistantship, a student must demonstrate satisfactory progress in the specified program. Failure to do so may result in a termination of the assistantship. Unsatisfactory progress may be defined as the failure to maintain a B average in graduate courses attempted after being admitted to a degree program (i.e., program and non-program courses), a grade of U, D, or F in any course, more than two grades below a B, failure of the comprehensive/preliminary examination, an unsatisfactory evaluation of a thesis or dissertation, failure of a research defense, or any other failure of a required component of the program. Any of these unsatisfactory performance indicators, or any combination of these, may constitute the basis for the termination from a degree program. Individual departments or units have the right to establish their own criteria of what is satisfactory and unsatisfactory performance.

Matriculation Fees—All Graduate Assistants receive an exemption equal to approximately 71% of assessed tuition and required fees. Graduate Assistants who are not Mississippi residents will receive a 100% exemption of the additional charges assessed for non-resident tuition. All students are personally responsible for paying any student account charges in excess of the tuition exemption. For the 2005-2006 academic years, the amount of charges in excess of the tuition exemption is $602.45 per semester. During the summer enrollment period, the fee charges are assessed on a per credit hour basis. Please see the Fees, Expenses, and Financial Aid section for more detail.

COUNCIL OF GRADUATE SCHOOLS
Mississippi State University subscribes to the Council of Graduate Schools (CGS) Resolution Regarding Graduate Scholars, Fellows, Trainees and Assistants. This resolution and a complete list of the participant institutions are available at www.cgsnet.org/PublicationsPolicyRes/resolutions.htm. The resolution reads as follows:

“Acceptance of an offer of financial support (such as a graduate scholarship, fellowship, traineeship, or assistantship) for the next academic year by a prospective or enrolled graduate student completes an agreement that both student and graduate school expect to honor. In that context, the conditions affecting such offers and their acceptance must be defined carefully and understood by all parties.

“Students are under no obligation to respond to offers of financial support prior to April 15; earlier deadlines for acceptance of such offers violate the intent of this Resolution. In those instances in which a student accepts an offer before April 15, and subsequently desires to withdraw that acceptance, the student may submit in writing a resignation of the appointment at any time through April 15.
However, an acceptance given or left in force after April 15 commits the student not to accept another offer without first obtaining a written release from the institution to which a commitment has been made. Similarly, an offer by an institution after April 15 is conditional on presentation by the student of the written release from any previously accepted offer. It is further agreed by the institutions and organizations subscribing to the above Resolution that a copy of this Resolution should accompany every scholarship, fellowship, traineeship, and assistantship offer."
System of Course Numbers

All course numbers consist of four digits, of which the first (left) digit indicates the level of preparation required and the fourth (right) digit indicates the number of semester hours. The two middle digits are Courses that are in close sequence, such as two semesters of survey courses or a sequence of numbers for a seminar in a particular field, may be listed with a hyphen (-) between the two four digit numbers; example, AGN 8711-8731. Seminar.

When the same course is offered on both undergraduate and graduate levels, two numbers are used to designate the two levels of credit; example, HI 4703/6703. England to 1485. Additional requirements are expected of graduate students over and above all requirements for undergraduate level students in the same course.

The following course numbers, 4990, 6990, and 8990, designate Experimental Courses and will be used for no more than two years unless an extension is granted.

Course Numbers Level of Credit

1001-2999 Lower division courses (Undergraduate credit only)
3001-4999 Upper division courses (Undergraduate credit only)
4001-4009 Directed Individual Study (Undergraduate or professional credit only)
5001-5999 Professional courses
6011-6999 Courses for graduate credit only
7011-7999 Courses for graduate credit only
8011-8999 Courses for graduate credit only
9011-9999 Courses for graduate credit only
7001-7009 Directed Individual Study (Graduate credit only)
8001-8009 Master’s level research and thesis
9001-9009 Doctoral level research and dissertation

Half of the course work to meet the graduate requirements for a master’s degree must be in course numbers 8000 or above.

Certain departments do not offer major or minor graduate courses as such but may offer an occasional supporting graduate course in a major or minor field.
Graduate study is offered in the School of Accountancy leading to the Master of Professional Accountancy (M.P.A.) degree or the Master of Taxation (MTX) degree. The objective of graduate study at the master's level is to further the student's education in business and accounting in preparation for a professional career in accounting.

The School of Accountancy cooperates in interdisciplinary programs leading to the Master of Business Administration (M.B.A.) and the Doctor of Philosophy (Ph.D.) in Business Administration degree (see the Business Administration section of this publication). The objective of graduate study at the doctoral level is to prepare the student for a career in teaching and research in accounting at the college level.

Admission Criteria—An applicant to the M.P.A. program should hold a bachelor’s degree from a fully recognized four-year institution of higher learning that enjoys unconditional accreditation by appropriate regional accrediting agencies. In addition, the applicant for the M.P.A. degree must take the Graduate Management Admission Test (GMAT). Generally, regular admission to the M.P.A. program requires a 510 GMAT score, a GPA of 3.00/4.00 over the last 60 hours of baccalaureate work and acceptable recommendation letters. When a student is deficient in one of the criteria cited, the student’s application, nevertheless, may be considered for admission based on the strength of the materials contained in the student’s application. However, reasonable minimum levels of performance must be achieved in both the applicant’s GPA and GMAT scores.

International Applicant—An international applicant must submit a TOEFL report of 575 or higher. An application will not be considered without this indicator of English proficiency.

Program of Study—The candidate must complete 30 hours of course work at the graduate level beyond any prerequisite courses. As prescribed below, this program is composed of 21 hours of accounting course work and nine hours of other business courses.

Required Accounting Courses (15 hours):
- ACC 6023* Advanced Accounting (if not taken as undergraduate). 3 hours
- ACC 6063* Income Tax II (if not taken as an undergraduate). 3 hours
- ACC 8023 Advanced Managerial Accounting. 3 hours
- ACC 8013 Seminar in Financial Accounting Theory. 3 hours
- ACC 8033 Business Assurance Services. 3 hours

Accounting Electives (6 hours from the following courses):
- ACC 6043 Municipal and Government Accounting (if not taken as an undergraduate). 3 hours
- ACC 6053 International Accounting. 3 hours
- ACC 8043 Fraud Examination. 3 hours
- ACC 8053 Professional Accounting Policy and Research. 3 hours
- ACC 8063 Research in Tax Practice and Procedures. 3 hours
- ACC 8073 Taxation of Corporations and Shareholders. 3 hours
- ACC 8083 Federal Estate and Gift Taxation. 3 hours
ACC 8093  Taxation of Partnerships, S Corporations, Trusts, and Estates. 3 hours
ACC 8113  Advanced Individual Taxation. 3 hours
ACC 8123  Tax Topics. 3 hours

Business Electives: Nine hours of graduate-level business courses are also required.

*No more than nine hours of course work in the 30-hour program may be at the 6000 level.

Concentration in Systems—In lieu of nine hours of accounting and business electives, a student may elect a concentration in systems by selecting the three courses below:
ACC 8043  Fraud Examination. 3 hours
BIS 8213*  Advanced Systems Analysis and Design. 3 hours
BIS 8313  Advanced Database Design Administration. 3 hours

*Six hours of programming are a prerequisite.

Provisional Admission—A student who has not fully met the requirements stipulated by the University and the school for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. A provisional student must receive a 3.00 GPA on the first nine hours of graduate level courses on the program of study taken at Mississippi State University in order to achieve regular status. Neither transfer hours nor unclassified graduate hours can be used to fulfill this requirement. If a 3.00 is not attained, the provisional student may be dismissed from graduate study. While in the provisional status, a student is not eligible to hold a graduate assistantship.

Academic Performance—A student in any graduate degree program in the College of Business and Industry may not continue in the program with grades below B in more than six hours of graduate course work, regardless of the overall average. Thus, any program is terminated automatically when a seventh credit hour below B is recorded on graduate course work.

Prerequisite Courses—A grade of C or better is required on all undergraduate prerequisite courses. The prerequisites listed below, or their equivalent, must be completed either before or during graduate course work. A complete transcript evaluation will be more specific in individual cases.

ACC 3003  Accounting Systems I. 3 hours
ACC 3013  Cost Accounting. 3 hours
ACC 3023  Intermediate Accounting I. 3 hours
ACC 3033  Intermediate Accounting II. 3 hours
ACC 3053  Accounting Systems II. 3 hours
ACC 4013  Income Tax I. 3 hours
ACC 4033  Auditing. 3 hours
EC 2113  Principles of Macroeconomics. 3 hours
EC 2123  Principles of Microeconomics. 3 hours
FIN 3123  Financial Management. 3 hours
BL 2413  Legal Environment of Business. 3 hours
BL 3223  Law of Commercial Transactions. 3 hours
BQA 2113  Statistics I. 3 hours
BQA 3123  Statistics II. 3 hours
MGT 3114  Principles of Management and Production. 4 hours
MKT 3013  Principles of Marketing. 3 hours

NOTE: Where appropriate, M.B.A. foundation courses may be used to satisfy some of the above prerequisites.

Completion Requirements:
1. A student must complete the required curriculum and a minimum of 30 graduate semester hours.
2. A student must achieve an overall GPA of at least 3.00/4.00 on graduate work attempted with no more than six hours of C grades.
3. A student must achieve a 3.00/4.00 GPA on graduate accounting work attempted.
4. A student must achieve a 3.00/4.00 GPA on all graduate work attempted at MSU after being admitted to the degree program.
5. A student must pass an end-of-program oral examination.
Information—For more information or answers to specific questions regarding the M.P.A., please contact the Director, Graduate Studies in Business, P.O. Drawer 5288, Mississippi State, MS 39762, Phone: 662-325-1981, Fax: 662-325-8161, Email: gsb@cobila.msstate.edu; or the MPA Advisor, School of Accountancy, Drawer EF, Mississippi State, MS 39762, Phone: 662-325-3710, Fax: 662-325-1646, Email: sac@cobilan.msstate.edu.

Master of Taxation (MTX)
Program Objectives—The primary objective of the Master of Taxation program is to further the student's education in business and accounting with an emphasis in taxation while preparing for a professional career in accounting and taxation.

Admission Criteria—An applicant should hold a bachelor's degree from a fully recognized four-year institution of higher learning that enjoys unconditional accreditation by appropriate regional accrediting agencies. In addition, the applicant for the MTX degree must take the Graduate Management Admission Test (GMAT). Generally, regular admission to the MTX program requires a 510 GMAT score, a GPA of 3.00/4.00 over the last 60 hours of baccalaureate work and acceptable recommendation letters. When a student is deficient in one of the criteria cited, the student's application, nevertheless, may be considered for admission based on the strength of the materials contained in the student's application. However, reasonable minimum levels of performance must be achieved in both the applicant's GPA and GMAT scores.

International Applicant—An international applicant must submit a TOEFL report of 575 or higher. An application will not be considered without this indicator of English proficiency.

Program of Study—A candidate must complete 30 hours of course work at the graduate level beyond any prerequisite courses. As prescribed below, this program is composed of 15 hours of taxation course work and 15 hours of accounting and business course work.

Taxation:
Required Tax Courses (15 hours):

ACC 8063 Research in Tax Practice and Procedures. 3 hours
ACC 8073 Taxation of Corporations and Shareholders. 3 hours
ACC 8083 Federal Estate and Gift Taxation. 3 hours
ACC 8093 Taxation of Partnership, S Corporations, Trusts, and Estates. 3 hours
Any 8000 level taxation course. 3 hours

Accounting and Business:
Required Accounting Courses (6 hours):
ACC 8013 Seminar in Financial Accounting Theory. 3 hours
ACC 8033 Business Assurance Services. 3 hours

Accounting and Business Electives (9 hours):
Nine hours of additional graduate-level accounting or business courses are also required.

NOTE: No more than nine hours of course work in the 30-hour program may be at the 6000 level.

Provisional Admission—A student who has not fully met the requirements stipulated by the University and the school for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. A provisional student must receive a 3.00 GPA on the first nine hours of graduate level courses on the program of study taken at Mississippi State University in order to achieve regular status. Neither transfer hours nor unclassified graduate hours can be used to fulfill this requirement. If a 3.00 is not attained, the provisional student may be dismissed from graduate study. While in the provisional status, a student is not eligible to hold a graduate assistantship.

Academic Performance—A grade of C or better is required on all undergraduate prerequisite courses. A student in any graduate degree program in the College of Business and Industry may not continue in the program with grades below B in more than six hours of graduate course work, regardless of the overall average. Thus, any program is terminated automatically when a seventh credit hour below B is recorded on graduate course work.

Prerequisite Courses—The prerequisites listed below, or their equivalent, must be completed either before or during graduate course work. A complete transcript evaluation will be more specific in individual cases.

ACC 3023 Intermediate Accounting I. 3 hours
ACC 3033 Intermediate Accounting II. 3 hours
ACC 4013 Income Tax I. 3 hours
ACC 4033 Auditing. 3 hours
EC 2113 Principles of Macroeconomics. 3 hours
EC 2123 Principles of Microeconomics. 3 hours
FIN 3123 Financial Management. 3 hours
BL 2413 Legal Environment of Business. 3 hours

NOTE: Where appropriate, M.B.A. foundation courses may be used to satisfy some of the above prerequisites.

Completion Requirements:
1. A student must complete the required curriculum and a minimum of 30 graduate semester hours.
2. A student must achieve an overall GPA of at least 3.00/4.00 on graduate work attempted with no more than six hours of C grades.
3. A student must achieve a 3.00/4.00 GPA on graduate accounting work attempted.
4. A student must achieve a 3.00/4.00 GPA on all graduate work attempted at MSU after being admitted to the degree program.
5. A student must pass an end-of-program oral examination.

Information—For more information or answers to specific questions regarding the MTX program, please write to Director, Graduate Studies in Business, P.O. Drawer 5288, Mississippi State, MS 39762, Phone: 662-325-1891, Fax: 662-325-8161, Email: gsb@coblans.msstate.edu; or to MTX Advisor, School of Accountancy, Drawer EF, Mississippi State, MS 39762, Phone 662-325-3710, FAX: 662-325-1646, Email: sac@coblans.msstate.edu.

Graduate Courses—Course prerequisites are noted in parentheses.
ACC 6023 Advanced Accounting (ACC 3033). 3 hours
ACC 6043 Municipal and Governmental Accounting (ACC 2023). 3 hours
ACC 6053 International Accounting (ACC 2023). 3 hours
ACC 6063 Income Tax II (ACC 4013). 3 hours
ACC 6990 Special Topics in Accounting. 1-9 hours
ACC 7000 Directed Individual Study. 3 hours
ACC 8000 Research/Thesis. 6 hours
ACC 8013 Seminar in Financial Accounting Theory (ACC 4023). 3 hours
ACC 8023 Advanced/Managerial Accounting (ACC 3013). 3 hours
ACC 8033 Business Assurance Services (ACC 4033). 3 hours
ACC 8043 Fraud Examination (ACC 3053 and ACC 4033). 3 hours
ACC 8053 Professional Accounting Policy and Research (ACC 3033). 3 hours
ACC 8063 Research in Tax Practice and Procedures (ACC 4013). 3 hours
ACC 8073 Taxation of Corporations and Shareholders (ACC 4013). 3 hours
ACC 8083 Federal Estate and Gift Taxation (ACC 4013). 3 hours
ACC 8093 Taxation of Partnerships, S Corporations, Trusts, and Estates (ACC 4013). 3 hours
ACC 8103 Income Taxation of Natural Resources (ACC 4013). 3 hours
ACC 8112 Financial Statement and Management Accounting Report Analysis for Decision Making (ACC 8303 or equivalent). 2 hours
ACC 8113 Advanced Income Tax For Individuals. 3 hours
ACC 8203 Advanced Accounting Analysis for Decision Making (ACC 2023, not open to undergraduate majors). 3 hours
ACC 8213 Financial Statement Analysis (ACC 8203 or equivalent). 3 hours
ACC 8303 Survey of Accounting. 3 hours
ACC 9000 Research/Dissertation. 20 hours
ACC 9013 Seminar in Financial Accounting (ACC 8483). 3 hours
ACC 9023 Seminar in Management Accounting Research (ACC 8223). 3 hours
ACC 9033 Seminar in Accounting Research. 3 hours
Aerospace Engineering
James Worth Bagley College of Engineering
Dr. Kirk H. Schulz, Dean
Dr. Roger L. King, Associate Dean for Research and Graduate Studies
Dr. Anthony Vizzini, Department Head
Dr. Pasquale Cinnella, Graduate Coordinator
330 Walker Engineering Building
662-325-3623
grad-coord@ae.msstate.edu

Graduate study is offered in the Department of Aerospace Engineering leading to the degrees of Master of Science and Doctor of Philosophy. Major areas of study are: fluid mechanics, aerodynamics, computational fluid dynamics, structures and composites, structural dynamics, dynamics and controls, space applications. The Raspet Flight Research Laboratory, a unique University facility for graduate aeronautical teaching and research, is operated as an integral part of the Aerospace Engineering Department. The department is a major participant in the ERC. Members of this faculty provide primary leadership in computational simulation and numerical grid generation. Other department facilities consist of: a low speed wind tunnel, a water tunnel, a blow-down supersonic wind tunnel, and a universal testing machine laboratory. Graduate research and teaching assistantships are available.

Admission Criteria—Regular admission in Aerospace Engineering requires a B.S. degree from an EAC/ABET (Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology) accredited program with a grade point average of 3.00 out of 4.00 for the junior and senior years. An entering graduate student with a bachelor’s degree from a program that is not ABET accredited must submit GRE general-test scores. International students must have a minimum TOEFL score of 550 (CBSS-Computer-Based Score Scale 213).

Program of Study/Completion Requirements— A student must complete 24 hours of course work for the master’s degree with half the work at the full graduate level (8000-level courses). A student may elect a thesis option, which requires six hours of research/thesis, or a non-thesis option, which requires nine hours of additional graduate course work. A Master’s degree student must pass a final oral examination upon completion of all course requirements. The number of course hours required of a Ph.D. student depends on each student’s needs. A typical Ph.D. program of study includes 30 hours of course work past the master’s degree, half of which are at the full graduate level (8000-level courses), plus a minimum of 20 hours of research/dissertation. In order to be admitted to candidacy for the Ph.D. degree, a student must pass a doctoral qualifying examination, have his/her dissertation topic approved, and sit for a candidacy examination. A final dissertation defense and an oral examination of the candidate are also required.

Contingent Admission—A student whose B.S. or M.S. degree is not in Aerospace or Mechanical Engineering may be granted contingent admission, depending on qualifications and experience. Typically, the contingency is removed by taking some undergraduate prerequisite courses in the first few terms after admission. Specific conditions are handled on a case-by-case basis. For more information, please contact the Graduate Coordinator.

Provisional Admission—A student who has not fully met the requirements for regular admission may be granted admission as a degree seeking graduate student with provisional status. Please refer to the “General Requirements for Admission” section for more details. The minimum acceptable undergraduate grade point average for admission as a provisional student is 2.75 (out of 4.00).

Academic Performance and Continued Enrollment—Continued enrollment in the graduate program in Aerospace Engineering is contingent upon satisfactory performance in the courses and research and satisfactory performance toward completion of the degree. Satisfactory performance is achieved when all four of the following criteria are fulfilled:

a) The student maintains a B average, or better, on
   1) all undergraduate prerequisite courses,
   2) graduate courses completed,
   3) all graduate courses included on his or her program of study;

b) the student has no more than one grade less than C;

c) the student has a Satisfactory (S) grade on all research credit hours attempted;

d) the student has a major advisor and a supervisory graduate committee after the first two terms of enrollment.

Should the cumulative GPA (in any of the three categories of the first criterion) be less than a 3.00/4.00 at the end of a term, the student will be placed on probation. Should the student earn a
second grade less than C, the student will be terminated immediately. Should the student received an Unsatisfactory (U) grade on research credit hours attempted, he/she will be placed on probation.

The probationary period is defined to be one term (summer counts as one term if the student is enrolled). If at the end of the probationary period the student has not remedied his/her deficiency (i.e., has not achieved a 3.00 GPA, has not scheduled research credit hours and received a satisfactory grade), then his/her program of study will be terminated.

A student may appeal termination of his/her program of study to the Aerospace Engineering graduate coordinator.

Further Information—For information about the program or financial support, contact the Aerospace Engineering Graduate Coordinator, Box A, Mississippi State, MS 39762, or send electronic mail to: grad-coord@ae.msstate.edu. Information regarding the Aerospace Engineering graduate programs can be found at the department’s website: http://www.ae.msstate.edu/.

Graduate Courses—Course prerequisites are noted in parentheses.

ASE 6013 Engineering Design Optimization (Consent of Instructor). 3 hours

ASE 6133 Automatic Control of Aerospace Vehicles (ASE 4123). 3 hours

ASE 6153 Advanced Performance (ASE 2013). 3 hours

ASE 6163 Introduction to Flight Test Engineering (ASE 3313, ASE 4123). 3 hours

ASE 6243 Astrodynamics II (ASE 4143). 3 hours

ASE 6333 Helicopter Aerodynamics and Performance (consent of instructor). 3 hours

ASE 6423 Introduction to Computational Fluid Dynamics (consent of instructor). 3 hours

ASE 6433 Fundamentals of Numerical Grid Generation (consent of instructor). 3 hours

ASE 6990 Special Topics in Aerospace Engineering. 1-9 hours

ASE 7000 Directed Individual Study. 1-6 hours

ASE 8000 Research/Thesis. 1-6 hours

ASE 8313 Advanced Compressible Aerodynamics I (ASE 4343 or equivalent). 3 hours

ASE 8323 Advanced Compressible Aerodynamics II (ASE 8313). 3 hours

ASE 8343 Incompressible Viscous Laminar Flow (consent of instructor). 3 hours

ASE 8353 Turbulent Flow (ASE 8343). 3 hours

ASE 8363 Computational Heat Transfer (consent of instructor). 3 hours

ASE 8413 Computational Fluid Dynamics I (consent of instructor). 3 hours

ASE 8423 Computational Fluid Dynamics II (ASE 8413 or equivalent). 3 hours

ASE 8533 Advanced Numerical Grid Generation (ASE 4433/6433 or consent of instructor). 3 hours

ASE 8990 Special Topics in Aerospace Engineering. 1-9 hours

ASE 9000 Research/Dissertation. 1-20 hours

The Master of Agribusiness Management (M.A.B.M.) program is an interdisciplinary degree between the College of Agriculture and Life Sciences and the College of Business and Industry. It is administered by the Agribusiness Institute. The program is designed to prepare
students for employment in the management of agribusiness.

**Admission Criteria**—An applicant for admission to graduate study must hold a bachelor’s degree from a fully recognized four-year educational institution that has unconditional accreditation with appropriate regional accrediting agencies. He/she must meet the admission requirements of Graduate Studies and the Master of Agribusiness Management Program. Admission is based primarily on past performance, letters of recommendation, and the Graduate Management Admission Test (GMAT) scores. Regular admission to graduate study in the M.A.B.M. program requires a minimum grade point average (last four semesters of undergraduate work) of 3.00/4.00. When a student is deficient in one of the criteria cited, the student’s application, nevertheless, may be considered for admission based on the strength of other materials contained in the student’s application. However, reasonable minimum levels of performance must be achieved in both the applicant’s GPA and GMAT scores. International applicants not holding degrees from U.S. institutions must submit a TOEFL (Test of English as a Foreign Language) report of 575 or higher to be considered for admission.

**Program of Study/Completion Requirements**—The Master of Agribusiness Management degree program requires a minimum of 34 hours of course work and a comprehensive academic examination.

**M.A.B.M. Core**—The M.A.B.M. program requires 34 hours with a core of 25 hours and nine hours of electives:

**Graduate Courses:**
- ACC 8112 Financial Accounting and Report Analysis. 2 hours
- AEC 6530 Agribusiness Internship. 3 hours
- AEC 8312 Economic and Social Environment of Agribusiness Firms. 2 hours
- AEC 8522 Decision Modeling for Agribusiness Management. 2 hours
- AEC 8532 International Agricultural Trade and Policy. 2 hours
- AEC 8542 Agribusiness Risk Management. 2 hours
- BIS 8122 Multimedia Communication and Presentation. 2 hours
- BQA 8112 Case Analysis Using Statistics. 2 hours
- EC 8103 Economics for Managers. 3 hours
- FIN 8112 Capital Acquisition and Allocation. 2 hours
- MGT 8121 Strategic Management. 1 hour
- MKT 8112 Marketing Management. 2 hours
- Approved Electives. 9 hours

**M.A.B.M. Foundation**—The foundation portion of the program consists of 18 graduate hours that may be satisfied in part or total by prior undergraduate or graduate preparation.

**Graduate Courses:**
- ACC 8303 Survey of Accounting (or Principles of Financial and Managerial Accounting). 3 hours
- BIS 8122 Multimedia Communication and Presentation. 2 hours
- BQA 8443 Statistical Analysis for Business Decision Making. 3 hours
- EC 8043 Survey of Economics (or two undergraduate economics courses). 3 hours
- FIN 8052 Survey of Finance (or Financial Management or Farm Financial Management). 2 hours
- MGT 8063 Survey of Management (or Principles of Management or Agribusiness Firm Management and Production Management). 3 hours
- MKT 8072 Survey of Marketing (or Principles of Marketing). 2 hours

**Provisional Admission**—A student who has not fully met the requirements stipulated by the University and the appropriate department for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. Such student must have as his/her initial objective advancement to regular status. A provisional student must receive a 3.00 GPA on the first nine hours of graduate level courses on their programs of study taken at Mississippi State University in order to achieve regular status. Neither transfer hours nor unclassified graduate hours can be used to fulfill this requirement. If a 3.00 is not attained, the provisional student may be dismissed from
graduate study. A student in provisional status is not eligible to hold a graduate assistantship.

**Academic Performance**—Unsatisfactory performance may be defined as the failure to maintain a B average in graduate courses attempted after admission to the program, a grade of U, D, or F in any course, more than two grades below a B, failure of the comprehensive/preliminary examination, an unsatisfactory evaluation of a thesis or dissertation, failure of the research defense, or any other failure of a required component of one’s program of study. Any one of these, or any combination of these, may constitute the basis for the termination of a student’s graduate study in a degree program; individual programs have the right to establish their own criteria.

**For More Information**—For more information regarding the M.A.B.M., please write to the Coordinator, Agribusiness Institute, P.O. Box 9755, Mississippi State University, Mississippi State, MS 39762, or call 662-325-2750.

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**Agricultural and Biological Engineering**

James Worth Bagley College of Engineering

Dr. Kirk Schulz, Dean
Dr. Roger L. King, Associate Dean for Research and Graduate Studies
Dr. William Batchelor, Department Head and Graduate Coordinator
100 Agricultural Engineering Building
662-325-3280
contact: abe_head@abe.msstate.edu

Graduate study is offered in the Department of Agricultural and Biological Engineering leading to the degree of Master of Science in Biological Engineering or a Doctor of Philosophy in Engineering. Major areas of study are: agricultural machinery systems, precision agriculture, animal waste management, sustainable design, pesticide applications and protection, bioenvironmental systems, seed processing and storage, aquacultural systems, and agricultural modeling. The department has several major research laboratories including: remote sensing (the Kimbrough Precision Agriculture and Remote Sensing Engineering Laboratory), water quality and environmental engineering, and cotton ginning (the MAFES/ABE Mini-Gin, a fully operational cotton gin). A limited number of graduate research and teaching assistantships are available.

**Admission Criteria**—Prerequisites for admission into the graduate program include all the general requirements of the Office of Graduate Studies, an undergraduate engineering degree (or remedial engineering course work), completion of the GRE general test and the submission of scores, and identification of a departmental professor who is willing to serve as research director for the master’s or Ph.D. project. International students must obtain a TOEFL score of 550 or higher.

**Program of Study and Completion Requirements**—The Master of Science in Biological Engineering requires 24 credit hours of course work beyond the baccalaureate degree, at least one-half of which must be from 8000 level courses or above, and six or more credit hours of research/thesis. Required courses are ST 8114, one credit hour of ABE 8921, or ABE 8931, and at least one other graduate course from the Agricultural and Biological Engineering course listing. A thesis and an oral comprehensive examination in defense of the thesis are required. Doctoral students are required to take or have credit in a graduate level math course, complete a minimum of 60 credit hours of course work beyond the baccalaureate degree, at least one-half of which must be from 8000 level courses or above, including at least two credit hours of ABE 8911, ABE 8921, or ABE 8931. Twenty hours of research, a preliminary examination, a dissertation, and an oral examination in defense of the dissertation are required.

**Provisional Admission**—If a student does not fully meet the admission requirements of the program, it may be possible for that student to be provisionally admitted. If provisionally admitted, the student must attain a 3.00 GPA on the first nine hours of graduate courses at Mississippi State University. If a 3.00 GPA is not attained, the student may be dismissed from the graduate program.

If a student applying to the M.S. program does not have an undergraduate degree in engineering, the student will be required to complete or have previous credit in 51 hours of engineering, mathematics, and physical science courses. The student will be granted contingent admission until the course requirement has been satisfied. Similarly, a student applying to the Ph.D. program must have a B.S. or M.S. degree in engineering. The same set of courses will be required before the student is fully admitted into the Ph.D. program.
Academic Performance—Unsatisfactory performance in the graduate program in Agricultural and Biological Engineering is defined as any of the following: failure to maintain a B average in attempted graduate courses after admission to the program, a grade of U, D, or F in any one course, more than two grades below a B, failure of the preliminary exam (Ph.D. students only), failure of the research defense, unsatisfactory evaluation of a thesis or dissertation, or failure of a required component of the program of study. Any one of these, or a combination of these, will constitute the basis for review for possible dismissal. The graduate coordinator will review the record, along with the student’s graduate committee, and take a final course of action, which will be immediate dismissal or the establishment of a probationary period in which corrective action must take place. Appeal of dismissal can be made by submitting a written appeal statement to the department head. If the dismissal is upheld by the department head upon the student’s appeal, the student can then submit a written appeal to the dean of the College of Engineering.

Graduate Courses—Course prerequisites are noted in parentheses.

Biological Engineering:

ABE 6111 Biological Engineering Principles Laboratory (co-requisite: ABE 4812). 1 hour

ABE 6122 Biological Engineering Practices Laboratory. 2 hours

ABE 6413 Biological Control Systems (ABE 4312, MA 2913). 3 hours

ABE 6423 Bioinstrumentation II (ABE 3413 or graduate standing). 3 hours

ABE 6453 Cotton Ginning Systems and Management. 3 hours

ABE 6483 Introduction to Remote Sensing Technology (graduate standing or consent of instructor). 3 hours

ABE 6513 Dynamics of Aging (ZO 1023). 3 hours

ABE 6523 Biomedical Materials (ABE 3813 or CHE 3413 or ME 3403). 3 hours

ABE 6533 Rehabilitation Engineering (senior standing in College of Engineering). 3 hours

ABE 6613 Biomechanics (EM 2413 and ME 3403). 3 hours

ABE 6624 Experimental Methods in Materials Research (CHE 3413 or ABE 3813). 3 hours

ABE 6803 Biosystems Simulation. 3 hours

ABE 6812 Principles of Engineering Design. 2 hours

ABE 6821 Practices of Engineering Design (ABE 4812). 1 hour

ABE 6863 Seed Conditioning Machinery (Same as AGN 6233). 3 hours

ABE 6990 Special Topics in Agricultural and Biological Engineering. 1-9 hours

ABE 7000 Directed Individual Study. 1-6 hours

ABE 8000 Research/Thesis. 1-6 hours

ABE 8314 Corrosion of Biomedical Implants. 4 hours

ABE 8501-8531 Journal Reviews in Biomedical Engineering. 3 hours

ABE 8801 Clinical Experience for Biomedical Engineering (graduate standing in the Biomedical Engineering Program and consent of instructor). 1 hour

ABE 8911 Agricultural and Biological Engineering Seminar. 1 hour

ABE 8921 Agricultural and Biological Engineering Seminar. 1 hour

ABE 8931 Agricultural and Biological Engineering Seminar. 1 hour

ABE 8990 Special Topics in Agricultural and Biological Engineering. 1-9 hours

ABE 9000 Research/Dissertation. 20 hours

Agricultural Engineering Technology:

ABE 6163 Agricultural Machinery Management (ABE 1863). 3 hours

ABE 6263 Soil and Water Management (ABE 2873). 3 hours

ABE 6383 Building Construction (EG 1143). 3 hours

ABE 6473 Electrical Application (ABE 1863). 3 hours
Agricultural and Extension Education
(See Agricultural Information Science and Education)

Agricultural Economics
College of Agriculture and Life Sciences
Dr. Vance Watson, Dean
Dr. Steven C. Turner, Head
Dr. Stan Spurlock, Graduate Coordinator
300 Lloyd-Ricks Building
662-325-2750
webmaster@agecon.msstate.edu

The Department of Agricultural Economics offers degree programs leading to the Master of Science in Agriculture with a concentration in Agricultural Economics and the Master of Agribusiness Management (M.A.B.M.). These programs stress thorough mastery of advanced economic theory, methods of quantitative analysis, and the applications of these methods to the problems of agriculture. The broad program of economic research conducted by the department affords a wide selection of areas from which the student may choose a specific problem for research. The Master of Agribusiness Management program is an interdisciplinary program administered by the Agribusiness Institute. It is described elsewhere in this publication.

The Master of Science in Agriculture with a concentration in Agricultural Economics program is designed for the student to begin graduate course work in a fall semester; thus, the student must submit application materials prior to July 1. However, graduate research assistantship decisions are usually made in March, and admission to the program must be obtained before an assistantship may be granted. Students are encouraged to apply no later than February. For additional program information, e-mail Dr. Stan Spurlock, Graduate Coordinator, at spurlock@agecon.msstate.edu or telephone at 662-325-7995.

Admission Criteria—To obtain regular admission status to the M.S. program, an applicant must meet all University-wide graduate admission requirements and must achieve acceptable scores on each section of the GRE (verbal, quantitative, and analytical). A minimum TOEFL score of 575 is required for all international students affected by this policy.

Program of Study—A minimum of 32 graduate credit hours must be completed for the M.S. degree. In the thesis option, the student must take at least six hours of research/thesis (up to six of these hours may substitute for course work hours). In the non-thesis option, the student must take from one to six directed individual study hours toward a research paper (up to six of these hours may substitute for course work hours). The student must include each of the required courses on the program of study and must make sure that 8000-level courses make up at least 15 of the total course credit hours, not including thesis research hours or directed individual study hours, on the program of study.

The curriculum is designed as a lock-step sequence of 23 hours of core course work. The remaining hours may be a combination of approved electives, research/thesis, or directed individual study hours used toward a research paper. Any course used as an approved elective must be included on the program of study.

In addition to the core course requirements (see list below), the student must take at least one of the following courses (unless the student has already received undergraduate credit for the course or its equivalent; re-taking a 4000-level course for 6000-level credit is not allowed):
AEC 6113 Agribusiness Firm Management
AEC 6343 Advanced Farm Management
AEC 6413 Public Problems of Agriculture

In addition, each student must take AEC 6133 Agricultural Marketing and Price Analysis (or its equivalent) either prior to or in conjunction with AEC 8163 Consumers, Producers, and Markets. A comprehensive academic examination over the student’s course work is administered after completion of the course work. Upon completion of the thesis (or the research paper in the non-thesis option), the student must present and defend his or her work.

Provisional Admission—A student who initially obtains provisional admission status must receive a 3.00 GPA on the following courses that are to be taken in the first fall semester in order to achieve regular admission status:
AEC 6713  Quantitative Economics
AEC 6733  Econometric Analysis in Agricultural Economics
AEC 8163  Consumers, Producers, and Markets

Academic Performance—A student will be dismissed from the M.S. program for any of the following reasons:
1. Making more than two grades below a B on courses on the student’s program of study.
2. Comprehensive academic examination:
   a) Failure to sit for this exam within the semester following the completion of course work, unless granted a postponement due to extenuating circumstances.
   b) Failure to sit for a required retake of this exam at the first opportunity.
   c) Failure to obtain a passing grade on this exam.
(A student may appeal a dismissal decision by following normal appeal procedures.)

Prerequisite and Core Courses—A student must have previously completed the following undergraduate courses (or their equivalents) with a grade of C or higher before beginning the required graduate course sequence:
AEC 1223  Computer Applications for Agriculturists and Life Scientists
EC 3113  Intermediate Macroeconomics
EC 3123  Intermediate Microeconomics
MA 1613  Calculus for Business and Life Sciences I
ST 2113  Statistics for the Behavioral Sciences.

The student admitted to the program enrolls in a rigorous core curriculum composed of courses in microeconomic and macroeconomic theory, quantitative techniques, and research methods. The student is required to follow a “lock-step” curriculum as specified below:

Fall Semester, First Year
AEC 8611  Research Seminar I. 1 hour
AEC 6713  Quantitative Economics. 3 hours
AEC 6733  Econometric Analysis in Agricultural Economics. 3 hours
AEC 8163  Consumers, Producers, and Markets. 3 hours

Spring Semester, First Year
AEC 8621  Research Seminar II. 1 hour
AEC 6723  Modeling for Agricultural Management. 3 hours
AEC 8143  Agricultural Production Economics. 3 hours
AEC 8123  Market Organization and Structure. 3 hours

Fall Semester, Second Year
EC 8173  Macroeconomics I. 3 hours

Completion Requirements—The thesis (or research paper under the non-thesis option) is completed under the supervision of the student’s graduate committee. Completion of the degree requires students to present and defend his/her research work to the satisfaction of the Agricultural Economics faculty.

Agricultural Information Science and Education
College of Agriculture and Life Sciences
Dr. Vance Watson, Dean
Dr. Walter N. Taylor, Department Head and Graduate Coordinator
130 Lloyd Ricks
662-325-3326

The Department of Agricultural Information Science and Education offers graduate courses leading to the following degrees:
- Master of Science in Agriculture with a concentration in Agricultural and Extension Education
- Educational Specialist, Doctor of Education, and Doctor of Philosophy degrees in Education with a concentration in Agricultural and Extension Education.

Three options are available in the Master of Science in Agriculture degree program with a concentration in Agricultural and Extension Education: Research, Leadership, and Teacher Certification.

Admission Criteria—To obtain admission to the graduate program, the applicant must meet all the general requirements of the Office of Graduate Studies. The Master of Science teacher certification option, the Educational Specialist degree, and the Doctoral degree programs are offered through the College of Education and all requirements of that college must be met. A student applying to the Master of Science teacher certification option must have an
undergraduate degree in an agricultural science and submit GRE verbal, quantitative, and analytical scores. The student must qualify for admission to teacher education by presenting an ACT score of 21 (SAT equivalent of 860) with no sub-score below 18, or by obtaining at least the following scores:

Pre-Professional Skills Test (PPST)
- Reading: 170
- Writing: 172
- Mathematics: 169

OR

Computer Based Test
- Reading: 316
- Writing: 318
- Mathematics: 314

The applicant to the Educational Specialist degree program must have a 3.20 GPA and those to the Doctoral degree a 3.00 GPA on a 4.00 scale in all prior graduate study.

Provisional Admission—The student who has not fully met the requirements stipulated by the University and the appropriate department for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. Such students must have as their initial objective advancement to regular status.

A provisional student must receive a 3.00 GPA on the first nine hours of graduate level courses on the program of study taken at Mississippi State University in order to achieve regular status. Neither transfer hours nor unclassified graduate hours can be used to fulfill this requirement. If a 3.00 is not attained, the provisional student may be dismissed from graduate study. While in the provisional status, a student is not eligible to hold a graduate assistantship.

Program of Study/Completion Requirements - Master of Science (M.S.)—A minimum of 30 hours of course work in a planned program of study must be completed for the M.S. degree. A minimum of one-half the total credit hours on the program of study must be at the 8000 level. In the thesis option, the student must take at least six hours of research/thesis (up to six hours of these substitute for course work hours). The required courses for the research option are: AIS 8803, AIS 8006, AIS 8403, AIS 8503, and ST 8114 or EPY 6214 or other graduate level statistics courses. The required courses for the leadership option are AIS 8803 or AIS 8403, AIS 8503, AIS 8523, and AIS 8263 or AIS 8203. The remaining courses in the research and leadership options may be a combination of approved electives or those to comprise a minor. A faculty member from the minor area should also be a member of the student’s graduate committee.

Depending on the courses taken at the undergraduate level, a student in the teacher certification option may be required to take three-six additional hours of prerequisite course work. Specific course requirements for the teacher certification option are EPY 6313, EPY 6033, EDF 8355, EDF 8363, EDX 8173, AIS 6403 or AIS 8503, AIS 8403, and AIS 8606. Faculty in the Department of Agricultural Information Science and Education must approve substitutions for any of the above courses. A student must have earned at least a 3.00 GPA on course work taken on the program to be eligible to student teach. An Application for Admission to Student Teaching form must be submitted to the Director of Clinical/Field Based Instruction one semester prior to student teaching. The student must submit a Praxis - Principles of Learning and Teaching (PLT) score of at least 152 to the Mississippi State University College of Education to meet graduation requirements and to the Mississippi Department of Education to obtain licensure. To be eligible for graduation, students must also have a 3.00 GPA after admission to the program.

To secure a Mississippi educator’s license, the student must request that ETS send a copy of his or her score on the Principles of Learning and Teaching (PLT) to Mississippi State University (Code R1480) or to MSU Meridian (Code R3336). It is imperative that the student retains the originals of test scores in a safe place.

In accordance with statutory provisions, the Mississippi Department of Education, Jackson, Mississippi, has adopted the rules and regulations on issuing and renewing teaching licenses, which are set forth in Guidelines for Mississippi Educator Licensure, July 1999. The licensure program is applicable to all teacher licenses. Satisfactory completion of any teaching curriculum offered by the College of Education will enable the graduate to apply for teaching licensure in Mississippi, but this institution can neither waive any licensure requirements nor authorize substitutions for mandatory courses. Mississippi State University has submitted and received approval for its programs. Consequently, a student who plans to transfer from another university or college to the College of Education should consult with the Director of Clinical/Field Based instruction or an advisor in the College of Education to ascertain the general education, professional educational, and specialized education courses which must be completed to obtain a teaching license in the field or fields of his or her choice. Since teacher
licenses are issued by the Mississippi Department of Education only, and not by the teacher education institutions, applications for licensure and original test scores must be filed with the Mississippi Department of Education by the applicant. Information concerning teacher licensure can be obtained from the Office of Clinical/Field-Based Instruction.

A written or oral final comprehensive examination is required for the student in the teaching and leadership degree options. A student in the thesis option must pass a final thesis examination and submit the thesis.

Educational Specialist (Ed.S.)—The program of study for the Educational Specialist degree must contain a minimum of 30 semester hours above the master’s degree. Required courses are AIS 7003, AIS 8203, or AIS 8263, AIS 8703, AIS 8803, AIS 6403, or AIS 8243. A three-hour Directed Individual Study (AIS 7003) and a final written or oral comprehensive examination are required.

Doctoral Degrees (Ph.D. and Ed.D.)—The minimum requirement for the Doctor of Philosophy (Ph.D.) and Doctor of Education (Ed.D.) degrees is the completion of 90 semester hours of graduate credit on an approved program of study above the bachelor’s degree. Required courses for the Ph.D. include 24-36 hours of graduate credit in the Department of Agricultural Information Science and Education, (AIS 8593 is required), 23-26 graduate credits in College of Education core courses, 15 to 18 graduate credits in a minor or supporting area, 11 to 13 hours of elective credits, and 20 semester hours of research/dissertation. Requirements for the Ed.D. degree are similar. The students must complete 24-26 graduate credit hours in Agricultural Information Science and Education (AIS 8593 is required), 20-23 hours of College of Education core courses, 15-30 hours in a supporting area or minor, 11 hours of elective credits, and 20 hours of dissertation research. Students in both degree programs must pass a written and an oral comprehensive examination in both the major and minor/supporting area. Students must also pass the final dissertation examination. The student’s graduate committee supervises the dissertation and examinations.

Academic Performance—Unsatisfactory performance may be defined as the failure to maintain a B average in graduate courses attempted after admission to the program, a grade of U, D, or F in any course, more than two grades below a B, failure of the comprehensive/preliminary examination, an unsatisfactory evaluation of a thesis or dissertation, failure of the research defense, or any other failure of a required component on one’s program of study. Any one of these or a combination of these may constitute the basis for the termination of a student’s graduate study in a degree program.

To be eligible for the comprehensive/preliminary examination, a graduate student must have a 3.00 GPA on all graduate courses taken after being admitted to the degree program.

Upon the recommendation of the major professor or the department graduate coordinator, and the dean, a student whose academic work is unsatisfactory at any period during a given semester or term may be forced to withdraw from a graduate program. Both the College of Agriculture and Life Sciences and the College of Education define “unsatisfactory” as making more than two grades below C. A student forced to withdraw can appeal to department faculty. If upheld by the faculty, then the student can submit a written appeal to the department head. If upheld there, the student may appeal the appropriate dean of the college where the degree is housed (either the COE OR CALS).

Prerequisites and Core Courses:
AIS 6103 Objectives and Procedures of Programs in Agricultural Information Science and Education. 3 hours
AIS 6203 Applications of Computer Technology to Agricultural Information Science and Education. 3 hours
AIS 6303 Applications of Information Technologies in Agricultural Learning Systems. 3 hours
AIS 6403 Development of Youth Programs. 3 hours
AIS 6443 Vo-Ed Curricula and Techniques of Teaching the Rural Disadvantaged. 3 hours
AIS 6453 Cooperative Programs in Occupations Served by Agricultural Information Science and Education. 3 hours
AIS 6503 International Agricultural Education. 3 hours
AIS 6990 Special Topics in Agricultural Information Science and Education. 1-9 hours
AIS 7000 Directed Individual Study. 1-6 hours
AIS 8000  Research/Thesis. 6 hours
AIS 8203  Advanced Communication in Agricultural Information Science and Education. 3 hours
AIS 8213  Comprehensive Instructional Programs. 3 hours
AIS 8243  Administration and Supervision in Agricultural Information Science and Education. 3 hours
AIS 8263  Public Relations in Agricultural Information Science and Education. 3 hours
AIS 8403  Directing Learning Experiences in Agricultural Information Science and Education. 3 hours
AIS 8503  Program Planning and Development in Agricultural Information Science and Education. 3 hours
AIS 8523  Teaching Out-of-School Groups in Agricultural Information Science and Education. 3 hours
AIS 8533  Workshop in Agricultural Information Science and Education. 3 hours
AIS 8593  History, Philosophy, and Policy of Agricultural Information Science and Education. 3 hours
AIS 8606  Student Teaching in Agricultural Information Science and Education (admission to the graduate certification program, teacher education and student teaching). 6 hours
AIS 8703  Evaluation of Agricultural Information Science and Education Programs. 3 hours
AIS 8803  Applying Research Methods to Agricultural Information Science and Education. 3 hours
AIS 8990  Special Topics in Agricultural Information Science and Education. 1-9 hours
AIS 9000  Research/Dissertation. 20 hours

Agronomy
(See Plant and Soil Sciences)

Animal and Dairy Sciences
College of Agriculture and Life Sciences
Dr. Vance Watson, Dean
Dr. Terry E. Kiser, Department Head
P.O. Box 9815
4025 Wise Center
662-325-2802
tkiser@ads.msstate.edu

Admission Criteria—The Animal and Dairy Science program offers graduate study toward the Master of Science in Agriculture with concentrations in Animal Nutrition and Animal Science, and toward the Master of Science in Agricultural Life Sciences with concentrations in Animal Physiology and Genetics. Doctor of Philosophy programs in Nutrition, Food Science, Animal Physiology, and Genetics are also available through the interdisciplinary programs (refer to the specific interdisciplinary program of study elsewhere in the Graduate Bulletin for program-specific guidelines in addition to those listed here).

Admission Criteria—A minimum of 3.00 GPA is required for the Animal Physiology concentration. An applicant is required to submit Graduate Record Examination (GRE) scores, and an international applicant is required to have a 575 TOEFL score.

Program of Study—The program of study is developed by the student and his/her major professor with approval by the student’s graduate committee and in accordance with the guidelines of the Office of Graduate Studies, CALS, and/or interdisciplinary program requirements.

Provisional Admission—Provisional admission requirements may be indicated by the student’s major professor or imposed by the Office of Graduate Studies in accordance with University admission policies.

Academic Performance—The Department of Animal and Dairy Sciences applies the academic performance standards of the Office of Graduate
Studies and CALS. Students are referred to these criteria for provisional admission, contingent admission, academic performance, and dismissal policies.

**Prerequisite and Core Courses**—The student should refer to the interdisciplinary concentration descriptions for any prerequisite or core course requirements that would be part of the program of study for Animal Physiology, Animal Nutrition, and Genetics. Specifically for the M.S. degree in Agriculture with a concentration in Animal Science, the student must have completed or will be required to complete in addition to the graduate course work, the following courses: Animal Breeding, Animal Nutrition, Animal Reproduction, Meats Processing, and an animal production species-specific course, or equivalent course work, at the undergraduate or graduate level. Additionally, core courses as part of the program of study must include ST 8114, a graduate level biochemistry course (three hours minimum), and a graduate level physiology course (preferably ADS 6000 or 8000 level).

**Completion Requirements**—M.S. thesis and Ph.D. candidates are required by the Department Animal and Dairy Sciences to submit a written proposal of the intended research area during the first year of the graduate program, in addition to the submission of an annual progress report of research, teaching, extension and service activities, and a final written and oral presentation of the thesis or dissertation work. For Ph.D. candidates, an oral and written preliminary/comprehensive examination will be administered by the student’s graduate committee in accordance with the Office of Graduate Studies guidelines prior to the submission or defense of dissertation research.

**Graduate Courses**—Course prerequisites are noted in parentheses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Required Credits</th>
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</thead>
<tbody>
<tr>
<td>ADS 6113</td>
<td>Swine Science (ADS 1114)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ADS 6115</td>
<td>Animal Nutrition (CH 2503 and CH 2501 or CH 4513 and CH 4511)</td>
<td>5 hours</td>
</tr>
<tr>
<td>ADS 6123</td>
<td>Animal Breeding (PO 3103)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ADS 6212</td>
<td>Livestock Evaluation (ADS 3213)</td>
<td>2 hours</td>
</tr>
<tr>
<td>ADS 6213</td>
<td>Livestock Nutrient Requirements and Formulation of Rations</td>
<td>3 hours</td>
</tr>
<tr>
<td>ADS 6232</td>
<td>Advanced Livestock Evaluation (ADS 6222)</td>
<td>2 hours</td>
</tr>
<tr>
<td>ADS 6243</td>
<td>Composition and Chemical Reactions of Foods (CH 1053 and 2503, or equivalent) [same as FST 6243]</td>
<td>3 hours</td>
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<tr>
<td>ADS 6314</td>
<td>Meats Processing [same as FST 6314]</td>
<td>4 hours</td>
</tr>
<tr>
<td>ADS 6323</td>
<td>Beef Cattle Science (ADS 1114)</td>
<td>3 hours</td>
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<tr>
<td>ADS 6333</td>
<td>Equine Exercise Physiology (ADS 3232)</td>
<td>3 hours</td>
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<tr>
<td>ADS 6611</td>
<td>Practices in Physiology of Reproduction (BIO 1504) [same as PHY 6611]</td>
<td>1 hour</td>
</tr>
<tr>
<td>ADS 6613</td>
<td>Physiology of Reproduction (BIO 1504) [same as PHY 6613]</td>
<td>3 hours</td>
</tr>
<tr>
<td>ADS 6623</td>
<td>Physiology of Lactation (BIO 1504) [same as PHY 6623]</td>
<td>3 hours</td>
</tr>
<tr>
<td>ADS 6814</td>
<td>Dairy Farm Management (ADS 1114)</td>
<td>4 hours</td>
</tr>
<tr>
<td>ADS 6990</td>
<td>Special Topics in Animal and Dairy Science</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>ADS 7000</td>
<td>Directed Individual Study</td>
<td>1-6 hours</td>
</tr>
<tr>
<td>ADS 8233</td>
<td>Advanced Breeding (ADS 4123/6123 or PO 4303/6303, ST 8114)</td>
<td>3 hours</td>
</tr>
<tr>
<td>ADS 8243</td>
<td>Advanced Physiology of Reproduction (ADS 4613/6613 or equivalent) [same as PHY 8243]</td>
<td>3 hours</td>
</tr>
<tr>
<td>ADS 8423</td>
<td>Meat Science (CH 4513/6513 or equivalent and MIC 2404 or equivalent) [same as FST 8423]</td>
<td>3 hours</td>
</tr>
<tr>
<td>ADS 8433</td>
<td>Bone, Muscle, and Fat Deposition in Animals (BCH 4613/6613) [same as PHY 8433]</td>
<td>3 hours</td>
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<tr>
<td>ADS 8453</td>
<td>Statistical Genetics (ST 8114, ADS 4123/6123) [same as GNS 8453]</td>
<td>3 hours</td>
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<tr>
<td>ADS 8633</td>
<td>Homeostatic Regulation and Physiological Stress (PHY 6514 and PHY 8134 or consent of instructor) [same as PHY 8633]</td>
<td>3 hours</td>
</tr>
<tr>
<td>ADS 8811</td>
<td>Advanced Seminar</td>
<td>1 hour</td>
</tr>
</tbody>
</table>
The graduate program in Animal Physiology is an interdisciplinary curriculum leading to a Master of Science in Agricultural Life Sciences and/or Doctor of Philosophy degree with course offerings from several departments including, but not exclusively, Animal and Dairy Sciences; Basic Science (College of Veterinary Medicine); Biochemistry and Molecular Biology; Biological Sciences; Entomology and Plant Pathology; Poultry Science; and Wildlife and Fisheries. The program of study is developed by the student and his/her major professor with the approval of the student’s graduate program committee. Specific courses vary depending on the needs of the student. A limited number of assistantships are available to qualified applicants.

**Admission Criteria**—Prerequisites for admission include a bachelor’s or master’s degree in animal, dairy or poultry science; human sciences; wildlife; fisheries or aquatic science; biological or physical science; or a doctor of medicine or veterinary medicine degree with an adequate background in chemistry. A minimum of 3.00 overall grade point average (GPA) on a 4.00 scale is required. A student who has not fully met the requirements stipulated by the University and the program for admission (i.e., students with 2.50 to 2.99 GPA) may be granted admission to the Animal Physiology program with provisional status. The Graduate Record Exam (GRE) is not required for admission, but applicants are required to attempt the GRE and a score of 1100 (verbal and quantitative) or better is desirable. A computer-based TOEFL score of 575 or better is required of all international applicants. Letters of recommendation are required of all applicants.

**Program of Study: Master of Science (M.S.)**—The Master of Science degree requires a minimum of 30 hours of graduate credit (including six hours of Research/Thesis), a research thesis, and thesis defense. The Animal Physiology Program does not offer a non-thesis M.S. degree. The student is required to take at least two hours of Physiology Seminar (PHY 8811-41). Other course requirements may include BCH 6603 and/or BCH 6613 and ST 8114 or equivalents. Of the 24 hours (minimum number of hours) of graduate course work required, half must be taken at the 8000 level. A minor is not required but if selected an additional nine hours of credit is required and a committee member from the minor area is required. A graduate program of study should be submitted and approved by the student’s graduate committee and graduate coordinator by the end of the first semester of graduate study. The graduate committee should be composed of the major professor and two committee members, one of whom should be a member of the Animal Physiology graduate faculty and the other may be a minor professor. Additional committee members may be included at the discretion of the major professor.

**Program of Study: Doctor of Philosophy (Ph.D.)**—The Ph.D. in Animal Physiology requires a minimum of three academic years beyond the B.S. degree; the number of hours will vary as determined by the student and major professor. The student is required to take at least three hours of Physiology Seminar (PHY 8811-41). Other course requirements may include BCH 6603, BCH 6613, ST 8114, and ST 8214 or equivalents. A minor is not required, but if a minor is selected an additional 12 hours of graduate credit is required and a committee member from the minor area is required. The preliminary/comprehensive examination must be attempted by the end of the fifth semester of the program. A program of study should be submitted and approved by the student’s graduate committee and graduate coordinator by the end of the first semester of graduate study. If a minor is selected, the graduate committee should be composed of at least five members including the major professor, who must be a full member of the Animal Physiology graduate faculty; at least two additional members of the Animal Physiology graduate faculty and two additional members, one of whom must be from the minor field; the other may be from outside the major area. Additional committee members may be included at the discretion of the major professor.
Academic Performance and Continued Enrollment—Continuous enrollment in the Animal Physiology Program is dependent upon satisfactory evaluation of academic performance and progress toward the completion of the respective research degrees. A student will be recommended for dismissal if he/she receives more than two grades of C or any grade below a C in courses taken for credit.

Completion Requirements—M.S. and Ph.D. candidates are required by the Animal Physiology Program to submit a written proposal of the intended research area during the first year of the graduate program, in addition to the submission of an annual progress report of research, teaching, and/or extension and service activities of the thesis or dissertation work. For the Ph.D. candidates, a written and oral preliminary/comprehensive examination will be administered by the student’s graduate committee in accordance with Office of Graduate Studies guidelines prior to the submission of defense of dissertation research.

Provisional Admission—A student recommended for provisional admission is required to achieve a 3.00 GPA on the first nine hours of graduate courses in order to achieve regular status. Neither transfer hours nor unclassified graduate hours can be used to fulfill this requirement. If a 3.00 is not attained, the provisional student may be dismissed from the program and graduate study. An overall GPA of 3.00 is required for graduation. To be eligible for the comprehensive/preliminary examination, a graduate student must maintain an overall B average in all graduate courses attempted after admission to the program.

General Information—The Animal Physiology graduate faculty is listed below. For additional information, contact the Animal Physiology Graduate Coordinator, Box 9815, Mississippi State University, MS 39762 or by email at pryan@ads.msstate.edu. An application for admission should be submitted directly to the Office of Graduate Studies, P. O Box G, Mississippi State, MS 39762.

Faculty

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Title/Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jerald Ainsworth</td>
<td>Professor and Associate Dean for Research and Graduate Studies, College of Veterinary Medicine</td>
</tr>
<tr>
<td>Thomas G. Althen</td>
<td>Professor</td>
</tr>
<tr>
<td>John A. Boyle</td>
<td>Professor and Head Biochemistry and Molecular Biology</td>
</tr>
<tr>
<td>Randal K. Buddington</td>
<td>Professor Biological Sciences</td>
</tr>
<tr>
<td>Howard Chambers</td>
<td>Professor Entomology</td>
</tr>
<tr>
<td>Janice E. Chambers</td>
<td>Professor Basic Science, College of Veterinary Medicine</td>
</tr>
<tr>
<td>Timothy N. Chamble</td>
<td>Associate Professor Poultry Science</td>
</tr>
<tr>
<td>Angelica Chapa</td>
<td>Assistant Extension Specialist Animal and Dairy Sciences</td>
</tr>
<tr>
<td>John Fuquay</td>
<td>Professor Emeritus Animal and Dairy Sciences</td>
</tr>
<tr>
<td>Christopher McDaniel</td>
<td>Associate Professor Poultry Science</td>
</tr>
<tr>
<td>Terry E. Kiser</td>
<td>Professor and Head Animal and Dairy Sciences</td>
</tr>
<tr>
<td>Erdogan Memili</td>
<td>Assistant Professor Animal and Dairy Sciences</td>
</tr>
<tr>
<td>G. Wallace Morgan</td>
<td>Professor and Head Poultry Science</td>
</tr>
<tr>
<td>Molly Nicodemus</td>
<td>Assistant Professor Animal and Dairy Sciences</td>
</tr>
<tr>
<td>E. David Peebles</td>
<td>Professor Poultry Science</td>
</tr>
<tr>
<td>Peter L. Ryan</td>
<td>Assistant Professor and Graduate Coordinator Animal and Dairy Sciences and Pathobiology and Population Medicine</td>
</tr>
</tbody>
</table>

95
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHY 6114</td>
<td>Cellular Physiology</td>
<td>4 hours</td>
</tr>
<tr>
<td>PHY 6335</td>
<td>Anatomy and Physiology of Insects (ENT 6154)</td>
<td>5 hours</td>
</tr>
<tr>
<td>PHY 6514</td>
<td>Animal Physiology</td>
<td>4 hours</td>
</tr>
<tr>
<td>PHY 6611</td>
<td>Practice in Physiology of Reproduction (ADS 6613 or taken concurrently)</td>
<td>1 hour</td>
</tr>
<tr>
<td>PHY 6613</td>
<td>Physiology of Reproduction (BIO 1504 or VS 2014)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PHY 6623</td>
<td>Physiology of Lactation (VS 2013 or BIO 1504)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PHY 6843</td>
<td>Poultry Physiology</td>
<td>3 hours</td>
</tr>
<tr>
<td>PHY 8000</td>
<td>Research/Thesis</td>
<td>6 hours</td>
</tr>
<tr>
<td>PHY 8131</td>
<td>Endocrine Methods</td>
<td>1 hour</td>
</tr>
<tr>
<td>PHY 8133</td>
<td>Endocrine Secretions</td>
<td>3 hours</td>
</tr>
<tr>
<td>PHY 8243</td>
<td>Advanced Physiology of Reproduction (ADS 6613)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PHY 8333</td>
<td>Advanced Toxicology (ENT 6543 or elementary biochemistry)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PHY 8433</td>
<td>Bone, Muscle, and Fat Deposition in Animals (BCH 6613)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PHY 8623</td>
<td>Physiology of Digestion and Metabolism (CH 6523)</td>
<td>3 hours</td>
</tr>
<tr>
<td>PHY 8633</td>
<td>Homeostatic Regulations and Physiological Stress (PHY 8134 and BIO 6514) (same as ADS 8633)</td>
<td>3 hours</td>
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<tr>
<td>PHY 8841</td>
<td>Animal Physiology Seminar</td>
<td>1 hour</td>
</tr>
<tr>
<td>PHY 8990</td>
<td>Special Topics in Physiology</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>PHY 9000</td>
<td>Research/Dissertation</td>
<td>20 hours</td>
</tr>
</tbody>
</table>

**Anthropology**

(See Sociology and Anthropology)

**Applied Economics**

An Interdisciplinary Program

College of Agriculture and Life Sciences

Dr. Vance Watson, Dean

College of Business and Industry

Dr. Sara Freedman, Dean

Department of Finance and Economics

Dr. Paul Grimes, Department Head

Dr. Ben Blair, Graduate Coordinator

326 McCool Hall

662-325-2341

gsb@cobilan.msstate.edu

grad-econ@cobilan.msstate.edu

The Ph.D. in Applied Economics is a cooperative program offered by the graduate economics faculty of the College of Business and Industry and the Agricultural Economics faculty of the College of Agricultural and Life Sciences. The program provides advanced training in economic science to prepare graduates for research and teaching positions in academia, government, and business. For additional program information, e-mail the Economics Graduate Coordinator at grad-econ@cobilan.msstate.edu or phone 662-325-2341.

**Admission Criteria**—To obtain regular admission status, an applicant must meet all University-wide graduate admission requirements
and must achieve acceptable scores on each section of the GRE (verbal, quantitative, and analytical). A minimum TOEFL score of 575 is required for international students.

A student must have previously completed intermediate microeconomics, intermediate macroeconomics, differential and integral calculus, and one semester of statistics before beginning the required course sequence. Applications are reviewed in the spring semester for enrollment in the following fall semester. Graduate research and teaching assistantship decisions are usually made in March.

Program of Study—The Ph.D. degree requires a minimum of 48 hours of course work plus a dissertation (minimum of 20 hours). Course work can be completed in two and one-half years, excluding summers. All students enroll in a core curriculum composed of courses in microeconomic theory, macroeconomic theory and econometrics. A preliminary qualifying examination over economic theory and quantitative skills is administered after completion of the first-year courses.

Guided by his or her interests and career goals, the student may specialize in a number of areas by taking either the College of Business and Industry track or the College of Agricultural and Life Sciences track. Specific applied fields of specialization available include financial economics, regional economic development, natural resource and environmental economics, international economics, public economics, labor economics, industrial organization, agricultural production and marketing economics, and economic history and history of economic thought. A field consists of a minimum of two approved graduate course electives in one area of specialization. A student entering through the College of Business and Industry earn an applied field in financial economics and one additional field. Although the Department of Finance and Economics and the Department of Agricultural Economics teach the approved field courses, a student may, in consultation with his or her program of study Committee, include courses from related disciplines such as business, public administration, mathematics, and statistics. Prior to entering the dissertation stage, the student must pass a written comprehensive examination over the applied skills courses.

The dissertation is completed under the supervision of a major professor and an advisory committee drawn from the graduate faculty in the Departments of Finance and Economics and Agricultural Economics. Completion of the degree requires the student to present and defend the dissertation work to the satisfaction of the graduate economics faculty.

Provisional Admission—A student who initially obtains provisional admission status must receive a 3.00 GPA on all core courses taken during the first nine hours of enrollment in the program to achieve regular admission status. Neither transfer hours nor unclassified graduate hours can be used to fulfill this requirement.

Academic Performance—The student will be dismissed from the Ph.D. program in Applied Economics for any of the following reasons:

1. Failure to complete each of the following core courses with a grade of C or higher:
   - EC 8163 Microeconomics I
   - EC 8263 Microeconomics II
   - EC 8173 Macroeconomics I
   - EC 8273 Macroeconomics II
   - EC 8133 Econometrics I
   - EC 8145 Econometrics II

2. Making more than two grades below a B on courses in the student’s program of study after admission to the program.

3. Qualifying examination:
   a) Failure to sit for this exam in the summer after the first year of course work, unless granted a postponement due to extenuating circumstances.
   b) Failure to sit for a required retake of this exam at the first opportunity.
   c) Failure to obtain a passing grade on this exam.

4. Applied skills paper:
   a) Failure to meet any deadline specified for this paper.
   b) Failure to obtain a passing grade on this paper.

A student may appeal a dismissal decision by following normal appeal procedures.

Prerequisite and Core Courses—A student must have previously completed the following undergraduate courses (or the equivalents) with a grade of C or higher before beginning the required graduate course sequence:

- MA 1613 Calculus for Business and Life Sciences I
- MA 1623 Calculus for Business and Life Sciences II
- EC 3113 Intermediate Macroeconomics
- EC 3123 Intermediate Microeconomics
- ST 2113 Statistics for the Behavioral Sciences

All students admitted to the program enroll in a rigorous core curriculum composed of courses in microeconomic and macroeconomic theory, econometrics, research methodology, and applied skills.
Curriculum Tracks—The student may choose from two curriculum tracks: one with specialized fields from the College of Business and Industry or one with specialized fields from the College of Agriculture and Life Sciences.

Business and Industry Track
Fall Semester, First Year
AEC 6713 Quantitative Economics. 3 hours
AEC 8163 Consumers, Producers, and Markets. 3 hours
EC 8522 Seminar in the History of Economic Thought. 2 hours
FIN 8112 Capital Acquisition and Allocation. 2 hours*
FIN 8122 Corporate Liquidity Analysis. 2 hours*

*May be waived by previous credit in FIN

Spring Semester, First Year
EC 8163 Microeconomics I. 3 hours
EC 8173 Macroeconomics I. 3 hours
EC 8133 Econometrics I. 3 hours

Fall Semester, Second Year
EC 8263 Microeconomics II. 3 hours
EC 8173 Macroeconomics II. 3 hours
EC 8133 Econometrics II. 3 hours

Spring Semester, Second Year
EC 8643 Advanced Estimation and Diagnostics of Econometric Models. 3 hours
AEC 8172 Topics in Applied Economics: Production and Supply. 2 hours
AEC 8722 Topics in Applied Economics: Marketing and Demand. 2 hours

Agricultural Economics Field Elective. 3 hours

Fall Semester, Third Year
AEC 8733 Topics in Applied Economics: Welfare Policy and Analysis. 3 hours
Agricultural Economics Field Elective. 3 hours
AEC 9000 Dissertation. 3 hours

Spring Semester, Third Year
Agricultural Economics Field Elective. 3 hours
AEC 9000 Dissertation. 6 hours

Fourth Year
AEC 9000 Dissertation. 11 hours minimum

Available Field Electives
Economic History and History of Economic Thought
EC 6183 U.S. Economic History
EC 6523 History of Economic Thought
AEC 8153 Research Philosophy and Methodology in Economics

Environmental and Natural Resource Economics
AEC 6233 Advanced Topics in Environmental Economics
AEC 8833 Environmental Resources and Economics

Experimental Economics
AEC 8843 Survey Design and Experimental Economics
AEC 7000 Readings in Experimental Economics

Finance
FIN 8223 Case Problems in Corporate Finance
FIN 8233 Advanced Financial Management
FIN 8313 Financial Management of Projects
FIN 8423 Portfolio Management
FIN 8723 Financial Institutions Management
FIN 8733 Financial Markets, Rates, and Flows

Agriculture and Life Sciences Track
Fall Semester, First Year
AEC 6713 Quantitative Economics. 3 hours
AEC 8163 Consumers, Producers and Markets. 3 hours
EC 8522 Seminar in the History of Economic Thought. 3 hours
EC 8153 Research Philosophy and Methodology in Economics. 3 hours

Spring Semester, First Year
EC 8163 Microeconomics I. 3 hours

EC 8173 Macroeconomics I. 3 hours
EC 8133 Econometrics I. 3 hours

Fall Semester, Second Year
EC 8263 Microeconomics II. 3 hours
EC 8173 Macroeconomics II. 3 hours
EC 8133 Econometrics II. 3 hours

Spring Semester, Second Year
EC 8643 Advanced Estimation and Diagnostics of Econometric Models. 3 hours
AEC 8172 Topics in Applied Economics: Production and Supply. 2 hours
AEC 8722 Topics in Applied Economics: Marketing and Demand. 2 hours

Agricultural Economics Field Elective. 3 hours

Fall Semester, Third Year
AEC 8733 Topics in Applied Economics: Welfare Policy and Analysis. 3 hours
Agricultural Economics Field Elective. 3 hours
AEC 9000 Dissertation. 3 hours

Spring Semester, Third Year
Agricultural Economics Field Elective. 3 hours
AEC 9000 Dissertation. 6 hours

Fourth Year
AEC 9000 Dissertation. 11 hours minimum

Available Field Electives
Economic History and History of Economic Thought
EC 6183 U.S. Economic History
EC 6523 History of Economic Thought
AEC 8153 Research Philosophy and Methodology in Economics

Environmental and Natural Resource Economics
AEC 6233 Advanced Topics in Environmental Economics
AEC 8833 Environmental Resources and Economics

Experimental Economics
AEC 8843 Survey Design and Experimental Economics
AEC 7000 Readings in Experimental Economics

Finance
FIN 8223 Case Problems in Corporate Finance
FIN 8233 Advanced Financial Management
FIN 8313 Financial Management of Projects
FIN 8423 Portfolio Management
FIN 8723 Financial Institutions Management
FIN 8733 Financial Markets, Rates, and Flows
Industrial Organization
EC 8183 Industrial Organization
EC 7000 Readings in Industrial Organization

International Economics
EC 6323 International Economic Relations
EC 6303 Theory of Economic Development
EC 8323 Economic Analysis of Developing Nations
AEC 8823 The International Economy
FIN 6923 International Financial Management

Public Economics
EC 6423 Introduction to Public Finance
EC 6433 Problems in State and Local Finance
EC 8423 Public Finance
AEC 8733 Topics in Applied Economics: Analysis Welfare and Policy

Labor Economics
EC 6213 Personnel Economics
EC 6223 Labor Law and Employment Policy
EC 8113 Labor Theory and Analysis

Regional Economic Development
EC 6313 Introduction to Regional Economics
EC 6333 Applied Regional Economics

Completion Requirements—The dissertation is completed under the supervision of the student’s Graduate Committee. Completion of the degree requires students to present and defend their dissertation work to the satisfaction of the Graduate Economics Faculty.

Architecture
College of Architecture, Art, and Design
Prof. James L. West, Dean
Dr. Larry Barrow, Department Head and Graduate Coordinator
Giles Hall
662-325-2202
gradoffice@coa.msstate.edu

Graduate study is offered in the College of Architecture, Art, and Design leading to the degree of Master of Science in Architecture. This program provides an extension and knowledge of skills in the areas of design, planning, visualization, CAD/CAM, housing, sustainability, and construction/manufacturing processes. This is a post-professional degree and does not lead to licensing in Architecture.

For additional information, contact the Graduate Program Coordinator, College of Architecture, P. O. Box AQ, Mississippi State, MS 39762.

Admission Criteria—Applicants must have a GPA of at least 3.00 and demonstrate competence in design, construction, or related academic work. This competence may be demonstrated through grades of B or better in design and computer science courses or through the submission of a portfolio. International students must have a TOEFL score of 600 or above and should submit GRE scores. Each applicant must submit an essay stating intent and aspirations for study.

Program of Study—The M.S. degree may be earned via two optional study tracts:

Plan A - Thesis: Requires 30 credit hours (24 graduate level course hours and six credit hours of research/thesis), and a comprehensive examination.

Plan B - Non-Thesis: Requires 32 graduate level credit hours includes (two credit hours of independent study for production of a professional paper or research project), and a comprehensive examination.

Research assistantships may be available for students in Plan A - Thesis option.

The Master of Science degree in Architecture offers an interdisciplinary, research-oriented academic experience for students from various fields who wish to use design visualization and information technology as a method of inquiry.
and problem solving. The degree program is appropriate for the student who has demonstrated a high level of success and potential for further development beyond undergraduate studies. An applicant should submit a portfolio of design construction, or related experience/work, preferably in digital form (CD, DVD, website, etc.). The entering class may include students from various design fields including interior design, landscape architecture, product design, construction management, art, etc. Diversity is preferred in the student composition. Interviews via email, phone or personal may be required at the discretion of the applicant review committee.

The Master of Science Degree in Architecture is not a professional degree; it does not lead to architectural licensing as does the school’s five-year Bachelor of Architecture Degree. Rather, this program offers the student an opportunity for exploration and research of architecture or a related field and utilizes technology as a problem-solving tool.

The degree program educates leaders and produces new knowledge in architecture and related fields. The program emphasizes process and product design in an interdisciplinary, intellectual context, and the mastery of emerging hardware and software is expected. The student will be given the opportunity and means to develop individual research agendas, mutually aligning with the program and faculty research agendas, and to collaborate with faculty and student colleagues on projects undertaken by the college. All students must purchase computers. In addition, students will have access to the college’s Digital Research and Imaging Laboratory (DRIL), which includes high-end workstations and a video-editing suite. Applied research is encouraged with related industries, architectural firms, and other research units in an effort to address pertinent problems in architecture and the built environment.

**Provisional Admission**—The applicant who has not fully met requirements stipulated by the University and the department for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. The student must have as his or her initial objective advancement to regular status.

A provisional student must receive a 3.00 GPA on the first nine hours of graduate level courses on the program of study taken at Mississippi State University in order to achieve regular status. Neither transfer credits nor unclassified graduate credits can be used to fulfill this requirement. If a 3.00 is not attained, the provisional student may be dismissed from graduate study. While in provisional status, a student is not eligible to hold a graduate assistantship.

**Academic Performance**—A student must maintain a 3.00 GPA after admission to the program. A student with a GPA below 3.00 will continue study on a probationary basis and be given one semester to achieve a GPA of 3.00. Failure to do so will result in dismissal from the program.

Plan A - Thesis: Requires 30 credit hours (24 graduate-level course hours with one-half at the 8000 level and six credit hours of Research/Thesis), and a thesis defense.

Plan B - Non-Thesis: Requires 32 graduate-level credit hours with 15 hours at the 8000 level (includes two credit hours of independent study for production of a professional paper or research project), and a comprehensive examination.

The student in Plan A - Thesis must pass a general exam for the thesis by the end of the first year. Failure to do so will result in a probationary status, and the student will not be allowed to register for second year classes until a pass is received from the committee. Failure to pass may ultimately result in dismissal from the program.

**Completion Requirements:**
Plan A - Thesis: Requires completion of the thesis to the satisfaction of the Thesis Committee and a thesis defense.

Plan B – Non-Thesis: Requires two credit hours of independent study for production of a professional paper or research project and a comprehensive examination.

**Graduate Courses**—Course prerequisites are noted in parentheses.

**First Year – Fall Semester**
- ARC 6114 Professional Practice Strategies. 4 hours
- ARC 8990 Architecture and Virtual Spaces. 1-9 hours
- ARC 8114 Digital Design I. 4 hours

**First Year – Spring Semester**
- ARC 8990 Computer-Aided-Design and Manufacturing (ARC 8113, 8123). 3 hours
**Art**

College of Architecture, Art, and Design

Prof. James L. West, Dean
Prof. Kay DeMarsche, Department Head and Graduate Coordinator

Freeman Hall
662-325-2970
da@ra.msstate.edu

NOTE: This program is no longer accepting applicants.

The Department of Art offers graduate work leading to a Master of Fine Arts degree in Electronic Visualization. The M.F.A. is a 60-hour terminal degree with an emphasis in Computer Animation, Multimedia, or Graphic Design.

**Admission Criteria**—A bachelor’s degree in the visual arts from an accredited university is required for admission into Animation and Multimedia. A bachelor’s degree in graphic design from an accredited university is required for admission into the Graphic Design track. The grade point average must be 3.00 on a 4.00 scale as an undergraduate and a 3.00 minimum on all graduate work; the grade point average in art courses taken should be a 3.00. International students must have a TOEFL (Test of English as a Foreign Language) score of 600 or higher to be considered for regular admission. In addition, a portfolio of the applicant’s creative work demonstrating a strong sense of color, aesthetic sensibility, and design will be required for evaluation. The portfolio should be a visual representation of the applicant’s creative experience and accomplishments and may consist of a combination of slides, video, or work on CD-ROM. Three letters of recommendation from people familiar with the applicant’s work, motivation, and character should accompany the application. All graduate transfer credit is to be evaluated by the Graduate Advisory Committee of the MSU Department of Art within the first semester of enrollment.

Applications are reviewed by the Graduate Advisory committee for the Department of Art. Under rare circumstances, certain admission requirements may be waived if the applicant’s total portfolio indicates that he/she can contribute in a meaningful way to the cross-disciplinary nature of emerging fields within multimedia animation, and/or graphic design.

Materials needed for application (admission applications due February 15):

1. To be sent to: Office of Graduate Studies
   P.O. Box G
   Mississippi State, MS 39762:
   a. formal application
   b. statement of purpose
   c. three letters of recommendation
   d. official academic transcripts

2. To be sent to: Graduate Coordinator
   Department of Art
   P.O. Box 5182
   Mississippi State, MS 39762:
   a. copy of the material submitted to the Office of Graduate Studies
   b. portfolio containing one or more of the following:
      - 20 slides in a slide sheet (labeled with Name, Title, Medium and Top of Image)
      - Video (VHS - no more than five minutes, cued)
      - CD-ROM (Macintosh)
      - DVD
      - URL for web based submissions
   c. artist’s statement/resume
   d. enclosed questionnaire.

If time based work submitted is part of a team project, the applicant’s contribution should be clearly identified. Incomplete applications will not be considered.

For additional information regarding the portfolio’s contents as well as additional departmental requirements and application dates, write to the Graduate Coordinator, Department of Art, P.O. Box 5182, Mississippi State, MS 39762.

**Program of Study**—The M.F.A. program seeks applicants with multi-disciplinary interests in art/design and new technologies. Applicants are expected to demonstrate creative problem solving skills and experience in using digital technologies.

It is expected that the M.F.A. candidate will complete the program in three years and no more than four. The student is required to have a personal computer to supplement equipment provided in the labs. A shared studio office space is made available to the student by the second year of enrollment.
The Master of Fine Arts Degree seeks to prepare students for a professional life in Multimedia, Animation, or Graphic Design. The objective of this terminal degree program is to provide a learning environment that is internationally competitive, where digital media can be combined with art and design skills, as well as applications from other disciplines. The curriculum is designed to encourage students to move beyond the knowledge and proficiencies in new media to use those tools as a creative means to produce conceptually, aesthetically, and culturally rich works of art from their individual perspectives. Each student is required to participate in periodic reviews by the Graduate Advisory Committee (GAC). A thesis committee of three faculty members supervises the development and completion of work in the final year. The summation of this endeavor is expected to be evidenced in the M.F.A. thesis and in the form of a final visual presentation, both of which aspire to contribute significantly to a rapidly changing discipline.

**Degree Requirements**

- 33 hours studio emphasis
- 9 hours theory
- 12 hours elective
- 6 hours research/thesis

Half of the course hours (excluding thesis and research) must be advanced graduate level courses (8000 level). Additional courses imposed by the GAC or by the student’s thesis committee are often recommended to address deficiencies and will not generally count as credits earned toward the degree. Due to the rapidly changing nature of digital media, the graduate curriculum course of study is modified frequently. New students will receive a current course of study at the fall orientation. What is represented in this catalogue is a broad guideline only.

**Contingent Admission**—Prior to arrival at the University, the graduate coordinator will provide contingent admission students with a written record of any individual requirements that may have been established as a condition of acceptance. The GAC will review the student’s work upon completion of the first year and make additional recommendations regarding the courses of study for the second year. During the second and subsequent years, a thesis committee will be responsible for reviewing the student’s progress and making recommendations to the GAC for additional course work. Should a consensus develop within the thesis committee or within the GAC that the quality or quantity of work being produced by an individual student does not meet department standards, a change in status will be recommended (i.e., additional course work, provisional standing, or dismissal.)

**Academic Performance**—A student may be terminated at the recommendation of the Department of Art Graduate Advisory Committee for failure to meet one or more of the required components of the degree. Failure in any one of the following components may result in termination of candidacy for the M.F.A. degree.

**Academic Achievement**—The student must maintain a 3.00 average after admission to the program; however, a grade of C or lower in two or more courses may be cause for dismissal at the discretion of the GAC.

**Full-Time Status**—The student is expected to be enrolled full-time for six consecutive semesters. Part-time status is granted only in the terminal semester when all other requirements have been met and only the thesis is pending. In the event of withdrawal or leave of absence, the student must reapply to the program for admission. Exceptions must be approved by the GAC and the department head.

**Professionalism**—The graduate student is expected to maintain a presence in the Department of Art. Regular attendance at gallery exhibitions, GAC meetings, orientation, and yearly reviews is expected. The student is expected to be familiar with and adhere to published policies regarding class attendance, responsible use of the facilities, and deadlines. Demeanor conducive to a positive academic climate is expected.

**Reviews**—A year-end review is scheduled for each student. The GAC will review the work of the student during the first three semesters; thereafter, reviews will be conducted by the major thesis advisor and thesis committee.

**Thesis**—The thesis consists of a public exhibition of work, a supporting thesis paper, and a formal defense before the thesis committee.

**Graduate Courses (Studio Emphasis):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 6103</td>
<td>The Art of Typography and Layout I</td>
<td>3</td>
</tr>
<tr>
<td>ART 6113</td>
<td>The Art of Typography and Layout II</td>
<td>3</td>
</tr>
<tr>
<td>ART 6403</td>
<td>Advertising Design I</td>
<td>3</td>
</tr>
<tr>
<td>ART 6413</td>
<td>Advertising Design II</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Hours</td>
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</tr>
<tr>
<td>ART 6523</td>
<td>Internship in Graphic Art Design (ART 3313, senior standing and consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>ART 6643</td>
<td>Advanced Studio – Graphic Design (consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>ART 6763</td>
<td>Sequential Art I.</td>
<td>3</td>
</tr>
<tr>
<td>ART 6813</td>
<td>Multimedia I.</td>
<td>3</td>
</tr>
<tr>
<td>ART 6823</td>
<td>Multimedia II (ART 4813/6813 and consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>ART 6833</td>
<td>Animation I.</td>
<td>3</td>
</tr>
<tr>
<td>ART 6843</td>
<td>Animation II (ART 4833/6833).</td>
<td>3</td>
</tr>
<tr>
<td>ART 6863</td>
<td>Advanced Computing Studio.</td>
<td>3</td>
</tr>
<tr>
<td>ART 6873</td>
<td>Digital Imaging I (ART 2103 and ART 2803 or consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>ART 8000</td>
<td>Research/Thesis.</td>
<td>1-6</td>
</tr>
<tr>
<td>ART 8013</td>
<td>Animation III (ART 6833 and ART 6843).</td>
<td>3</td>
</tr>
<tr>
<td>ART 8023</td>
<td>Computer Animation IV (ART 6833, ART 6843 and ART 8013).</td>
<td>3</td>
</tr>
<tr>
<td>ART 8033</td>
<td>Experimental Animation (ART 6873, ART 6763, ART 8043 or consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>ART 8073</td>
<td>Advanced Studio: Computer Art and Design (ART 6863).</td>
<td>3</td>
</tr>
<tr>
<td>ART 8103</td>
<td>Multimedia III (ART 6813 and ART 6823 or consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>ART 8123</td>
<td>Multimedia Installation and Performance (ART 8103 or consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>ART 8603</td>
<td>Advanced Figurative Studio.</td>
<td>3</td>
</tr>
<tr>
<td>ART 8990</td>
<td>Special Topics in Integrated Media.</td>
<td>3</td>
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<tr>
<td>ART 8990</td>
<td>Special Topics in Videography.</td>
<td>3</td>
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<tr>
<td>ART 8990</td>
<td>Special Topics in Art (TBA).</td>
<td>3</td>
</tr>
<tr>
<td>ART 6573</td>
<td>Critical Issues in Recent Art (ART 3603 or an equivalent course in 20th century art and consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>ART 6673</td>
<td>Advanced Art History.</td>
<td>3</td>
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<tr>
<td>ART 8043</td>
<td>Seminar in EV.</td>
<td>3</td>
</tr>
<tr>
<td>ART 8083</td>
<td>Theory of Visual Communications.</td>
<td>3</td>
</tr>
<tr>
<td>ART 6013</td>
<td>Advanced Painting (ART 2043).</td>
<td>3</td>
</tr>
<tr>
<td>ART 6133</td>
<td>Watercolor II (ART 3053).</td>
<td>3</td>
</tr>
<tr>
<td>ART 6203</td>
<td>Photography II (ART 3103).</td>
<td>3</td>
</tr>
<tr>
<td>ART 6223</td>
<td>Photography III (ART 3103 and ART 4203/6203).</td>
<td>3</td>
</tr>
<tr>
<td>ART 6343</td>
<td>Drawing IV (ART 2233 at both levels and consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>ART 6433</td>
<td>Color Photography II (ART 3423 and consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>ART 6443</td>
<td>Alternative Color (ART 3103, ART 3423 and consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>ART 6603</td>
<td>Advanced Studio - Drawing (consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>ART 6613</td>
<td>Advanced Studio – Painting (consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>ART 6623</td>
<td>Advanced Studio - Printmaking (consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>ART 6633</td>
<td>Advanced Studio - Sculpture (consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>ART 6653</td>
<td>Advanced Studio - Ceramics (consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>ART 6663</td>
<td>Advanced Studio - Photography (consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>ART 6693</td>
<td>Internship I Fine Art (consent of department head).</td>
<td>3</td>
</tr>
<tr>
<td>ART 6883</td>
<td>Graphic Design for the Internet (ART 3313, ART 3323, open only to Graphic Design Majors, or consent of instructor).</td>
<td>3</td>
</tr>
</tbody>
</table>
ART 7000  Directed Individual Study.  
(Hours and credits to be arranged)

ART 8163  Advanced Digital Imaging. 3 hours

ART 8990  Special Topics in Art. 1-9 hours

Completion Requirements: Second Year
Thesis Proposal and Committee Selection—
Upon approval or advisement of the graduate coordinator and thesis committee, the student will enter the fourth semester with the directive to develop a proposed thesis topic outline and schedule. Thereafter, yearly reviews of progress toward thesis completion will be conducted with the thesis committee.

The presentation is a one-hour review consisting of:
1. 15-20 minute presentation of work from the year’s course work, whether comprehensive or in summation;
2. 15-20 minute presentation of preliminary progress made toward thesis, presentation of updated production schedule and other materials (e.g., bibliography, storyboards, installation diagrams, test renders, content development, technical research summary) as required by committee; or
3. Committee questions

Components of the M.F.A. Thesis:
1. Presentation of concluding work and oral defense (committee, department head and graduate coordinator);
2. Written paper (15 pages in length [body] following graduate school guidelines), the form and content areas of the proposed project, and a schedule regarding apportioned accomplishment of goals during the final semesters of study;
3. CD-ROM, Video, and/or appropriate format as designated by committee; or
4. Public presentation (exhibition, installation).

NOTE: In addition to the copies required by the Library, the Department of Art requires two full copies of all thesis documents, both visual and written. Representative slides of stills taken from time-based work must accompany the thesis.

Final Review—The M.F.A. candidate is responsible for making arrangements for peer and committee review of their accomplishments. A public presentation of the thesis is required prior to the final committee review. The final defense meeting is restricted to committee members, the graduate coordinator, and department head.

Biochemistry
and Molecular Biology
College of Agriculture and Life Sciences

Dr. Vance Watson, Dean
Dr. John A. Boyle, Department Head
Dr. Din-Pow Ma, Graduate Coordinator
402 Dorman Hall
662-325-2640
dm1@ra.msstate.edu

The department offers graduate study leading to the Master of Science degree in Agricultural Life Sciences with a concentration in Biochemistry. The department also participates in an interdisciplinary program leading to the Doctor of Philosophy degree in Chemical Sciences.

Admission Criteria—Prerequisites for admission include a bachelor’s or master’s degree in a physical or life science with a strong background in chemistry and biochemistry. A minimum of 2.75 overall grade point average on a 4.00 scale is required. The GRE general test is required. It is recommended that students applying for the Ph.D. also take the GRE advanced test in Biochemistry, Cellular, and Molecular Biology or Chemistry. It is required that International students have a TOEFL score of 550 or better in order to be considered. Letters of recommendation will also be considered in the admissions decision.

Program of Study/Completion Requirements—
M.S.—The Master of Science degree requires a minimum of 24 hours of graduate course work including successful completion of BCH 6414, BCH 6804, BCH 8654, and a final oral examination. The student may select either a research thesis or a project option in his or her program of study. If a thesis is selected, the student must register for a minimum of six credit hours of research/thesis and complete a research project. If the project option is selected, the student must complete two additional graduate courses (six credit hours) in an area of interest and complete an independent research paper related to the area of interest by enrolling in three hours of directed individual study. The research paper will be the equivalent of a research literature review and will be reviewed by the student’s committee. All students are required to present one formal (full-length, graded) seminar and one informal seminar (one-half length, non-
The informal seminar will be presented in the second semester in residence. The formal seminar will be a presentation of the final research results or project of the student. Students are required to attend all departmental seminars.

Program of Study/Completion Requirements:

Ph.D.—The Ph.D. degree is primarily a research degree. However, a minimum of 30 to 40 hours of course work, and 30 hours of research beyond the B.S. degree are required. A student entering the program with a master’s degree will be required to take 30 to 40 hours past that degree. The courses shall come from the offerings of the department and from supporting programs. If the student desires a specific minor, 12 hours should be in that field. The selection of courses is left to the student in consultation with the major professor and graduate committee.

A student is required to take a core of General Biochemistry I, General Biochemistry II (or their equivalents), Protein Methods, Molecular Biology Methods, Molecular Biology or Molecular Genetics and Intermediary Metabolism. An entrance exam will be provided to the student wishing to bypass General Biochemistry I and General Biochemistry II. If a student has successfully completed any of these courses as undergraduates at Mississippi State, he or she need not repeat them. The student must have a 3.00 average or better in all core courses taken. The student will not be allowed to drop a core course.

The student is required to show technical proficiency in one skill area not directly or routinely related to his or her research area. This proficiency must be demonstrable by successful completion of a course taken at Mississippi State (including directed individual study courses) approved by the student’s graduate committee that is not part of the program of study. Such proficiencies could include (but are not limited to) statistics, computers, electron microscopy, plant transformation, tissue culture, production of monoclonal antibodies.

The student is required to present two formal (full-length, graded) seminars and one informal seminar (one-half length, non-graded). The informal seminar will be presented in the second semester in residence. The first formal seminar should be after the student has been in residence for 1.5 years. The final seminar will be a presentation of the final research results of the student. The student is required to attend all departmental seminars.

The student’s graduate committee will consist of a total of five members with at least three from the department. The student will submit a research proposal to the committee. No time limit is imposed, but it is suggested that the proposal be submitted within the first 1.5 years. The student will have yearly reviews with the graduate committee. The student is expected to produce publishable research.

The student must pass written and oral preliminary examinations dealing with his or her program of study. A student not passing the preliminary exams on a second attempt will be given the option of completing the research required for an M.S. (provided the course work is also adequate). The student must pass a final oral defense of the dissertation upon completion of the research program.

Provisional Admission—A student who has not fully met the requirements stipulated by the University and the appropriate department for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. Such students must have as their initial objective advancement to regular status. A provisional student must receive a 3.00 GPA on the first nine hours of graduate level courses on their programs of study taken at Mississippi State University in order to achieve regular status. Neither transfer credits nor unclassified graduate credits can fulfill this requirement. If a 3.00 is not attained, the provisional student may be dismissed from graduate study. While in the provisional status, a student is not eligible to hold a graduate assistantship.

Academic Performance—The Department of Biochemistry and Molecular Biology has the following standards for graduate students in both the M.S. and Ph.D. programs. The student is allowed only two Cs. Any third C or the first grade below C is grounds for dismissal.

For additional information, contact the Graduate Coordinator, Department of Biochemistry and Molecular Biology, Box 9650, Mississippi State, MS 39762 or dm1@ra.msstate.edu.

Graduate Courses—Course prerequisites are noted in parentheses.

BCH 6414 Protein Methods. 4 hours

BCH 6603-6613 General Biochemistry (CH 4523/6523 or consent of instructor). 3 hours each

BCH 6623 Biochemistry of Specialized Tissues (coregistration in BCH 4613/6613). 3 hours
Graduate study leading to the Master of Science and Doctor of Philosophy degrees is offered in Biological Sciences. Major areas of emphasis include molecular, developmental, cellular and organismal biology. An emphasis in biological sciences will be interdisciplinary, drawing from courses in and out of the department relating to a single unifying field, such as ecology or cell biology. Graduate research and teaching assistantships are available.

**Admission Criteria**—Requirements for entrance into the M.S. and Ph.D. programs in the Department of Biological Sciences are:

1. A GPA of 2.75 on a 4.00 system for all undergraduate work and a GPA of 3.00 for all course work in the biological sciences;
2. Three letters of recommendation from individuals familiar with the applicant's academic performance;
3. A composite quantitative and verbal GRE score;
4. A statement of professional interests and goals from the applicant.

**Program of Study and Completion Requirements**—A minimum of 30 hours of graduate study, including 24 hours of course work and six hours of research/thesis, is required for the Master of Science degree in Biological Sciences. Required courses include BIO 8011-21, BIO 8013, and ST 8114. In addition, a mandatory exit seminar, a final comprehensive examination, and a thesis are required.

Course requirements for the Doctor of Philosophy are determined by the student's advisory committee. Required courses are the same as for the master's degree and an exit seminar is required. A comprehensive examination and dissertation are also required. Mandatory academic performance is the same as specified by graduate school policy.
For additional information, write to the Graduate Coordinator, Department of Biological Sciences, P. O. Box GY, Mississippi State, MS 39762.

**Biological Sciences**—Course prerequisites are noted in parentheses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BIO 6103</td>
<td>Experimental Genetics (BIO 3103 or consent of instructor). 3 hours</td>
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<tr>
<td>BIO 6113</td>
<td>Evolutionary Biology. 3 hours</td>
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<tr>
<td>BIO 6114</td>
<td>Cellular Physiology (7 hours of zoology and two semesters of organic chemistry). 4 hours</td>
<td></td>
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<tr>
<td>BIO 6133</td>
<td>Human Genetics (BIO 1504 or consent of instructor). 3 hours</td>
<td></td>
</tr>
<tr>
<td>BIO 6163</td>
<td>Bryology (BIO 1203 and BIO 1213). 3 hours</td>
<td></td>
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<tr>
<td>BIO 6203</td>
<td>Taxonomy of Spermatophytes (BIO 1203 and BIO 1213). 3 hours</td>
<td></td>
</tr>
<tr>
<td>BIO 6204</td>
<td>Plant Anatomy (BIO 1203 and BIO 1213). 4 hours</td>
<td></td>
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<tr>
<td>BIO 6213</td>
<td>Plant Ecology (BIO 4203). 3 hours</td>
<td></td>
</tr>
<tr>
<td>BIO 6214</td>
<td>General Plant Physiology (BIO 1203 and CH 1213). 4 hours</td>
<td></td>
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<tr>
<td>BIO 6223</td>
<td>Freshwater Algae. 3 hours</td>
<td></td>
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<tr>
<td>BIO 6303</td>
<td>Bioinstrumentation (BIO 4304/6304). 3 hours</td>
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<tr>
<td>BIO 6304</td>
<td>Quantitative Methods. 4 hours</td>
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<tr>
<td>BIO 6314</td>
<td>Quantitative Methods II (BIO 4304/6304). 4 hours</td>
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<tr>
<td>BIO 6324</td>
<td>Soil Microbiology (BIO 3304). 4 hours</td>
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<tr>
<td>BIO 6403</td>
<td>Anaerobic Microbiology (BIO 3304). 3 hours</td>
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<td>BIO 6404</td>
<td>Environmental Microbiology (BIO 3304). 4 hours</td>
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<tr>
<td>BIO 6405</td>
<td>Pathogenic Microbiology (BIO 3304). 5 hours</td>
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<td>BIO 6413</td>
<td>Immunology (BIO 3304 and CH 4513). 3 hours</td>
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<td>BIO 6414</td>
<td>Microbiology of Foods (BIO 3304). 4 hours</td>
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<tr>
<td>BIO 6443</td>
<td>Bacterial Genetics (BCH 4603, BIO 3304 or consent of instructor). 3 hours</td>
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<tr>
<td>BIO 6453</td>
<td>Petroleum Microbiology (BIO 3304). 3 hours</td>
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<tr>
<td>BIO 6463</td>
<td>Bacterial Physiology (BIO 3404 and BCH 4603). 3 hours</td>
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<tr>
<td>BIO 6502</td>
<td>Toxicology (8 hours Biological Sciences and 8 hours chemistry [cell biology/physiology and biochemistry recommended]. 2 hours</td>
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<tr>
<td>BIO 6503</td>
<td>Vertebrate Histology (BIO 1504). 3 hours</td>
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<tr>
<td>BIO 6504</td>
<td>Comparative Vertebrate Embryology (BIO 1504). 4 hours</td>
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<tr>
<td>BIO 6513</td>
<td>Ichthyology (BIO 1504 or equivalent). 3 hours</td>
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<tr>
<td>BIO 6514</td>
<td>Animal Physiology (Ten hours of zoology and organic chemistry). 4 hours</td>
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<tr>
<td>BIO 6523</td>
<td>Mammalogy (BIO 3524 or equivalent). 3 hours</td>
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<tr>
<td>BIO 6533</td>
<td>Animal Behavior. 3 hours</td>
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<tr>
<td>BIO 6543</td>
<td>Ornithology (8 hours of zoology). 3 hours</td>
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<tr>
<td>BIO 6990</td>
<td>Special Topics in Biology. 1-9 hours</td>
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<tr>
<td>BIO 8000</td>
<td>Research/Thesis. 6 hours</td>
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<tr>
<td>BIO 8011</td>
<td>Seminar. 1 hour</td>
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<tr>
<td>BIO 8013</td>
<td>Scientific Writing for Biological Scientists. 3 hours</td>
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<tr>
<td>BIO 8021</td>
<td>Senior Seminar. 1 hour</td>
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<tr>
<td>BIO 8022</td>
<td>Practical Research Practices. 2 hours</td>
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<tr>
<td>BIO 8044</td>
<td>Transmission Electron Microscopy [Same as ENT 8144]. 4 hours</td>
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<tr>
<td>BIO 8103</td>
<td>Advanced Ecology (BIO 3104). 3 hours</td>
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<tr>
<td>BIO 8104</td>
<td>Experimental Plant Molecular Biology. 4 hours</td>
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<tr>
<td>BIO 8113</td>
<td>Biogeography. 3 hours</td>
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<tr>
<td>Course Code</td>
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<tr>
<td>BIO 8123</td>
<td>Physiological Ecology</td>
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<tr>
<td>BIO 8133</td>
<td>Advanced Cell Biology (BIO 4114/6114 or equivalent)</td>
<td>3</td>
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<tr>
<td>BIO 8203</td>
<td>Embryology of Seed Plants (BIO 1203 and BIO 1213)</td>
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<tr>
<td>BIO 8204</td>
<td>Phycology (BIO 1203 and BIO 1213)</td>
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<tr>
<td>BIO 8213</td>
<td>Plant Water and Mineral Relations (BIO 4214)</td>
<td>3</td>
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<tr>
<td>BIO 8214</td>
<td>Advanced Taxonomy (BIO 4203)</td>
<td>4</td>
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<tr>
<td>BIO 8223</td>
<td>Plant Metabolism (BIO 4214 and organic chemistry)</td>
<td>3</td>
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<tr>
<td>BIO 8315</td>
<td>Immunological Techniques</td>
<td>5</td>
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<tr>
<td>BIO 8403</td>
<td>Advanced Microbial Physiology (BIO 4463)</td>
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<td>BIO 8405</td>
<td>Advanced Immunology</td>
<td>5</td>
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<tr>
<td>BIO 8453</td>
<td>Advanced Virology</td>
<td>3</td>
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<tr>
<td>BIO 8463</td>
<td>Advanced Bacterial Genetics (BCH 4713 or BIO 4443, or consent of instructor)</td>
<td>3</td>
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<tr>
<td>BIO 8990</td>
<td>Special Topics in Biology</td>
<td>1-9</td>
</tr>
<tr>
<td>BIO 9000</td>
<td>Research/Dissertation</td>
<td>20</td>
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</table>

**Off-Campus Courses—Offered During the Summer at Gulf Coast Research Laboratory**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BIO 6336</td>
<td>Marine Invertebrate Zoology II (16 hours of zoology)</td>
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<tr>
<td></td>
<td>(Same as GCRL ZO 361B)</td>
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<tr>
<td>BIO 6345</td>
<td>Marine Ecology (16 hours of biology including general botany and invertebrate zoology)</td>
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<td></td>
<td>(Same as GCRL ZO 452)</td>
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<tr>
<td>BIO 6526</td>
<td>Marine Aquaculture (General zoology, vertebrate and invertebrate zoology, or consent of instructor)</td>
<td>6</td>
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<tr>
<td></td>
<td>(Same as GCRL ZO 464)</td>
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<tr>
<td>BIO 7000</td>
<td>Directed Individual Study</td>
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<tr>
<td></td>
<td>(Same as GCRL ZO 561)</td>
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<tr>
<td>BIO 8000</td>
<td>Research/Thesis (Same as GCRL ZO 561)</td>
<td></td>
</tr>
</tbody>
</table>

**BIO 9000** Research/Dissertation [Same as GCRL ZO 561]. Hours of credit to be arranged

*Fees, offerings, and dates are announced annually in the bulletin of the Gulf Coast Research Laboratory. All students planning to take these courses for zoology credit at Mississippi State University must be registered at the University; there will be no fee for such registration. For more information write to the Registrar, GCRL, P. O. Box 7000, Ocean Springs, MS 39564.

**Contingent Admission**—In some cases, a student can be accepted pending a particular condition, such as completion of a B.S. or M.S. degree or other conditions as determined by the faculty and/or the Office of Graduate Studies. A student accepted on a contingent basis may receive an assistantship.

**Provisional Admission**—In rare cases, if a student does not meet the minimum admission requirements, an individual faculty member may sponsor the student, if the student’s record is close to the minimum requirements and he/she has exceptional academic promise. In such a case, the student will be admitted provisionally as recommended by the graduate committee. The provisional student must earn at least a 3.00 GPA while carrying a full load (six hours summer/nine hours fall or spring, exclusive of special problems and thesis research hours) of graduate level coursework during the first semester (if the student is a full-time student). Transfer hours or unclassified graduate hours will not fulfill this requirement. The graduate committee will review the student’s progress toward the end of his/her first semester and decide whether regular admission or dismissal should be recommended; this review will also involve the student’s advisory committee, if it has been formed. A student will not be retained on provisional status for more than two semesters.

**Academic Performance**—The graduate student must maintain an average of B (3.00) or higher for all courses after admission to the program. Only grades of C or higher will be accepted for credit. One course of the approved graduate program can be repeated; the two grades will be averaged. All grades earned will be employed in overall GPA calculations. Failure to demonstrate satisfactory progress toward completion of degree requirements, including earning two or more Cs or earning a grade of D or F, may be considered by the graduate committee in consultation with the student’s advisory committee to be sufficient cause for dismissal from the graduate program. If the student’s GPA falls below a 3.00, he/she will have a two-
semester grace period in which to retain a teaching assistantship. By the end of this grace period, the student must have achieved an overall 3.00 GPA. This 3.00 GPA must be maintained for the duration of the graduate program, or the student will be terminated from the graduate program. The student may retain a teaching assistantship during this second probationary semester also. During the probationary semester, the student must be enrolled in approved program requirements or if the program has not yet been approved in courses appropriate for the program.

Biomedical Engineering
An Interdisciplinary Curriculum
James Worth Bagley College of Engineering

Dr. Kirk Schultz, Dean
Dr. Roger L. King, Associate Dean for Research and Graduate Studies

Department of Agricultural and Biological Engineering
Dr. William Batchelor, Department Head
Dr. Steven Elder, Graduate Coordinator
100 Ag and Bio Engineering Bldg
662-325-3282
selder@abe.msstate.edu

The interdisciplinary Biomedical Engineering program is administered through Agricultural and Biological Engineering for the College of Engineering. Programs of study and research leading to both the Master of Science and the Doctor of Philosophy degrees in Biomedical Engineering are available. Biomedical Engineering is the engineering discipline that applies engineering principles to study and find solutions for problems associated with the human body, medicine, and the health care field. At MSU, students can concentrate on research in biomaterials and biomechanics, tissue engineering, ergonomics/human factors, biosimulation/modeling, and other areas.

Admission Criteria—Regular admission into the M.S. or Ph.D. programs requires that the student meet the admission requirements of the Office of Graduate Studies, have an undergraduate engineering or approved computer science (or remedial engineering course work), submit GRE scores, submit TOEFL scores if applicable, receive a positive recommendation by the coordinating committee of the biomedical engineering graduate committee, and be accepted as a student by a member of the biomedical engineering graduate faculty. The student must have a 3.00 grade point average or higher and, if applicable, a TOEFL score of 600 or greater. Special arrangements for early pre-selection/admission of undergraduate students will be made for engineering students from Jackson State University and science and math students from The Mississippi School of Math and Science. A student entering the Ph.D. program should have a M.S. in an engineering discipline. Special consideration may be given to exceptional students with a B.S. degree in engineering who may wish to bypass the M.S. in completing the requirements for the doctoral degree.

Program of Study/Completion Requirements—The M.S. degree requires 24 semester hours credit above the baccalaureate degree, at least half of which must be from 8000 level courses or above. In addition, six or more research/thesis credit hours are required. As part of the 24 course work hours students must take: ABE 8501, ABE 8801, BIO 6514 or BIO 6114, and ST 8114. An oral comprehensive examination, and a thesis are required. The Ph.D. degree requires that the student pass a preliminary exam, a dissertation, a minimum of 48 course work hours beyond the B.S., and 20-32 research hours (for a total of 80 hours). In addition to the required course list for M.S. students, a Ph.D. student must also take a graduate-level mathematics course, or approved substitute, such as an additional graduate level statistics course.

The graduate committee for each M.S. and Ph.D. student will be composed of a minimum of four and five faculty members, respectively. Faculty members on the graduate Biomedical Engineering faculty hold appoints in departments in the College of Engineering at MSU, the Department of Chemistry at MSU, the Department of Animal and Dairy Sciences at MSU, the College of Veterinary Medicine (CVM) at MSU, and in departments of the University of Mississippi Medical Center (UMC) in Jackson, MS. The following requirements for a M.S. graduate committee will apply: chair must be a MSU engineering faculty member, one member must be a clinician (CVM faculty, UMC faculty, or practicing clinician), two or more members must be engineers, and two or more members must be MSU faculty members. The following requirements for a Ph.D. graduate committee will apply: chair must be an MSU engineering faculty member, one member must be a clinician (CVM faculty, UMC faculty, or practicing clinician), three or more members must be engineers, and three
or more members must be MSU faculty members.

**Provisional Admission**—If an applicant does not fully meet the admission requirements of the program, it may be possible for that student to be provisionally admitted. If provisionally admitted, the student must attain a 3.00 GPA on the first nine hours of graduate courses taken at Mississippi State University. Transfer hours or unclassified graduate hours cannot be used. If a 3.00 GPA is not attained, the student may be dismissed from the graduate program.

If a student applying to the M.S. program does not have an undergraduate degree in engineering or an approved C.S. degree, the student will be required to complete approximately 45-48 hours of prerequisite course work in mathematics, the sciences, and engineering. The student will be granted contingent admission until the course requirement has been satisfied. If a student applying to the Ph.D. program does not have a B.S. or M.S. in engineering or C.S., the same set of 45-48 hours of courses will be required before the student is fully admitted.

**Academic Performance**—Unsatisfactory performance in the graduate program in Biomedical Engineering is defined as any of the following: failure to maintain a B average in attempted graduate courses after admission to the program; a grade of U, D, or F in any one course; more than two grades below a B; failure of the preliminary exam (Ph.D. students only); failure of the research defense; unsatisfactory evaluation of a thesis or dissertation; or failure of a required component of the program of study. Any one of these or a combination of these will constitute the basis for review for possible dismissal. The graduate coordinator will review the record along with the student’s graduate committee and take a final course of action which will be recommendation for immediate dismissal or the establishment of a probationary period in which corrective action must take place. Appeal of dismissal can be made by submitting a written appeal statement to the department head. If the dismissal is upheld by the department head upon the student’s appeal, the student can then submit a written appeal to the dean of the College of Engineering.

For further information about the program, contact the Biomedical Engineering Graduate Program Coordinating Committee, Department of Agricultural and Biological Engineering, Box 9632, Mississippi State, MS 39762 or send an e-mail to abe-head@abe.msstate.edu. Information can also be found on the Ag and Bio Engineering website at http://www.abe.msstate.edu.

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**Selected Courses for the Biomedical Engineering Graduate Program:**

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<th>Course Code</th>
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<tbody>
<tr>
<td>ABE 6312</td>
<td>Biosystem Environments II. 2 hours</td>
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<tr>
<td>ABE 6423</td>
<td>Bioinstrumentation II. 3 hours</td>
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<tr>
<td>ABE 6513</td>
<td>Dynamics of Aging. 3 hours</td>
</tr>
<tr>
<td>ABE 6523</td>
<td>Biomedical Materials. 3 hours</td>
</tr>
<tr>
<td>ABE 6624</td>
<td>Experimental Methods in Materials Research. 4 hours</td>
</tr>
<tr>
<td>ABE 6613</td>
<td>Biomechanics. 3 hours</td>
</tr>
<tr>
<td>ABE 6633</td>
<td>Rehabilitation Engineering. 3 hours</td>
</tr>
<tr>
<td>ABE 6803</td>
<td>Biosystems Simulation. 3 hours</td>
</tr>
<tr>
<td>ABE 8314</td>
<td>Corrosion of Biomedical Implants. 4 hours</td>
</tr>
<tr>
<td>ABE 8324</td>
<td>Failure Analysis of Metallic Medical Implants. 4 hours</td>
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<tr>
<td>ABE 8501</td>
<td>Journal Reviews in Biomedical Engineering a,b. 1 hour</td>
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<tr>
<td>ABE 8801</td>
<td>Clinical Experience for Biomedical Engineering a,b. 1 hour</td>
</tr>
<tr>
<td>ABE 8911</td>
<td>Agricultural and Biological Engineering Seminar. 1 hour</td>
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<tr>
<td>BIO 6514</td>
<td>Animal Physiology a, b, c. 4 hours</td>
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<tr>
<td>BIO 6114</td>
<td>Cellular Physiology. 4 hours</td>
</tr>
<tr>
<td>BIO 8104</td>
<td>Experimental Molecular Biology. 4 hours</td>
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<td>BIO 8133</td>
<td>Advanced Cell Biology. 3 hours</td>
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<tr>
<td>CHE 6323</td>
<td>High Polymer Theory and Practice. 3 hours</td>
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<td>CME 8113</td>
<td>Computational Geometry. 3 hours</td>
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<td>CPE 8813</td>
<td>Digital Image Processing. 3 hours</td>
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<td>CSE 6633</td>
<td>Artificial Intelligence. 3 hours</td>
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<tr>
<td>CSE 8663</td>
<td>Neural Computing. 3 hours</td>
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<td>ECE 6723</td>
<td>Microprocessors. 3 hours</td>
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<tr>
<td>EM 6213</td>
<td>Advanced Mechanics of Materials. 3 hours</td>
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<tr>
<td>EPP 8223</td>
<td>Scanning Electron Microscopy. 3 hours</td>
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</table>
IE 6113  Human Factors Engineering. 3 hours
IE 6133  Ergonomics. 3 hours
MA 8203  Foundations of Applied Math I. 3 hours
MA 8213  Foundations of Applied Math II. 3 hours
ME 8243  Finite Elements in Mechanical Engineering. 3 hours
ST 8814  Design and Analysis of Experiments 4 hours

a  all M.S. students must take these courses
b  all Ph.D. students must take these courses plus one graduate-level mathematics course or approved
c  or BIO 6114 Cellular Physiology

Botany
(See Biological Sciences)

Business Administration
College of Business and Industry
Dr. Sara Freedman, Dean
Dr. Barbara A. Spencer, Department Head and Graduate Coordinator
247 McCool Hall
662-325-1891
gsb@cobilan.msstate.edu

Graduate study is offered in the College of Business and Industry leading to the Master of Business Administration (M.B.A.), the Master of Science in Business Administration (M.S.B.A.) and the Ph.D. in Business Administration. Specialized programs in Accounting, Taxation, Information Systems, Finance, and Economics are described under those departmental headings.

Master of Business Administration
Program Objectives—The mission of the M.B.A. program at Mississippi State University is
1. to expand the student’s knowledge of the business world;
2. to improve the student’s business skills;
3. to help the student integrate business knowledge; and
4. to improve the student’s ability to apply integrative knowledge and personal skills to real business problems.

Admission—An applicant for the M.B.A. program should hold a bachelor’s degree from a fully recognized four-year institution of higher learning that enjoys unconditional accreditation by appropriate regional accrediting agencies. All general requirements stated in this publication must be met.

An applicant for the M.B.A. program must take the Graduate Management Admission Test (GMAT). Admission to the M.B.A. program requires a GPA of 3.00 or above out of 4.00 points over the last 60 semester hours of baccalaureate work and a GMAT score of 510 or above or a combined score of 1110 using the formula \((200 \times \text{GPA}) + \text{GMAT}\). When a student is deficient in either of the criteria cited, the student’s application, nevertheless, may be considered for admission based on the strength of other materials contained in the student’s application. However, reasonable minimum levels of performance must be achieved in both the applicant’s GPA and GMAT scores.

International Applicants—An international applicant not holding a degree from a U.S. institution must submit a Test of English as a Foreign Language (TOEFL) report from a test administered within the last two years of 575 or higher with their applications in order to be considered for regular admission.

Program of Study—Course work for the M.B.A. program consists of the foundation, core, and electives. At a minimum the candidate for the M.B.A. must complete 30 hours of course work beyond the foundation level.

M.B.A. Foundation—The foundation portion of the program consists of 19 hours that may be satisfied in part or total by prior undergraduate or graduate preparation in business. In the absence of prior preparation, students are required to complete the foundation composed of the following courses.

Foundation Course  Replaces
Survey of Accounting
Principles of Financial Accounting and Principles of Managerial Accounting
Statistical Analysis for Business Decision Making  Business Statistical Methods I & II
Survey of Management Principles of Management and Production Management
Survey of Economics Principles of Macroeconomics and Principles of Microeconomics
Survey of Finance Financial Management
Survey of Marketing Principles of Marketing

Any basic computer course 3 hours

**M.B.A. Core**—All candidates for the M.B.A. must complete a core of 27 hours. The core is composed of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ACC 8112</td>
<td>Financial Statement &amp; Management Accounting for Business Decision Making</td>
<td>2 hours</td>
</tr>
<tr>
<td>BIS 8112</td>
<td>Management of Information Technology and Systems</td>
<td>2 hours</td>
</tr>
<tr>
<td>BIS 8122</td>
<td>Multimedia Presentation &amp; Communication</td>
<td>2 hours</td>
</tr>
<tr>
<td>BL 8112</td>
<td>Law, Business Ethics, &amp; Dispute Resolution</td>
<td>2 hours</td>
</tr>
<tr>
<td>BQA 8112</td>
<td>Business Case Analysis Using Statistics</td>
<td>2 hours</td>
</tr>
<tr>
<td>EC 8103</td>
<td>Economics for Managers</td>
<td>3 hours</td>
</tr>
<tr>
<td>FIN 8112</td>
<td>Capital Acquisition &amp; Allocation</td>
<td>2 hours</td>
</tr>
<tr>
<td>FIN 8122</td>
<td>Corporate Liquidity Analysis</td>
<td>2 hours</td>
</tr>
<tr>
<td>MKT 8112</td>
<td>Marketing Management</td>
<td>2 hours</td>
</tr>
<tr>
<td>MKT 8132</td>
<td>Business Research</td>
<td>2 hours</td>
</tr>
<tr>
<td>MGT 8111</td>
<td>Human Resource Issues</td>
<td>1 hour</td>
</tr>
<tr>
<td>MGT 8112</td>
<td>Leadership Skills for Managerial Behavior</td>
<td>2 hours</td>
</tr>
<tr>
<td>MGT 8121</td>
<td>Strategic Management</td>
<td>1 hour</td>
</tr>
<tr>
<td>MGT 8122</td>
<td>Business Consulting Project</td>
<td>2 hours</td>
</tr>
</tbody>
</table>

**Electives**—The remaining three hours are selected with the advice and consent of the candidate’s advisor.

**Minor**—A minor may be obtained by taking six additional hours of electives in coordination with the three-hour elective for a total of nine hours. The courses must be elected with the advice and consent of the candidate’s advisor.

**Final/Comprehensive Requirement**—The course MGT 8122 (Business Consulting Project) is the capstone course for the M.B.A. program and constitutes the M.B.A. comprehensive examination. A grade of B or better in this course is required for passage of the M.B.A. comprehensive examination.

**Academic Performance**—A grade of C or better is required on all undergraduate prerequisite courses. A student in any graduate degree program in the College of Business and Industry may not continue in the program with grades below B in more than six hours of core graduate course work, regardless of the overall average. Thus, any program is terminated automatically when a seventh credit hour below B is recorded on core graduate course work. In addition, the normal MSU requirements for satisfactory progress in a graduate program will be applied.

**Provisional Admission**—Following University guidelines, a student admitted provisionally to this program must receive a 3.00 GPA on the first nine hours of graduate level courses on the program of study taken at MSU (transfer credits and unclassified graduate credits do not apply). If the 3.00 is not attained, the provisional student may be dismissed from graduate study.

**Project Management Concentration**—The project management concentration in the M.B.A. program is an interdisciplinary program between the College of Business and Industry and the College of Engineering consisting of 32 hours. Students choosing this major will take the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IE 6553</td>
<td>Project Management</td>
<td>3 hours</td>
</tr>
<tr>
<td>BIS 8112</td>
<td>Management of Information Technology and Systems</td>
<td>2 hours</td>
</tr>
<tr>
<td>ACC 8112</td>
<td>Financial Statement and Management Accounting Report Analysis for Business Decision Making</td>
<td>2 hours</td>
</tr>
<tr>
<td>BQA 8112</td>
<td>Business Case Analysis Using Statistics</td>
<td>2 hours</td>
</tr>
<tr>
<td>MGT 8111</td>
<td>Human Resource Issues</td>
<td>1 hour</td>
</tr>
<tr>
<td>IE 6573</td>
<td>Process Improvement Engineering</td>
<td>3 hours</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Hours</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>MKT 8112</td>
<td>Marketing Management</td>
<td>2</td>
</tr>
<tr>
<td>MGT 8112</td>
<td>Leadership Skills for Managerial Behavior</td>
<td>2</td>
</tr>
<tr>
<td>IE 8583</td>
<td>Enterprise Systems Engineering</td>
<td>3</td>
</tr>
<tr>
<td>BL 8112</td>
<td>Law, Business Ethics, and Dispute Resolution</td>
<td>2</td>
</tr>
<tr>
<td>MKT 8122</td>
<td>Management of Delivery Systems</td>
<td>2</td>
</tr>
<tr>
<td>EC 8103</td>
<td>Economics for Managers</td>
<td>3</td>
</tr>
<tr>
<td>MGT 8132</td>
<td>Project Management Field Study</td>
<td>2</td>
</tr>
<tr>
<td>FIN 8313</td>
<td>Financial Management of Projects</td>
<td>3</td>
</tr>
</tbody>
</table>

**Master of Science in Business Administration (M.S.B.A.)**—See Finance and Economics

**Doctor of Philosophy in Business Administration**—The College of Business and Industry offers a full-time degree program leading to the Doctor of Philosophy in Business Administration (Ph.D.); under the Business Administration major, the concentrations available are Accounting, Business Information Systems, Economics, Finance, Management, and Marketing.

**Admission Criteria**—The applicant for admission to the Ph.D. program in business must hold a bachelor’s degree from a recognized institution of higher learning and have demonstrated high promise of benefit from graduate study. All general requirements stated in this publication must be met. The doctoral applicant must also present a GMAT score from a test administered within the last five years of 550 or above; an undergraduate GPA of 3.00/4.00 or above, both cumulative and over the last 60 hours of undergraduate work; and a GPA of 3.25/4.00 on all prior graduate work. Consideration will be given to an applicant who is deficient in not more than one of the quantitative specifications cited above.

An applicant whose quantitative credentials meet the stated criteria above may still be denied admission. Included in the qualitative consideration are such factors as the quality of previous academic studies, the meshing of the purpose of study and the opportunities in the proposed field of study, prior professional and employment activities, and a recommendation of the faculty in the proposed field of study, including the availability of faculty support for research. Enrollment in the Ph.D. program is limited to the number of openings available for each academic year.

An international applicant not holding a prior degree from a U.S. institution must submit a TOEFL report of 575 or higher with the application. Such application will not be considered without this indicator of English proficiency.

**Application Deadlines**—The student is admitted to the Ph.D. program only for the fall semester of each year. In order to receive full consideration for both admission and assistantship, complete applications must be received by the Office of Graduate Studies in Business by **January 15**. The following deadlines apply separately to applications for admission and graduate assistantship.

1. **Admission**—The primary decision date for admission, fall only, is the first of March. Since admission decisions are often competitively based for a limited number of openings, applicants are strongly encouraged to have all application and supporting materials in the Office of Graduate Studies in Business by January 15. Completed applications received after this date will continue to be screened until the end of April for fall admission. Applications received from the Office of Graduate Studies after April 30 will be considered for admission only for fall of the following year. It is the applicant’s responsibility to ensure that all supporting materials are received.

   The applicant should be aware that the transmittal of GMAT scores from the Educational Testing Service generally takes about six weeks and occasionally longer if irregularities occur.

2. **Assistantship**—While application for assistantship may be submitted at any time for vacancies which may arise, regular appointments are for the academic year (i.e., fall and spring semesters) and begin with the fall semester. To receive full consideration for a fall appointment, the Application for Graduate Assistantship in Business must be received by the Office of Graduate Studies in Business by January 15 of that year. Since only applicants who have been admitted to a degree program can be considered for graduate assistantship appointments, all admission application materials must also be received by February 15 for those desiring full consideration for a graduate assistantship offer.
3. Prerequisite Courses—The following are undergraduate courses (prerequisite courses) that must be completed either in the student’s undergraduate program or after enrollment in the Ph.D. program at Mississippi State University. These courses are not considered as part of the student’s formal graduate program of study and do not apply toward fulfillment of minimum credit hour requirements. A grade of C or better must be received in all prerequisite courses.

<table>
<thead>
<tr>
<th>Prerequisite Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>Business Statistics</td>
<td>6</td>
</tr>
<tr>
<td>Calculus</td>
<td>3</td>
</tr>
<tr>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Accounting</td>
<td>6</td>
</tr>
<tr>
<td>Principles of Economics</td>
<td>6</td>
</tr>
<tr>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Production Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Graduate Committee—Each student’s course of study and research is directed by a committee of graduate faculty called a graduate committee. A graduate committee must contain at least five members, all of whom must be members of the graduate faculty.

The graduate committee that works with the student through the course work stage of the program is the graduate program committee. When the student completes all course work and requirements thereof, the graduate program committee is dissolved and the graduate committee is reformulated as the graduate dissertation committee.

Program Committee—The initial graduate committee is the student’s program committee. The committee is composed of: the chairman, who must be a Level I member of the graduate faculty and from the major field; at least two other members from the major field of study; one member from the support area or minor field; and one member from the College of Business and Industry. This graduate committee is charged with specifying the courses that will constitute the student’s program of graduate study and administering the comprehensive examination. The graduate program committee is dissolved when the student passes the comprehensive examination.

Dissertation Committee—The graduate committee formed following a successful comprehensive examination is the student’s dissertation committee. The base requirements in constituting the committee are as follows: all members must be on the graduate faculty; three members, one of whom is the chairman and must be a Level I member of the graduate faculty, are from the major; one member from the support area or minor; and the remaining members from areas germane to the dissertation. One member of the committee, who may or may not be the chairman, is designated as the dissertation director. This committee is charged with approval of the dissertation topic proposal and administering and grading of the final defense of the dissertation.

a. Dissertation Sub-Committee—The sub-committee is composed of the dissertation director and two other members from the graduate dissertation committee. While all members of the dissertation committee should be viewed as resources available to the student, the sub-committee is the group that will work actively with the student throughout the dissertation process. The members of the dissertation sub-committee are referred to as active members and for this reason the sub-committee is often referred to as the active committee.

b. Dissertation Readers—Members of the graduate dissertation committee who are not part of the dissertation sub-committee are referred to as readers.

Program of Graduate Study—The doctoral degree is awarded based on the demonstration of mature scholarship and ability to conduct meaningful and independent research. The degree is not granted as a result of taking a given set of courses or earning a given number of credit hours. While formal course work is important, the specific courses and number of hours needed will vary for different students. Thus, there is not a total number of courses or hours that will satisfy the degree requirements uniformly for all students. The course work required for each student is based on: the student’s ability to demonstrate to the graduate faculty a thorough grasp of the fields selected; the student’s particular interests with regard to teaching and research; and the student’s ability to conduct meaningful and independent research. A minimum of 36 credit hours must be taken in the student’s program at Mississippi State University.

The proposed program of graduate study is specified by the student’s graduate program committee in consultation with the student. During the first semester of enrollment, a proposed program of graduate study, approved by the graduate program committee, is to be submitted to the Office of Graduate Studies in Business for approval by the director of Graduate
Studies in Business. A copy of the fully approved program of graduate study will be provided to the student and each individual whose signature appears on it. The student's signature is required on the program of study. The program at a minimum consists of a designated major field and a support area or minor field from within the College of Business and Industry, a research and teaching tools component, and dissertation research.

Proposed changes in an approved program of graduate study must be approved in the same manner as the original program.

Course Work Requirements—Following are the minimum course work requirements beyond the baccalaureate stipulated by the graduate faculty in the College of Business and Industry for the Ph.D.

✓ Major Minimum Requirement: 24 Hours—No more than six of these hours may be taken outside of the College of Business and Industry.

✓ Support Area Minimum Requirement: 9 Hours—With the approval of the program committee and the director of Graduate Studies in Business, the student selects at least nine hours of coursework to support his or her study of the major field. The courses can be chosen from one or several disciplines; hence no examination will be given. No more than six of these hours may be taken outside the College of Business and Industry.

OR

✓ Optional Minor: 12 Hours—With the approval of the program committee and the director of Graduate Studies in Business, a student who prefers to do so may substitute a minor field for the support area. A minor in a doctoral program must consist of at least twelve hours of graduate coursework in one discipline within the College of Business and Industry. A written examination will also be required.

✓ Research and Teaching Tools: 18 Hours—The student selects 18 hours of research methods, statistics, and teaching methods courses. Six of these hours are specified as BQA 8443 and BQA 9533. Three of these hours are specified as a graduate level instructional methods course. The remaining required nine hours are selected by the student’s programming committee with the approval of the director of Graduate Studies in Business. None of the courses in this area may be counted toward the course requirements in the major or support area.

A minimum of 51 hours of course work excluding dissertation hours is required beyond the baccalaureate degree for all majors. Should a student choose to earn a minor in lieu of or in addition to the support area, this will increase this requirement by three to 12 hours per minor depending on the additional field selected.

Dissertation Research Requirements—The student is required to complete a minimum of 20 credit hours of dissertation research in the major field. All of these must be taken in the student’s program at Mississippi State University. All students who have completed course work and/or who have been admitted into degree candidacy must be continuously registered during at least two academic terms per year.

Doctoral Examinations/Completion Requirements—The following written and oral examinations are required of all Ph.D. students.

1. Quantitative Area Qualifying Examination—The Qualifying Examination in the Quantitative Area is a three-hour written examination covering the subject matter of BQA 8443 and BQA 9533. The examination is offered twice a year by the graduate faculty in Quantitative Analysis. The Office of Graduate Studies maintains the schedule of examination dates in Business. The student must be enrolled during the semester in which the examination is administered. The student must register for the examination with the Office of Graduate Studies in Business at least 30 days prior to the scheduled date of the examination. The student must sit for the qualifying examination in the quantitative area by the end of the third regular semester of study. Two failures on the qualifying examination result in automatic termination of the student's program.

2. Preliminary Examinations—Preliminary examinations are written examinations required in the major and each minor field. For each field in the College of Business and Industry, preliminary examinations are offered twice a year by the graduate faculty of the respective field. The Graduate Studies in Business office maintains the schedule of examination dates. The student must register for the examination with the Office of Graduate Studies in Business at least 30 days prior to the scheduled date of the examination.
The student may sit for a preliminary examination after completing 18 hours of graduate course work at Mississippi State University and completion of all required course work in the field of the examination. An academic area may stipulate additional requirements to sit for the major preliminary examination in that area. All preliminary examinations must be taken within 42 months after beginning course work if the appropriate course work is available. The student must be enrolled during the semester the examination is administered.

Three failures on a preliminary examination in a given field result in automatic termination of the student’s program.

a) Major Field Preliminary Examination—An eight-hour written examination is required in the major field.

b) Minor Field Preliminary Examination(s)—A four-hour written examination is required in each minor field.

3. Comprehensive Examination—The comprehensive examination is an oral examination over the student’s entire program of course work. Following completion of all course work required by the student’s program, passage of the qualifying examination, and passage of all preliminary examinations, the comprehensive examination may be scheduled. The comprehensive examination must be scheduled within the first year of the student’s eligibility to sit for the examination. The examination is scheduled through the Office of Graduate Studies in Business at least two weeks prior to the date desired for examination. The student or a committee member may request that the Office of Graduate Studies appoint an outside observer to attend the comprehensive examination.

At the conclusion of the public defense, the graduate dissertation committee will meet in closed session, with and/or without the student, regarding approval of the proposed dissertation topic. The committee may approve subject to revisions, delay the decision, or fail to approve the proposal. The Office of Graduate Studies in Business is notified by the committee chairman of the committee’s decision. Upon unanimous approval of the dissertation proposal by the members of the graduate dissertation committee, and the approval by the director of Graduate Studies in Business, the student is admitted to candidacy for the doctoral degree.

4. Proposal Defense—Following passage of the comprehensive examination the student is eligible to defend a dissertation topic proposal. The proposal defense is scheduled by the chairman of the graduate dissertation committee through the Office of Graduate Studies in Business and is administered by the student’s graduate dissertation committee. The student must be enrolled during the semester in which the examination is administered. The request to schedule the proposal defense must be made at least two weeks prior to the anticipated date of the defense. A proposal defense will not be scheduled sooner than two weeks after a copy of the written dissertation proposal has been distributed to all members of the graduate dissertation committee and the unit within which the major field is housed. The proposal defense is open to all interested parties, and copies of the proposal are available through the unit housing the major.

5. Dissertation and Final Defense—The dissertation shall be required of all candidates for the doctorate. The dissertation must show mastery of the techniques of research and a distinct contribution to the field under investigation and study. The dissertation must conform to the regulations set by the Graduate Council as specified in the manual Guidelines for Preparing Dissertations and Theses. This manual is available on-line at http://www.msstate.edu/dept/grad/thesis_guidelines.htm.

The final defense of the dissertation is an oral examination. The examination is scheduled by the chairman of the graduate dissertation committee through the Office of Graduate Studies in Business and is administered by the student’s graduate dissertation committee. The student must
be enrolled during the semester in which the examination is administered. The request to schedule the final defense must be made at least two weeks prior to the anticipated date of the examination. The examination will not be scheduled sooner than two weeks after a copy of the final manuscript has been distributed to all members of the graduate dissertation committee and the unit within which the major field is housed. To qualify for graduation in a given semester the final defense must take place at least by the “Last day for final examination for doctoral degree” as published in the graduate academic calendar of this publication. The final defense of the dissertation is open to all interested parties and copies of the manuscript are available through the unit housing the major.

At the conclusion of the public defense, the graduate dissertation committee will meet in closed session, with and/or without the student, regarding the results of the final defense of the dissertation. The committee may pass subject to revisions, delay the decision, or fail the student on the final defense. A student may pass the examination with no more than one failing or dissenting vote from a member of the graduate dissertation committee. The results of the final defense are transmitted to the Office of Graduate Studies in Business by the chairman of the graduate dissertation committee at the conclusion of the meeting. To qualify for graduation in a given semester, the Office of Graduate Studies in Business must report the results of the final defense to the Office of Graduate Studies at least by the “Last day for submitting examination results” as published in the graduate academic calendar of this publication.

A student who fails the final examination cannot apply for reexamination until a period of six months has elapsed from the date of the original examination. Two failures on the final examination will result in the student being terminated from further consideration as a doctoral candidate.

For further information on dissertation and defense please refer to the “Doctor of Philosophy” section in this publication.

Transfer of Credits—It is anticipated that an appreciable percentage of the students in the doctoral program will hold master’s degrees in business or economics from recognized institutions for which they will be allowed credit approximating the first year of the doctoral program. In exceptional cases, limited additional transfer credit may be allowed. In no case will transfer credit be allowed for courses in which grades of C or less were earned.

Residence Requirement—At some time in the doctoral course work, the student shall be required to devote two consecutive regular semesters (fall/spring) with a minimum load of nine hours per semester to the graduate program at Mississippi State University.

Academic Requirements—A student in the Ph.D. program may not continue in the program with grades below B in more than six hours of course work on the program of study.

Time Limit—The student must complete the doctoral program within eight years of initial entry.

For More Information—For more information about the Ph.D. program in Business or application materials, inquiries should be addressed to: Director, Graduate Studies in Business, P.O. Drawer 5288, Mississippi State, MS 39762; or call 662-325-1891. Fax: 662-325-8161; E-Mail: gsb@cobilan.msstate.edu.
Graduate students may enhance their studies with relevant experience through programs offered by the Career Center. Cooperative education and internships are available. Cooperative education requires students to complete two work periods, one of which may be a summer. Internships are one semester in duration and may occur during any academic period (fall, spring, summer). Students are encouraged to seek specific information prior to, or immediately upon, enrollment in the graduate program.

**Cooperative Education Program**
235 McCain Engineering Building  
Director: Luther B. Epting  
Associate Director: John Michael Mathews  
Coordinators: Becky Davis and Melody DuBard

**Graduate Courses:**
- **CP 8013** First Work Semester (Approval of Cooperative Education Office, acceptance by employing organization, and admission to the University and Graduate School). 3 hours
- **CP 8023** Second Work Semester (CP 8013). 3 hours
- **CP 8033** Third Work Semester (CP 8023). 3 hours
- **CP 8043** Fourth Work Semester (CP 8033). 3 hours
- **CP 8053** Fifth Work Semester (CP 8043). 3 hours

For further information contact Dr. Luther Epting, Director at lepting@career.msstate.edu or P.O. Box P, Mississippi State, MS 39762.
For those applicants not possessing a B.S. in Chemical Engineering or those coming from institutions that are not ABET-accredited, admission will be considered on a case by case basis. If accepted, those students will be required to complete the required prerequisites and the Chemical Engineering undergraduate core curriculum:

- Calculus sequence plus differential equations, general chemistry (two semesters), organic chemistry (two semesters), physical chemistry, calculus based physics (three semesters).

Admission of a student to the non-thesis master’s degree requires faculty approval on an individualized basis.

M.S. Industrial Hazardous Waste Management—The applicant must have a B.S. in an engineering discipline from an ABET-accredited program. Admission criteria is as follows:
Cumulative GPA of 3.00 Q&A ≥ 1050, V ≥ 400

Program of Study—A minimum of 24 hours of coursework past the M.S. level and a minimum of 20 hours of research/dissertation are required for the Ph.D. in Engineering. A student entering with an M.S. from another institution must demonstrate that he/she has satisfied the Chemical Engineering core; if not, all or a portion of the 12 hours of core course work may be required.

A minimum of 24 hours of coursework, at least half of which must be at the 8xxx level, and six hours of thesis/research are required for the M.S. degree. Requirements for the M.S. in Chemical Engineering include:

- CHE 8011 - Graduate Seminar
- Chemical Engineering Core (12 hours)
  - CHE 8113 Advanced Chemical Engineering Thermodynamics (Fall)
  - CHE 8123 Chemical Kinetics and Dynamics (Spring)
  - CHE 8223 Advanced Process Computations (Fall)
  - CHE 8523 Advanced Transport Phenomena (Spring)
- Mathematics/Statistics (minimum six hours at the 6xxx/8xxx level)
- Technical Electives (minimum six hours at the 6xxx/8xxx level) - technical electives are chosen in conjunction with the research advisor.

Requirements for the M.S. in Industrial Hazardous Waste Management include 24 hours of course work, at least half of which must be at the 8xxx level. Six hours of Thesis/Research are required. The composition of the program of study is flexible, providing the student an opportunity to select courses in conjunction with the research advisor that allow his/her concentration in a particular area of waste management and/or chemical engineering.

A non-thesis engineering master’s degree requires a minimum of 33 hours, 15 hours of which must be at the 8xxx level.

Provisional Admission—Provisional admission is typically not available to students applying for graduate admission to the Dave C. Swalm School of Chemical Engineering.

Academic Performance—The Dave C. Swalm School of Chemical Engineering is committed to maintaining high standards for the graduate programs offered by the school. As a means to ensure satisfactory performance of all graduate students enrolled in the school, the guidelines for unsatisfactory performance are given:

- Failure to maintain an overall B average (3.00) in graduate courses attempted after admission to the program
- More than two grades of C in a graduate level course
- A grade of D or F in a graduate level course
- Failure of the qualifying exam
- Unsatisfactory evaluation of a thesis or a dissertation
- Failure to maintain an overall B average (3.00) in prerequisite undergraduate courses,
- Official withdrawal from school due to academic difficulties.

All students are expected to adhere to these standards. Failure to do so will result in the following actions by the Dave C. Swalm School of Chemical Engineering.

- A student who fails to maintain an overall B average in graduate courses after admission to the program will be given one semester to bring up her/his overall GPA in graduate level courses. If the student currently holds an assistantship from the school, said assistantship may be terminated. The student will be placed on probation for one semester. The graduate level courses taken during this probationary
semester must be part of the graduate student's program of study and should constitute a full load. Failure to attain an overall B average in graduate courses at the end of this probationary semester will result in dismissal from the graduate program.

- A student who earns more than two grades below a B, D, or F in any graduate level course will be automatically dismissed from the graduate program of the Dave C. Swalm School of Chemical Engineering.

- A student who officially withdraws from school during the semester due to academic difficulties will be dismissed from the graduate program of the Dave C. Swalm School of Chemical Engineering.

**Appeals Process**—A student who is dismissed on the basis of academic performance from a graduate program offered by the Dave C. Swalm School of Chemical Engineering may appeal the decision. The appeals procedure is:

- A student may appeal his/her dismissal from the CHE graduate program by submitting a letter of appeal to the Appeals Committee. This letter should contain a detailed explanation of the circumstances leading to his/her dismissal (identified as one of seven points listed in academic performance policy) and should explain any extenuating circumstances leading to failure to maintain satisfactory academic progress.

- The Appeals Committee shall be composed of five members:
  - Director of the Swalm School of Chemical Engineering
  - Graduate Coordinator of Chemical Engineering
  - Major professor for the student
  - A professor from another department within the College of Engineering (asked to serve by the Director and/or Graduate Coordinator of Chemical Engineering)
  - Associate Dean for Student Affairs for the College of Engineering.

- The Appeals Committee will review the provided documentation and reach a consensus decision on whether to uphold or overturn the dismissal. Although the decision of the Appeals Committee is final, the student can appeal this decision through the University-level appeal process.

**Prerequisite and Core Courses**—Course prerequisites are noted in parentheses. A C or better is required in any prerequisite course with CHE as a designation.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 6113</td>
<td>Chemical Reactor Design (CHE 3123, MA 3253)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CHE 6134</td>
<td>Process Design (IE 3913, CHE 3123, CHE 3223)</td>
<td>4 hours</td>
</tr>
<tr>
<td>CHE 6223</td>
<td>Process Instrumentation and Automatic Control (CHE 3213, MA 3253)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CHE 6234</td>
<td>Plant Design (CHE 4113, CHE 4134)</td>
<td>4 hours</td>
</tr>
<tr>
<td>CHE 6423</td>
<td>Fundamentals of Industrial Corrosion (CHE 3413)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CHE 6513</td>
<td>Pulp and Paper Manufacturing Processes (CHE 2114, consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CHE 6613</td>
<td>Air Pollution Control Design: Theory and Practice (consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>CHE 6624</td>
<td>Experimental Methods in Materials Research (CHE 3413)</td>
<td>4 hours</td>
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<td>CHE 6673</td>
<td>Industrial Microbiology</td>
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<tr>
<td>CHE 6990</td>
<td>Special Topics in Chemical Engineering</td>
<td>3 hours</td>
</tr>
<tr>
<td>CHE 7000</td>
<td>Directed Individual Study</td>
<td>1-6 hours</td>
</tr>
<tr>
<td>CHE 8000</td>
<td>Research/Thesis.</td>
<td>6 hours</td>
</tr>
<tr>
<td>CHE 8011</td>
<td>Chemical Engineering Seminar</td>
<td>1 hour</td>
</tr>
<tr>
<td>CHE 8113</td>
<td>Advanced Chemical Engineering Thermodynamics (CHE 3123, CHE 4113)</td>
<td>3 hours</td>
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<tr>
<td>CHE 8123</td>
<td>Chemical Kinetics and Dynamics (consent of instructor)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CHE 8223</td>
<td>Advanced Process Computations (CHE 3223)</td>
<td>3 hours</td>
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<tr>
<td>CHE 8233</td>
<td>Advanced Momentum, Heat, and Mass Transfer (CHE 3223)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CHE 8243</td>
<td>Advanced Equilibrium Stage Operations (CHE 3223)</td>
<td>3 hours</td>
</tr>
<tr>
<td>CHE 8323</td>
<td>Corrosion of Metals</td>
<td>3 hours</td>
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</tbody>
</table>
Completion Requirements—M.S. degree candidates who have the requirement of a thesis must successfully defend the thesis before a committee composed of faculty members of the University. A Ph.D. student must complete a qualifying exam during the summer semester following his/her first full academic year. The qualifying exam is composed of an intensive research experience culminating in a formal written research proposal and oral presentation for committee review. The candidate must also successfully defend her/his dissertation before a committee composed of faculty members of the University.

Admission Criteria—Although not required, the admissions committee encourages students to take the GRE general test. Foreign students may be admitted with TOEFL scores as low as 475 (University minimum), but a score of at least 550 is required for a student to be considered for financial aid.

Program of Study/Completion Requirements—For the M.S. degree, the department requires 30 hours of credit (six hours of research, 23 hours of course work and one seminar credit). For the Ph.D., the department requires one core course in each of the four major areas of chemistry (analytical, inorganic, organic, physical) and three seminars. In addition, each student must pass a series of cumulative exams and take additional coursework as determined in consultation with the doctoral committee. Each graduate student must complete a research project, write a thesis or dissertation, and defend results before a faculty committee.

Provisional Admission—Provisional admission is granted to a student with some deficiency in her/his chemistry background. Students admitted to provisional status are eligible for advancement to regular status after receiving a 3.00 GPA on the first nine hours of regular graduate level courses taken after admission to the program. Neither transfer credits nor unclassified graduate credits may be used to fulfill this requirement. The specific courses used to overcome these deficiencies are chosen by the department’s graduate committee on a case-by-case basis.
**Academic Performance**—All entering students take placement exams to demonstrate competency in the four major areas of chemistry. Competency is demonstrated by scoring at or above the 50th percentile level on each exam. If the student fails to show this level of knowledge, he or she is required to take advanced undergraduate classes in the failing area(s) and achieve a B or better in each course. If the student does not achieve a B in the remedial class, he or she can retake the placement exam. Failure to score above the 50th percentile on a second attempt will result in dismissal from the program.

An overall GPA of 3.00/4.00 on all graduate courses taken after being admitted to the program is required by the University to remain in good standing. The Department of Chemistry requires a B average on all chemistry courses above the 6000 level. If a student fails to meet either criterion, he or she is placed on probation. If the student does not correct the deficiency within one semester, the student may be dismissed from the program.

**Core Courses**

<table>
<thead>
<tr>
<th>Analytical</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 8313  Advanced Analytical</td>
</tr>
<tr>
<td>CH 8333  Advanced Instrumental</td>
</tr>
<tr>
<td>CH 8990  Special Topics: Chemical Separations</td>
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</table>

<table>
<thead>
<tr>
<th>Organic</th>
</tr>
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<tbody>
<tr>
<td>CH 8553  Theoretical Organic</td>
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<tr>
<td>CH 8513  Synthetic Organic</td>
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<table>
<thead>
<tr>
<th>Inorganic</th>
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<tbody>
<tr>
<td>CH 8203  Advanced Inorganic Chemistry II</td>
</tr>
<tr>
<td>CH 8990  Special topic: Organometallic Chemistry</td>
</tr>
<tr>
<td>CH 8990  Special topic: Inorganic Structures and Properties</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Physical</th>
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</thead>
<tbody>
<tr>
<td>CH 8423  Molecular Structure</td>
</tr>
<tr>
<td>CH 8623  Physical Biochemistry</td>
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</table>

**Graduate Courses**—Course prerequisites are noted in parentheses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>CH 6212</td>
<td>Advanced Inorganic Laboratory (prior credit or concurrent enrollment in CH 4213/6213).</td>
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<tr>
<td></td>
<td>2 hours</td>
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<tr>
<td>CH 6213</td>
<td>Advanced Inorganic Chemistry I (consent of the instructor and CH 4413/6413).</td>
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<tr>
<td>CH 6303</td>
<td>Environmental Chemistry I (CH 4523/6523).</td>
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<tr>
<td>CH 6351</td>
<td>Instrumental Analysis Laboratory (concurrent registration in CH 4353/6353).</td>
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<td>CH 6353</td>
<td>Instrumental Analysis (CH 4423/6423).</td>
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<tr>
<td>CH 6411</td>
<td>Physical Chemistry Laboratory I (CH 4413/6413).</td>
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<tr>
<td>CH 6413</td>
<td>Physical Chemistry I (CH 1223, PH 2213 and MA 2733).</td>
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<tr>
<td>CH 6421</td>
<td>Physical Chemistry Laboratory II (CH 4413/6413).</td>
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<td></td>
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<tr>
<td>CH 6423</td>
<td>Physical Chemistry II (CH 4413/6413).</td>
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<td></td>
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<tr>
<td>CH 6511</td>
<td>Organic Chemistry Laboratory I (CH 2221 and CH 2223).</td>
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<tr>
<td>CH 6513</td>
<td>Organic Chemistry I (CH 2223).</td>
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<td>CH 6521</td>
<td>Organic Chemistry Laboratory II (CH 4511/6511 and CH 4513/6513).</td>
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<td>1 hour</td>
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<tr>
<td>CH 6523</td>
<td>Organic Chemistry II (CH 4513).</td>
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<td>3 hours</td>
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<tr>
<td>CH 6533</td>
<td>Intermediate Organic Chemistry (CH 4523/6523).</td>
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<td></td>
<td>3 hours</td>
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<tr>
<td>CH 6990</td>
<td>Special Topics in Chemistry. 1-9 hours</td>
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<tr>
<td>CH 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
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<tr>
<td>CH 8000</td>
<td>Research/Thesis. 6 hours</td>
</tr>
<tr>
<td>CH 8711-8741</td>
<td>Seminar. 1-4 hours</td>
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<td>CH 8990</td>
<td>Special Topics in Chemistry. 1-9 hours</td>
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</table>
CH 9000 Research/Dissertation. 20 hours

Analytical Chemistry:
CH 8313 Advanced Analytical Chemistry (consent of instructor). 3 hours
CH 8333 Advanced Instrumental Analysis (CH 4353/6353 or consent of instructor). 3 hours
CH 8343 Electroanalytical Chemistry (consent of instructor). 3 hours

Biochemistry (These courses accepted also as major credit.):
BCH 6414 Radioisotope Techniques I. 4 hours
BCH 6603-6613 General Biochemistry. 3 hours
BCH 6623 Biochemistry of Specialized Tissues (coregistration in BCH 4613/6613). 3 hours
BCH 6713 Molecular Biology (coregistration in BCH 4613/6613). 3 hours
BCH 6805 Biochemical Methods (coregistration in BCH 4613/6613). 5 hours
BCH 6990 Special Topics in Biochemistry. 1-9 hours
BCH 8101 Seminar. 1 hour
BCH 8133 Biochemical Oxidations and Bioenergetics (BCH 4613/6613). 3 hours
BCH 8243 Molecular Biology of Plants (Coregistration in BCH 4613/6613). 3 hours
BCH 8613 Membrane Biochemistry (BCH 4603/6603). 3 hours
BCH 8623 Physical Biochemistry (CH 4423/6423 and coregistration in BCH 4613/6613). 3 hours
BCH 8633 Enzymes (BCH 4613/6613). 3 hours
BCH 8643 Molecular Genetics (PO 3103 or ZO 3103 and coregistration in BCH 4613/6613) [same as GNS 8643, PHY 8643]. 3 hours
BCH 8654 Intermediary Metabolism (BCH 4613/6613). 4 hours

BCH 8990 Special Topics in Biochemistry. 1-9 hours
BCH 9000 Research/Dissertation. 20 hours

Inorganic Chemistry:
CH 8203 Advanced Inorganic Chemistry II (CH 4213/6213, and CH 4423/6423). 3 hours

Organic Chemistry:
CHE 6323 High Polymer Theory and Practice (CHE 3123, CH 4521, and CH 4523). 3 hours
FP 8121 Advanced Wood Chemistry Laboratory (concurrent registration FP 8123). 1 hour
FP 8123 Advanced Lignocellulosic Chemistry. 3 hours
CH 8513 Synthetic Organic Chemistry. 3 hours
CH 8553 Theoretical Organic Chemistry. 3 hours

Physical Chemistry:
CH 8423 Molecular Structure (CH 4423/6423 and MA 2913). 3 hours

Chemical Physics (These courses accepted also as major credit.):
PH 6713 Introduction to Quantum Mechanics (PH 3613 and MA 2913). 3 hours
PH 6723 Applications to Quantum Mechanics (PH 4713/6713). 3 hours
PH 6813 Introduction to Solid State Physics (PH 3613). 3 hours
PH 8213 Mechanics (a good undergraduate training in physics and mathematics -consent of instructor). 3 hours
PH 8233 Methods of Theoretical Physics I (consent of instructor). 3 hours
PH 8243 Methods of Theoretical Physics II (PH 8233). 3 hours
PH 8313 Electromagnetic Theory I (PH 4333/6333 or equivalent). 3 hours
PH 8613 Nuclear Physics I (PH 4723). 3 hours
PH 8623 Nuclear Physics II (PH 8613, PH 8743). 3 hours
Civil Engineering
James Worth Bagley College of Engineering

Dr. Kirk Schulz, Dean
Dr. Roger L. King, Associate Dean for Research and Graduate Studies
Dr. Thomas D. White, Department Head
Dr. William McAnally, Graduate Coordinator
235 Walker Hall
662-325-3050

The Civil Engineering Department offers graduate study leading to degrees of Master of Science (M.S.) and Doctor of Philosophy (Ph.D.). Major areas of study are: structures, geotechnical, water resources, transportation, construction materials, and environmental engineering. The Civil Engineering Kelly Gene Cook Laboratories include research capabilities in the areas of structures and wind analysis, geotechnical engineering, water quality and environmental engineering, surveying, transportation, and construction materials. Graduate assistantships are supported through sponsored research, teaching assignments, and department resources.

Information about the graduate program contact: Graduate Coordinator, Civil Engineering Department, Box 9546, Mississippi State, MS 39762, or send electronic requests to grad-coordinator@civil.msstate.edu. Information about the Department of Civil Engineering graduate program can be found at the department’s web site: http://www.civil.msstate.edu.

Admission Criteria—Prerequisites for admission to the Civil Engineering graduate program include all of the general requirements of the Office of Graduate Studies. The minimum GPA for acceptance into the Civil Engineering graduate program is 3.00 on a 4.00 scale. Graduates of a non-ABET program must achieve a minimum GRE score (sum of verbal and quantitative) of 1200. International students are required to have a minimum Test of English as a Foreign Language score of 550 (213 for computer based test).

Program of Study/Completion Requirements—Thesis and non-thesis options are available for the Master of Science in Civil Engineering. For the thesis option, the student must successfully complete 24 hours of graduate courses, along with submission and defense of a research thesis. A minimum of 12 hours of the course work must be from upper level graduate courses (7000 and 8000). The student, in coordination with his/her graduate committee, must develop a program of study which may include courses from engineering, mathematics, physical sciences, and business administration. Specifically, the program of study must include:

• Minimum 15 hours of course work in engineering
• Minimum 12 hours of course work in Civil Engineering (nine hours of upper graduate level)
• Maximum nine hours of course work in technical non-engineering courses (computer science, mathematics, statistics, and physical sciences)
• Maximum six hours of course work in business management
• Maximum nine hours of graduate credit can be transferred from other institutions
• Minimum of six hours of CE 8000 (Thesis Research) in addition to the minimum 24 hours of course work
• Defense of thesis.

For the non-thesis option 33 hours of graduate credit course work must be successfully completed. A minimum of 15 hours of the course work must be from upper level graduate courses (7000 and 8000). The student, in coordination with his/her graduate committee, must develop a program of study which may include courses from engineering, mathematics, physical sciences and business administration. Specifically, the program of study must include:

• Minimum 18 hours of course work in Civil Engineering (12 hours of upper graduate level)
• Maximum 12 hours of course work in technical non-engineering courses (computer science, mathematics, statistics, and physical sciences)
• Maximum six hours of course work in business management
• Maximum nine hours of graduate credit can be transferred from other institutions
• Completion of comprehensive examination.

Doctoral students must complete a minimum of the equivalent of three academic years of
applicable course work beyond the bachelor's degree (interpreted as 75 credit hours beyond a bachelor's degree or 45 hours beyond a master's degree). One-half of the course work and all research hours must be taken from Mississippi State University. At some time in the doctoral program, the student will be required to devote one full semester (nine credit hours) or two semesters half-time (six credit hours) on campus to satisfy residency requirements in the graduate program. The doctoral student will be required to conduct research on an approved topic and prepare and successfully defend a dissertation.

Provisional Admission—A student accepted with a GPA of less than 3.00 is admitted on a probationary status. In such case, the student must achieve a minimum 3.00 GPA for their first nine hours of graduate course work. Neither transfer credits nor unclassified graduate credits can be used to fulfill this requirement. An applicant with a bachelor’s degree other than civil engineering may be required to take remedial courses to prepare for graduate studies. Undergraduate remedial courses will be taken for no credit and a grade of B or better is required.

Academic Performance—A student in the Civil Engineering graduate program is expected to maintain a combination of grades, grade point average, and performance. A student may be dismissed from the program for grades of U, D, F, or two grades below B. Failure to maintain a 3.00 grade point average after admission to the program is also basis for dismissal. Dismissal may occur if a student fails to satisfy performance requirements, such as research progress, satisfactory results of written and/or oral examinations, comprehensive/preliminary examination, and thesis or dissertation or research defense. The student will be advised in writing of dismissal and reason for the action. Appeal of dismissal from the Civil Engineering graduate program will be made in writing. The student must submit a memorandum to the Civil Engineering graduate coordinator providing logic and details as to why the dismissal should be reversed. A committee will be formed to review the dismissal. Typically, the committee will consist of department head, department graduate coordinator, and at least two faculty members. The student’s research director will not be a member of the committee but may be asked for input relative to the dismissal.

Core and Prerequisite Courses—Course prerequisites are noted in parentheses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 6103</td>
<td>Pavement Design (CE 3414).</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 6143</td>
<td>Traffic Engineering (CE 3113).</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 6183</td>
<td>Waterborne Transportation (consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 6303</td>
<td>Stress Analysis (EM 3213 and MA 3253).</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 6313</td>
<td>Advanced Concrete Materials (CE 3314).</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 6513</td>
<td>Engineering Hydrology (CE 3803).</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 6523</td>
<td>Open Channel Hydraulics (CE 3803).</td>
<td>3 hours</td>
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<tr>
<td>CE 6533</td>
<td>Computational Methods in Water Resources Engineering (consent of Instructor).</td>
<td>3 hours</td>
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<tr>
<td>CE 6543</td>
<td>Advanced Reinforced Concrete (CE 4633).</td>
<td>3 hours</td>
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<tr>
<td>CE 6563</td>
<td>Sedimentation Engineering (consent of instructor).</td>
<td>3 hours</td>
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<tr>
<td>CE 6603</td>
<td>Indeterminate Structures I (CE 3603).</td>
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<td>CE 6653</td>
<td>Timber Design (CE 3603).</td>
<td>3 hours</td>
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<tr>
<td>CE 6663</td>
<td>Matrix Methods of Structural Analysis (CE 4603/6603 or consent of instructor).</td>
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<tr>
<td>CE 6673</td>
<td>Bridge Design (CE 4623 and/or CE 4633).</td>
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<tr>
<td>CE 6683</td>
<td>Advanced Steel Design (CE 4623).</td>
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<tr>
<td>CE 6703</td>
<td>Construction Engineering and Management (senior standing or consent of instructor).</td>
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<td>CE 6843</td>
<td>Advanced Sanitary Analysis (CE 3803).</td>
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<tr>
<td>CE 6873</td>
<td>Water and Wastewater Engineering (CE 3803).</td>
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<tr>
<td>CE 6893</td>
<td>Hazardous Waste Management (consent of instructor).</td>
<td>3 hours</td>
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<tr>
<td>CE 6990</td>
<td>Special Topics in Civil Engineering. 1-9 hours</td>
<td></td>
</tr>
<tr>
<td>CE 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
<td></td>
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<tr>
<td>CE 8000</td>
<td>Research/Thesis. 6 hours</td>
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</tr>
<tr>
<td>CE 8133</td>
<td>Traffic Flow Theory (consent of instructor).</td>
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</tr>
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<td>Course Code</td>
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<td>CE 8433</td>
<td>Advanced Foundations (CE 4433). 3 hours</td>
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<tr>
<td>CE 8453</td>
<td>Physical Properties of Soils (CE 3413). 3 hours</td>
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<td>CE 8533</td>
<td>Hydromechanics (consent of instructor). 3 hours</td>
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<td>CE 8543</td>
<td>Tidal Hydraulics (consent of instructor). 3 hours</td>
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<td>CE 8563</td>
<td>Groundwater Resource Evaluation (CE 3803). 3 hours</td>
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<td>CE 8573</td>
<td>Environmental Quality (consent of instructor). 3 hours</td>
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<tr>
<td>CE 8603</td>
<td>Indeterminate Structures II (CE 4603/6603). 3 hours</td>
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<td>CE 8613</td>
<td>Advanced Design in Metals (CE 4623). 3 hours</td>
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<td>CE 8623</td>
<td>Theory of Plates and Shells (CE 4603/6603). 3 hours</td>
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<td>CE 8643</td>
<td>Prestressed Concrete (CE 4633). 3 hours</td>
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<td>CE 8663</td>
<td>Advanced Computational Methods in Structural Analysis (CE 4663/6663 or consent of instructor). 3 hours</td>
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<td>CE 8683</td>
<td>Finite Element Analysis in Structural Engineering (CE 4663/6663). 3 hours</td>
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<td>CE 8693</td>
<td>Advanced Structural Design (CE 4623 and CE 4633). 3 hours</td>
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<td>CE 8803</td>
<td>Unit Processes and Operations in Environmental Engineering I. 3 hours</td>
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<tr>
<td>CE 8823</td>
<td>Unit Processes and Operations in Environmental Engineering II. 3 hours</td>
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<td>CE 8833</td>
<td>Sludge Treatment and Disposal (CE 8803 and CE 8824). 3 hours</td>
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<td>CE 8843</td>
<td>Water Treatment Plant Design (CE 3824). 3 hours</td>
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<td>CE 8863</td>
<td>Solid Waste Management (CE 3824). 3 hours</td>
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<td>CE 8893</td>
<td>Industrial Waste Management. 3 hours</td>
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<tr>
<td>CE 8923</td>
<td>Surface Water Quality Modeling (consent of instructor). 3 hours</td>
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<tr>
<td>CE 8933</td>
<td>Surface Water Quality Modeling II (consent of instructor). 3 hours</td>
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<tr>
<td>CE 8953</td>
<td>Fine Sediment Processes (consent of instructor). 3 hours</td>
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<td>Special Topics in Civil Engineering. 1-9 hours</td>
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<tr>
<td>CE 9000</td>
<td>Research/Dissertation. 20 hours</td>
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</tbody>
</table>

**Cognitive Science**  
(See Psychology)

**Communication**  
College of Arts and Sciences  
Dr. Phillip B. Oldham, Dean  
Dr. John E. Forde, Department Head  
130 McComas Hall  
662-325-3320

The following courses may be taken for graduate credit by qualified students majoring in other subjects. At the present, there is no graduate program in communication. For additional information, write to the Department of Communication, P.O. Box PF, Mississippi State, MS 39762.

**Graduate Courses**—Course prerequisites are noted in parentheses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CO 6053</td>
<td>Internship in Communication (CO 2323 or CO 2333 for Radio/TV students or communication majors only). 3 hours</td>
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<tr>
<td>CO 6203</td>
<td>Nonverbal Communication (CO 1223 or PSY 1013). 3 hours</td>
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<td>CO 6213</td>
<td>Political Communication (CO 1223) 3 hours</td>
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<td>CO 6223</td>
<td>Advanced Communication Theory (CO 1223). 3 hours</td>
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<tr>
<td>CO 6243</td>
<td>Rhetorical Theory (CO 1223). 3 hours</td>
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</table>
CO 6253  Elements of Persuasion (CO 1223). 3 hours
CO 6273  Intercultural Communication (CO 1223). 3 hours
CO 6313  Mass Media Law. 3 hours
CO 6323  Mass Media and Society. 3 hours
CO 6373  Practicum in Television News (CO 2333, 15 additional hours communication courses and consent of instructor). 3 hours
CO 6403  Journalism Ethics (CO 2413). 3 hours
CO 6504  History of the Theatre. 4 hours
CO 6524  Directing (CO 2624). 4 hours
CO 6533  Advanced Acting (CO 2503). 3 hours
CO 6573  Theatre Management. 3 hours
CO 6583  Playwriting (CO 1503). 3 hours
CO 6813  Public Relations in Organizations (CO 3813, CO 4253/6253). 3 hours
CO 6990  Special Topics in Communications. 1-9 hours
CO 7000  Directed Individual Study. 1-6 hours
CO 8213  Seminar in Communication Theory (CO 4223/6223). 3 hours
CO 8253  Seminar in Persuasion (CO 4253/6253). 3 hours
CO 8990  Special Topics in Communication. 1-9 hours

Community College Leadership
(See Instructional Systems, Leadership, and Workforce Development)

Computational Engineering
An Interdisciplinary Curriculum
James Worth Bagley College of Engineering
Dr. Kirk H. Schulz, Dean
Dr. Roger L. King, Associate Dean for Research and Graduate Studies
Dr. Mark Janus, Graduate Coordinator
Box 9627
Mississippi State, MS 39762
662-325-8278
grad-coordinator@erc.msstate.edu

The Computational Engineering graduate program is interdisciplinary, with faculty drawn from the academic departments of the College of Engineering, as well as the research faculty of the ERC. Programs of study and research leading to both the Master of Science degree and the Doctor of Philosophy degree are available. The Computational Engineering program makes use of cross-disciplinary study to produce graduates with broad viewpoints and backgrounds to integrate the problem domain with engineering design and computational methods and tools, including computer science, computing technology, and mathematics. The program is open to students with undergraduate degrees in engineering, computer science, or a physical science. Research assistantships are available through research projects in the ERC.

Admission Criteria—To be admitted, the student must meet the admission requirements of the Office of Graduate Studies, receive a positive recommendation from the Computational Engineering screening committee, and be accepted as a student by a member of the Computational Engineering graduate faculty. International students must have scored at least 550 on the Test of English as a Foreign Language (TOEFL). All applicants are strongly encouraged to submit scores for the Graduate Record Examination as part of the application packet.

Program of Study—The specific requirements for the degrees are governed by the general requirements of the Office of Graduate Studies and by the student’s graduate committee. The committee must include at least one Computational Engineering faculty member from each of the following areas: 1) a Computational Engineering application area, 2) high-performance computing, and 3) numerical mathematics. The graduate committee will
ensure that the student’s program of study adequately addresses each of the three primary cross-disciplinary areas (an application area, high-performance computing, and numerical mathematics), and students are encouraged to include one or more courses in scientific visualization or graphics. The composition of the graduate committee and the student’s program of study must be approved by the Computational Engineering Program Coordinator.

**Provisional Admission**—Because of the interdisciplinary nature of the Computational Engineering program, virtually all students are required to take some prerequisite courses. Nevertheless, all students admitted to the program are granted regular admission. Provisional admission is not approved.

**Academic Performance**—Continued enrollment in the graduate program in Computational Engineering is dependent upon satisfactory performance in the courses and satisfactory progress toward completion of the degree. To achieve satisfactory performance, a student must:

1. Maintain a B average on:
   a) All undergraduate prerequisite Courses;
   b) All graduate courses completed after admission to the program;
   c) All graduate courses included on the student’s program of study.
2. Have no more than one grade less than C.
3. Have a major advisor and a supervisory committee (after the first two semesters of enrollment).

Should a student’s cumulative grade point average (in any of the three categories above) be less than 3.00 at the end of a term, the student will be placed on “probation” and will be given one semester to earn a cumulative grade point average of 3.00 or greater. If at the end of the probationary term the student’s cumulative grade point average (in any of the three categories above) is less than 3.00, the student’s program of study will be terminated immediately. If the student enrolls in the summer term, it will count as one term.

Should a student earn a second grade less than a C, the student’s program of study will be terminated immediately. Should a student who is beyond his/her second period of study not have a major advisor and supervisory committee, the student will be placed on probation and given one semester to form a committee. Should the student not be able to form a committee, his/her program of study will be terminated.

A student may appeal termination of his/her study to the Computational Engineering Supervisory Committee.

**Prerequisite and Core Courses**—Because of the interdisciplinary nature of the Computational Engineering program, courses listed below are typical of those that are acceptable. Courses not listed can be used for graduate credit with the approval of the student’s supervisory committee and the Computational Engineering Program Coordinator.

**Computational Engineering Applications:**
- **ASE 6423** Introduction to Computational Fluid Dynamics (consent of instructor). 3 hours
- **ASE 6433** Fundamentals of Numerical Grid Generation (consent of instructor). 3 hours
- **CE 6663** Matrix Methods of Structural Analysis (CE 4603/6603 or consent of instructor). 3 hours
- **CHE 8223** Advanced Process Computations (CHE 3223). 3 hours
- **ASE 8363** Computational Heat Transfer (consent of instructor). 3 hours
- **ME 8363** Computational Heat Transfer (consent of instructor). 3 hours
- **ASE 8413** Computational Fluid Dynamics I (consent of instructor). 3 hours
- **ASE 8423** Computational Fluid Dynamics II (ASE 8413 or equivalent). 3 hours
- **ASE 8433** Advanced Numerical Grid Generation (ASE 6433 or consent of instructor). 3 hours
- **CE 8663** Computational Methods in Structural Analysis (CE 4663/6663 with grade of B or better or consent of instructor). 3 hours
- **CE 8683** Finite Element Analysis (CE 4663/6663). 3 hours

**High Performance Computing:**
- **CSE 6163** Designing Parallel Algorithms (CSE 3324 or CSE 4733/6733 with grade of C or better). 3 hours
- **CSE 6214** Software Engineering I (CSE 2383 with grad of C or better). 3 hours
ECE 6713 Computer Architecture (ECE 3724 with a grade of C or better). 3 hours
ECE 8063 Parallel Computing Architectures I (ECE 4713/6713 and CSE 4113/6113). 3 hours
ECE 8073 Parallel Computing Architectures II (ECE 8063 and/or consent of instructor). 3 hours
CSE 8733 Advanced Systems Programming (CSE 4733/6733). 3 hours
CSE 8833 Algorithms (CSE 4833/6833). 3 hours
CSE 8843 Complexity of Sequential and Parallel Algorithms (CSE 4833/6833). 3 hours
CSE 9133 Topics in High Performance Computing (consent of instructor). 3 hours

Numerical Mathematics:
MA 6313 Numerical Analysis I (CSE 1213 or equivalent, MA 3113 and MA 2743). 3 hours
MA 6323 Numerical Analysis II (CSE 1213 or equivalent, MA 3113 and MA 3253). 3 hours
MA 8363 Numerical Solution of Systems of Nonlinear Equations (MA 4313/6313 and MA 4323/6323). 3 hours
MA 8383 Numerical Solution of Ordinary Differential Equations I (MA 4313/6313 and MA 4323/6323). 3 hours
MA 8393 Numerical Solution of Ordinary Differential Equations II (MA 8383). 3 hours
MA 8443 Numerical Solution of Partial Differential Equations I (MA 4313/6313, MA 4323/6323, and MA 4373/6373 or consent of instructor). 3 hours
MA 8453 Numerical Solution of Partial Differential Equations II (MA 8443). 3 hours
MA 8463 Numerical Linear Algebra (MA 4323/6323). 3 hours
MA 8473 Advanced Numerical Analysis I (MA 4933/6933). 3 hours
MA 8483 Advanced Numerical Analysis II (MA 8473). 3 hours

Graphics and Visualization:
CSE 6413 Principles of Computer Graphics (CSE 2383 with grade of C or better and MA 3113). 3 hours
CSE 8413 Visualization (CSE 4413/6413). 3 hours
CSE 8433 Advanced Computer Graphics (CSE 4413/6413). 3 hours
CSE 9413 Topics in Computer Graphics and Visualization (consent of instructor). 3 hours

Special Topics, Individual Study, Thesis and Dissertation Research:
CME 6990 Special Topics in Computational Engineering. 1-9 hours
CME 7000 Directed Individual Study. 1-6 hours
CME 8000 Research/Thesis. 6 hours
CME 8990 Special Topics in Computational Engineering. 1-9 hours
CME 9000 Research/Dissertation. 20 hours

Completion Requirements—Master of Science—Both a thesis (research) option and a project (professional) option are offered. For the research option, successful completion of at least 24 credit hours of graduate course work (at least 12 hours at the 8000 level) plus submission and defense of a 6-hour research thesis are required.

For the professional degree option, successful completion of at least 33 credit hours of graduate course work and a professional project are required. No more than three hours of credit for the project can be applied toward the required 30 hours. At least 15 hours of course work on the program of study must be at the 8000 or higher level.

Completion Requirements—Doctor of Philosophy—Each candidate for the doctoral degree must conduct research and present a dissertation on that research that 1) demonstrates a mastery of the techniques of research and 2) makes a very distinct contribution to the field of Computational Engineering. The dissertation must conform to the rules of the Office of Graduate Studies.
Computer Engineering
(See Electrical and Computer Engineering)

Computer Science and Engineering
James Worth Bagley College of Engineering

Dr. Kirk Schulz, Dean
Dr. Roger L. King, Associate Dean for Research and Graduate Studies
Dr. Julia E. Hodges, Department Head
Dr. Edward B. Allen, Graduate Coordinator
300 Butler Hall
P.O. Box 9637
Mississippi State, MS 39762-9637
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E-mail: office@cse.msstate.edu
Website: http://www.cse.msstate.edu

Graduate study is offered in the Department of Computer Science and Engineering leading to the degrees of Master of Science in computer science and Doctor of Philosophy in computer science. Several teaching and research assistantships are available. Application forms for admission to graduate studies, departmental assistantships, information regarding the graduate programs, faculty and their research interests, and courses are available from the department’s page on the World Wide Web.

Application Procedure—An applicant is required to submit the following documents to the Office of Graduate Studies or the department. The department participates in the “self-managed” application process. Both methods are equivalent. (See the Admissions section in this publication.)

- Application for admission to graduate study;
- Transcripts from all former institutions attended;
- TOEFL score (for international students when English is not the official first language of home country);
- Scores on the general test of the Graduate Record Examination (GRE);
- Three letters of recommendation; and
  - Statement of the applicant’s career goals and objectives.
  - $30.00 application fee

International students will also need:
- Document of Support Form and associated documentation.

In addition, the applicant is encouraged to submit directly to the Department of Computer Science and Engineering any additional information (such as GRE subject test scores, resume, etc.) that supports his/her application.

The department has an application form for assistantships that is separate from the application for graduate admission. This application can be downloaded from http://www.cse.msstate.edu/GRADUATE/assist.doc. For additional information visit the departmental website.

Application Dates—Applications may be submitted at any time. Completed applications should be received by the dates specified by the Office of Graduate Studies. Preference for awarding assistantships will be given to applications received by February 1 for Summer or Fall Semester admission and October 1 for Spring Semester admission.

Master of Science Degree
Regular Admission to the M.S. Program—For regular admission to the Master of Science program, the applicant must:

1. Satisfy the minimum requirements for admission to graduate study as specified in the Mississippi State University Graduate Studies Bulletin (available online at http://www.msstate.edu/dept/grad/) and submit all documents as required in the application procedure;
2. Possess those qualifications and interests that indicate to the Computer Science Graduate Studies Committee that the applicant will be successful in the MSU computer science Master of Science program; and
3. Have a minimum TOEFL (Test of English as a Foreign Language) score of 550 on the paper version or 213 on the computer version. (This applies only to international students. The University may waive the TOEFL requirement for international students who hold a degree from a U.S. Institution).

Contingent Admission to the M.S. Program—An applicant who fails to meet the requirements
for regular admission may be considered for contingent admission by the Graduate Studies Committee. Contingent admission may be granted under the following conditions:

An international student with a TOEFL score of less than 550 but at least 500 may be admitted. To achieve regular admission status, the student will be required to complete satisfactorily the appropriate English as a Second Language sequence of courses; see the MSU Graduate Studies Bulletin (General Requirements for Admission, English Language Requirements for International Students) for specific requirements.

An applicant who has not yet taken the GRE but who has a computer science baccalaureate degree from a U.S. institution may be admitted, but only on a contingency basis. To achieve regular admission status, the student will be required to take the GRE General Test in his or her first semester and obtain a satisfactory composite GRE score.

A student who has not completed the undergraduate prerequisites may be given contingent admission. To achieve regular admission status, the student must complete all remaining prerequisites with a grade of B or better in each course.

Undergraduate Prerequisite Courses for the Master’s Degree—The prerequisite courses required of all Master’s students are the following and their prerequisites:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 2383</td>
<td>Data Structures and Analysis of Algorithms</td>
</tr>
<tr>
<td>MA 2733</td>
<td>Calculus III</td>
</tr>
<tr>
<td>ECE 3724</td>
<td>Microprocessors I</td>
</tr>
<tr>
<td>CSE 3813</td>
<td>Formal Languages</td>
</tr>
<tr>
<td>CSE 4713/6713</td>
<td>Programming Languages</td>
</tr>
<tr>
<td>CSE 4733/6733</td>
<td>Operating Systems I</td>
</tr>
<tr>
<td>CSE 4833/6833</td>
<td>Analysis of Algorithms</td>
</tr>
</tbody>
</table>

Candidates for the Master’s degree must have completed all prerequisite courses or their equivalent. These courses may be completed after enrolling in the graduate program. None of the prerequisite courses may appear on a student’s graduate program of study.

Program of Study—All students must complete a minimum of 25 hours of graduate course work that satisfies the following requirements:

At least one-half of the courses in the program of study must be at the full graduate level (numbered 8000 or 9000).

A minimum of 12 credit hours of full graduate computer science courses must be included in the program of study.

At least three of the following six Fundamental Areas courses must be included in the program of study:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 6153</td>
<td>Data Communications and Computer Networks</td>
</tr>
<tr>
<td>CSE 6163</td>
<td>Designing Parallel Algorithms</td>
</tr>
<tr>
<td>CSE 6214</td>
<td>Introduction to Software Engineering</td>
</tr>
<tr>
<td>CSE 6413</td>
<td>Computer Graphics</td>
</tr>
<tr>
<td>CSE 6503</td>
<td>Database Management Systems</td>
</tr>
<tr>
<td>CSE 6633</td>
<td>Artificial Intelligence</td>
</tr>
</tbody>
</table>

A student who has taken any of these six courses for undergraduate credit may use the undergraduate course to meet the graduate Fundamental Areas requirement and substitute another graduate-level course approved by the student’s graduate committee.

The program of study must include one of the following theory courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 8813</td>
<td>Formal Languages and Automata Theory</td>
</tr>
<tr>
<td>CSE 8823</td>
<td>Introduction to Combinatorics and Graph Theory</td>
</tr>
<tr>
<td>CSE 8833</td>
<td>Algorithms</td>
</tr>
<tr>
<td>CSE 8843</td>
<td>Complexity of Sequential and Parallel Algorithms</td>
</tr>
<tr>
<td>CSE 8990</td>
<td>Special Topics in Computer Science on a topic which has been designated in advance by the department as a theory course fulfilling this requirement</td>
</tr>
</tbody>
</table>

The program of study must include one departmental seminar (one credit hour):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 8011</td>
<td>Seminar</td>
</tr>
</tbody>
</table>

Students must select either a thesis or a non-thesis option in their program of study. A student may only select the thesis option if a member of the graduate faculty has agreed to serve as their thesis director.

Thesis option—If the thesis option is selected, the student must:

2. Propose research within his/her area of interest. Normally the major professor will direct the thesis research. The research must be accepted by his/her Graduate Committee and reported in a defensible thesis paper.
3. Defend the thesis research to his/her Graduate Committee at a formal presentation at the time of the comprehensive examination.

Non-thesis option—If the non-thesis option is selected, the student must:

1. Complete three additional courses (nine credit hours) in his/her area of interest;
insuring that at least 15 hours of the courses in the program of study are at the full graduate level (numbered 8000 or 9000). One of the three additional courses may be Directed Project (CSE 8080) if the student’s major professor (or another member of the student’s graduate committee) agrees to direct the project.

2. Stand for an oral comprehensive examination. Students who complete a directed project present the results of the directed project to his/her Graduate Committee at the time of the comprehensive examination.

All M.S. students must perform satisfactorily on an oral comprehensive examination. If the student is in the thesis option or is completing a Directed Project, the Master’s comprehensive examination is held in conjunction with the student’s project presentation or thesis defense.

Doctor of Philosophy Degree

Regular Admission to the Ph.D. Program—For regular admission to the doctoral program, the applicant must:

1. Satisfy the minimum requirements for admission to graduate study as specified in the Mississippi State University Graduate Studies Bulletin (available online at http://www.msstate.edu/dept/grad/) and submit all documents as required in the application procedure below;

2. Possess those qualifications and research interests that indicate to the Computer Science and Engineering Graduate Studies Committee that the applicant will be successful in the computer science doctoral program; and

3. Have a minimum TOEFL (Test of English as a Foreign Language) score of 550 on the paper version or 213 on the computer version. (This applies only to international students. The University may waive the TOEFL requirement for international students who hold a degree from a U.S. institution.)

Contingent Admission to the Ph.D. Program—A student who fails to meet the requirements for regular admission may be considered for contingent admission by the Graduate Studies Committee. Contingent admission may be granted under the following conditions:

1. An international student with a TOEFL score of less than 550 but at least 500 may be admitted. To achieve regular admission status, the student will be required to complete satisfactorily the appropriate English as a Second Language sequence of courses; see the MSU Graduate Studies Bulletin (General Requirements for Admission, English Language Requirements for International Students) for specific requirements.

2. An applicant who has not yet taken the GRE but who has a computer science baccalaureate degree from a U.S. institution may be admitted, but only on a contingency basis. To achieve regular admission status, the student will be required to take the GRE General Test in his or her first semester and obtain a satisfactory composite GRE score.

3. A student who has not completed the undergraduate prerequisites may be given contingent admission. To achieve regular admission status, the student must complete all remaining prerequisites with a grade of B or better in each course.

Program of Study—The course work will consist of not less than 43 credit hours of applicable graduate courses exclusive of thesis, project, and dissertation. Courses completed as part of the master’s degree may, when approved by the student’s Graduate Committee, be applied to the program of study.

All undergraduate prerequisite courses listed for the Master’s degree must be satisfied. At least one-half of all graduate courses in the student’s program of study must be at the full graduate level (8000- or 9000-level courses). In addition, the program of study must contain the following specific elements:

1. Major Course Work—The major course work requires a minimum of 43 credit hours consisting of the following:

   a. Two full graduate courses from the Theory of Computation area:
      • CSE 8813 Formal Languages and Automata Theory
      • SE 8823 Introduction to Combinatorics and Graph Theory
      • CSE 8833 Algorithms
      • CSE 8843 Complexity of Sequential and Parallel Algorithms
      • CSE 8990 Special Topics in Computer Science on a topic designated in advance by the department as a theory course fulfilling this requirement

   b. At least four full graduate courses from one area (the area of concentration) below and at least two full graduate courses from one other area below (the supporting area):
      • Artificial Intelligence
      • Software Engineering
      • High Performance Computing
• Graphics and Visualization
• Computer Security

Courses applying directly to the student’s research and approved by the student’s Graduate Committee may be included in the research area course work, even if they are offered from another area or by another department.

c. At least three of the following six Fundamental Areas courses:

- CSE 6153 Data Communications and Computer Networks
- CSE 6163 Designing Parallel Algorithms
- CSE 6214 Introduction to Software Engineering
- CSE 6413 Computer Graphics
- CSE 6503 Database Management Systems
- CSE 6633 Artificial Intelligence

A student who has taken any of these six courses for undergraduate credit may use the undergraduate course to meet the graduate fundamental areas requirement and substitute another graduate-level course approved by the student’s Graduate committee.

d. One departmental seminar (one credit hour)

2. Minor—A minor is defined by the Office of Graduate Studies as a current block of course work completed in any program other than the major program and approved for master’s or doctoral programs. A minor for Ph.D. students in computer science is optional. The minor requirements (12 hours) are in addition to those required in the major area and must be approved by the minor professor. The minor professor serves as a member of the student’s graduate committee.

3. Dissertation—A minimum of 20 hours of dissertation is required. A student may enroll in dissertation hours only with the approval of his/her major professor, who will be the instructor of record and will assign a grade (S or U). The student’s Graduate Committee must be approved and in place before the student can enroll in dissertation hours.

Admission to Candidacy—A doctoral student becomes a candidate upon completion of all prerequisite and Fundamental Areas courses, completion of all courses on the program of study, acceptance of a research topic by his/her Graduate Committee, and passing the preliminary examination.

Examination Procedure—During preparation for the doctoral degree, the student will be required to complete three examinations and present an oral dissertation proposal. The examinations are the qualifying examination, taken during the student’s first year of study; a preliminary examination, taken after the student has completed (or is within six hours of having completed) all course work and has had a dissertation topic approved; and the final examination, taken when all other examinations and the dissertation have been completed.

At the time that the student takes the qualifying examination, the graduate faculty will conduct a review of the student’s status in the program. This review will include, as a minimum, the following:

• Performance on the qualifying examination,
• Progress and performance in courses,
• Possible serious impediments to further progress toward the doctorate.

Such a review could result in binding recommendations from the graduate faculty or strong recommendations that the student address a problem within a certain time frame or could even result in dismissal from the program.

Minor in Computer Science
Master’s Degree—The Graduate Council requires that a student who wishes to earn a minor in computer science in a master’s degree program complete at least nine semester hours of computer science graduate credit. In addition, the Department of Computer Science and Engineering requires that the following requirements be satisfied:

1. At least three semester hours must be at the full graduate (8000) level.
2. At least six semester hours must be in one of the following areas: artificial intelligence, software engineering, high performance computing, graphics and visualization, theory, or computer security.
3. All prerequisites courses for the minor courses included in the program of study must be satisfied.

The student must be accepted by a minor professor in the Department of Computer Science and Engineering and have the approval of both the minor professor and the Graduate Coordinator in Computer Science and Engineering of the minor program of study prior to enrollment in graduate courses for the minor. The minor professor will be included in the student’s graduate committee.

Minor in Computer Science Ph.D. Degree—The Graduate Council requires that a student who wishes to earn a minor in computer science in a Ph.D. degree program complete at least 12
Academic Performance:
Academic Probation—Once admitted to the graduate program in Computer Science, a student who fails to maintain a satisfactory academic record will be considered to be on academic probation. A graduate GPA will be computed for each student at the end of each semester. The student’s graduate GPA is the average of all graduate courses attempted while in the CS graduate program.

• A student whose graduate GPA drops below 3.00 is automatically on academic probation.
• A student who obtains a grade below a B on a prerequisite course is automatically on academic probation.
• To be removed from probation, the student, by the completion of the next nine credit hours of progress toward the degree, must:
  ♦ achieve a graduate GPA of 3.00 or above, and
  ♦ earn a grade of B or above on any prerequisite course for which a grade lower than B was previously obtained.

With the approval of the Graduate Coordinator and the Dean of the College of Engineering, a student may repeat one course per degree. This policy applies to all courses (even those not on the program of study) taken as a graduate student related to a specific program, and only to those courses taken at MSU. With the exception of those courses approved for repeated credit (e.g., internships, special topics, individual studies, thesis, dissertation, etc.), a specific course may be repeated only once. Both courses will remain on the permanent transcript, and both grades will be computed in final averages. No additional program credit hours will be generated from a repeated course.

At the beginning of each semester the Department of Computer Science and Engineering Graduate Studies Committee will evaluate the records of all Computer Science graduate students currently on probation, as well as students making a grade of D, F, or U during the previous semester. The Graduate Studies Committee will consider recommending that the Dean of the College of Engineering dismiss a student enrolled in a graduate program in Computer Science if:

• The student was admitted on TOEFL contingency and fails to make satisfactory progress towards completion of the appropriate English as a Second Language sequence of courses.
• The student was admitted without GRE scores and fails to take the GRE General Test during the next semester or fails to obtain a satisfactory composite score on the GRE.
• The student was admitted with contingencies due to deficiencies in prerequisite coursework and fails to make satisfactory progress toward completion of the prerequisites.
• The student is on academic probation and is unable to meet all requirements for removal from probation by the completion of the next nine credit hours of progress toward the degree.
• The student makes a grade of D or F in a graduate or undergraduate course attempted while in the graduate program in Computer Science.
• The student receives a grade of U in an S/U graded course.

Appeals Process—A student who has been dismissed from the Computer Science graduate program has the right to appeal the dismissal.

• Within four weeks of being notified of the dismissal, a student who wishes to appeal must write a letter requesting a reconsideration of the dismissal, giving all pertinent facts and explaining any extenuating circumstances. The letter should be addressed to the Head of the Department of Computer Science and Engineering. The Head of the Department of Computer Science and Engineering will review this appeal and will render a decision within five working days. If the decision is in favor of the student, the Head of the Department of Computer Science and Engineering will recommend to the Dean of the College of Engineering that the student’s dismissal from the Computer Science graduate program be rescinded.
• If the student is dissatisfied with the decision of the Department Head, the student may appeal in writing to the Dean of the College of Engineering. See Academic Status, Appeal in this publication.
• If this appeal is unsuccessful, the student may then appeal to the Provost and Vice President for Academic Affairs.

**Graduate Courses**—Course prerequisites are noted in parentheses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 6990</td>
<td>Special Topics in Computer Science</td>
<td>1-9</td>
</tr>
<tr>
<td>CSE 7000</td>
<td>Directed Individual Study</td>
<td>1-6</td>
</tr>
<tr>
<td>CSE 8000</td>
<td>Research/Thesis</td>
<td>1-6</td>
</tr>
<tr>
<td>CSE 8011</td>
<td>Seminar</td>
<td>1</td>
</tr>
<tr>
<td>CSE 8080</td>
<td>Directed Project in Computer Science</td>
<td>1-3</td>
</tr>
<tr>
<td>CSE 8990</td>
<td>Special Topics in Computer Science</td>
<td>1-9</td>
</tr>
<tr>
<td>CSE 9000</td>
<td>Research/Dissertation</td>
<td>1-20</td>
</tr>
</tbody>
</table>

**Artificial Intelligence:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 6633</td>
<td>Artificial Intelligence (CSE 2383 and CSE 2813 with a grade of C or better).</td>
<td>3</td>
</tr>
<tr>
<td>CSE 6653</td>
<td>Cognitive Science (CSE 4633/6633 or PSY 4713 or PHI 4143/6143 or AN 4623/6623 or EN 4403/6403).</td>
<td>3</td>
</tr>
<tr>
<td>CSE 6663</td>
<td>Human-Computer Interaction (CSE 3813 with a grade of C or better for CS majors, permission of instructor for non-majors).</td>
<td>3</td>
</tr>
<tr>
<td>CSE 6673</td>
<td>Psychology of Human-Computer Interaction (PSY 3713 or CSE 4663/6663 or IE 4113/6113 or consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>CSE 8613</td>
<td>Cognitive Models of Skill (Graduate Standing).</td>
<td>3</td>
</tr>
<tr>
<td>CSE 8633</td>
<td>Natural Language Processing (CSE 4633/6633).</td>
<td>3</td>
</tr>
<tr>
<td>CSE 8663</td>
<td>Neural Computing (CSE 4633/6633).</td>
<td>3</td>
</tr>
<tr>
<td>CSE 8673</td>
<td>Machine Learning (CSE 4633/6633).</td>
<td>3</td>
</tr>
<tr>
<td>CSE 9633</td>
<td>Topics in Artificial Intelligence (consent of instructor).</td>
<td>3</td>
</tr>
</tbody>
</table>

**Software Engineering:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 6214</td>
<td>Introduction to Software Engineering (CSE 2383 with a grade of C or better).</td>
<td>4</td>
</tr>
<tr>
<td>CSE 6233</td>
<td>Software Architecture and Design Paradigms (CSE 4214/6214 with a grade of C or better).</td>
<td>3</td>
</tr>
<tr>
<td>CSE 6243</td>
<td>Information and Computer Security (CSE 4733/6733 with a grade of C or better).</td>
<td>3</td>
</tr>
<tr>
<td>CSE 6273</td>
<td>Introduction to Computer Forensics (Senior standing in CSE/SE/CPE/MIS/CJ).</td>
<td>3</td>
</tr>
<tr>
<td>CSE 6283</td>
<td>Software Testing and Quality Assurance (CSE 4214/6214 with a grade of C or better).</td>
<td>3</td>
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<tr>
<td>CSE 8233</td>
<td>Software Engineering Project Management (CSE 4214/6214).</td>
<td>3</td>
</tr>
<tr>
<td>CSE 8243</td>
<td>Software Specification (CSE 4214/6214).</td>
<td>3</td>
</tr>
<tr>
<td>CSE 8253</td>
<td>Software Design (CSE 4214/6214).</td>
<td>3</td>
</tr>
<tr>
<td>CSE 8263</td>
<td>Software Verification and Validation (CSE 3813 and either CSE4214/6214 or CSE 8253).</td>
<td>3</td>
</tr>
<tr>
<td>CSE 8273</td>
<td>Software Requirements Engineering (CSE 4214/6214 with a grade of C or better).</td>
<td>3</td>
</tr>
<tr>
<td>CSE 9253</td>
<td>Topics in Software Engineering (consent of instructor).</td>
<td>3</td>
</tr>
</tbody>
</table>

**High Performance Computing:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CSE 6153</td>
<td>Data Communications and Computer Networks (CSE 1384 or ECE 3732 and ECE 3724 all with a grade of C or better).</td>
<td>3</td>
</tr>
<tr>
<td>CSE 6163</td>
<td>Designing Parallel Algorithms (CSE 3324 or CSE 4733/6733 with a grade of C or better).</td>
<td>3</td>
</tr>
<tr>
<td>CSE 6743</td>
<td>Operating Systems II (CSE 4733/6733 with a grade of C or better).</td>
<td>3</td>
</tr>
<tr>
<td>CSE 8123</td>
<td>Advanced Computer Organization.</td>
<td>3</td>
</tr>
</tbody>
</table>
CSE 8153 Advanced Data Communications (CSE 4153/6153 or equivalent). 3 hours

CSE 8163 Parallel and Distributing Scientific Computing (CSE 4163/6163). 3 hours

CSE 8733 Advanced Systems Programming (CSE 4733/6733). 3 hours

CSE 9133 Topics in High Performance Computing (consent of instructor). 3 hours

Programming Languages:
CSE 6723 Compiler Construction (Credit or registration in CSE 4713/6713 ). 3 hours

Database Systems:
CSE 6503 Database Management Systems (CSE 2383 and CSE 2813 both with a grade of C or better). 3 hours

CSE 8533 Database System Design (CSE 4503/6503). 3 hours

CSE 8543 Current Issues in Database System Design (CSE 4503/6503). 3 hours

Theory of Computation:
CSE 6833 Introduction to Analysis of Algorithms (CSE 2383, CSE 2813, and MA 2733 all with a grade of C or better). 3 hours

CSE 8813 Formal Languages and Automata Theory (CSE 3813). 3 hours

CSE 8823 Introduction to Combinatorics and Graph Theory (CSE 3813 and MA 1723 or consent of instructor). 3 hours

CSE 8833 Algorithms (CSE 4833/6833). 3 hours

CSE 8843 Complexity of Sequential and Parallel Algorithms (CSE 4833/6833). 3 hours

Computer Graphics and Visualization:
CSE 6413 Principles of Computer Graphics (CSE 2383 with a grade of C or better and MA 3113). 3 hours

CSE 8413 Visualization (CSE 4413/6413). 3 hours

CSE 8433 Advanced Computer Graphics (CSE 4413/6413). 3 hours

CSE 9413 Topics in Computer Graphics and Visualization (consent of instructor). 3 hours

The following courses will not generally apply toward a major in computer science.

CSE 6713 Programming Languages (ECE 3724 and CSE 3813 both with a grade of C or better). 3 hours

CSE 6733 Operating Systems I (CSE 2383 and ECE 3724 both with a grade of C or better). 3 hours

CP 8013 First Work Semester (Approval of Co-op Office, acceptance by employing organization, and admission to the University and to graduate study). 3 hours

CP 8023 Second Work Semester (CP 8013). 3 hours

CP 8033 Third Work Semester (CP 8023). 3 hours

CP 8043 Fourth Work Semester (CP 8033). 3 hours

CP 8053 Fifth Work Semester (CP 8043). 3 hours

Counseling, Educational Psychology, and Special Education
College of Education
Dr. Richard Blackbourn, Dean
Dr. Tom Hosie, Department Head and Graduate Coordinator
508 Allen Hall
662-325-3426
email: hosie@colled.msstate.edu

The Department of Counseling, Educational Psychology, and Special Education offers graduate programs in college counseling,
community counseling, general educational psychology, rehabilitation counseling, school counseling, school psychology, special education, and student affairs in higher education.

Counseling doctoral applications are due February 1. Applications for master’s and educational specialist programs are due March 1. Applications will be considered until full enrollment is attained. Applications for all School Psychology programs are due February 1. Applications may be reviewed at other times for general educational psychology and special education. For further information, write to Graduate Coordinator, Department of Counseling, Educational Psychology and Special Education, P.O. Box 9727, Mississippi State University, MS 39762.

Counseling Programs
Faculty members: Abraham, Bailey, Cavenaugh, Dooley, Hendren, Hermann, Hosie, Keith, Looby, Moore, Olivier, Palmer, Pike, Porter, Sheperis, Thomas, Underwood, Watson, Wells, Wozny, Young

The department prepares students for careers as school counselors, student affairs professionals in higher education, and as counselors in rehabilitation, college counseling centers, and other community agencies. Initial admission applications for the doctoral programs are due February 1. Applications for master’s and educational specialist programs are due March 1. Applications will be considered until full enrollment is attained. Some teaching and research assistantships are available.

Program Accreditations—The M.S. program in rehabilitation counseling is accredited by the Council on Rehabilitation Education (CORE). The M.S. programs in school counseling, college counseling, and community counseling are accredited by the Council on the Accreditation of Counseling and Related Programs (CACREP), as are the doctoral programs in Counseling (PHCE) and in School Counseling (PHSE). The school counseling program also is accredited by the National Council for Accreditation of Teacher Education (NCATE).

Graduate study in Counseling offers preparation in counseling at three levels:
1. The M.S. degree with concentrations in college counseling, community counseling, rehabilitation counseling, school counseling, and student affairs in higher education;
2. The Counseling emphasis for the Educational Specialist (Ed.S.) degree. The Ed.S. degree is designed to provide advanced course work in school counseling, community counseling, rehabilitation counseling, college counseling, and student affairs. Many students enrolled in the Ed.S. degree program are seeking licensure or higher levels of certification.
3. Doctor of Philosophy (Ph.D.) degrees in Counseling and School Counseling.
4. The Doctor of Education (Ed.D.) degree program with an emphasis in Counseling has suspended admissions.

Admission Criteria for Counseling Programs—A student accepted into the M.S. degree programs of Counseling must hold a baccalaureate degree and a minimum GPA of 2.75 on the last 60 hours of undergraduate work. Results of the Graduate Record Examination (GRE) taken within the past five years must be submitted.

A student accepted into the Ed.S. degree program with an emphasis in Counseling must hold a master’s degree in Counseling or related field (as determined by program emphasis), a minimum GPA of 3.30 on all graduate work, a recommended minimum overall GRE score (Verbal + Quantitative) of 800 and an Analytical Writing score of at least 3.0. An applicant for the school counseling emphasis must pass the PRAXIS I with PPST scores of at least 169 in math, 170 in reading, and 172 in writing.

A student accepted into the Doctor of Philosophy (Ph.D.) programs in Counseling or School Counseling must hold a master’s degree from a CACREP-accredited program in Counseling or meet CACREP curriculum requirements as part of the doctoral program of study.

Students admitted to a Counseling program must maintain continuous enrollment. A student who is not enrolled or is inactive for one calendar year must be re-screened for readmission into the department prior to re-enrollment in the University (see the Readmission section under General Requirements for Admission in this publication).

Provisional Admission for Counseling Programs—A student who has not fully met the requirements stipulated by the University and the appropriate department for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. Such student must have as his or initial objective advancement to regular status. A provisional student must receive a 3.00 GPA on the first nine hours of graduate level courses after admission to a degree program at Mississippi State University (transfer hours and unclassified graduate hours will not apply) in order to achieve
regular status. If a 3.00 is not attained, the provisional student may be dismissed from graduate study. While in provisional status, a student is not eligible to hold a graduate assistantship.

Satisfactory Academic Performance—A student in one of the Counseling programs is required to earn a grade of B or better in each skills course before he or she is permitted to progress to the next course in the sequence. These courses include: COE 8023 Counseling Theory; COE 8013 Counseling Skills; COE 8053/8150 Practicum; and COE 8730/8740 Internship. Unsatisfactory performance in graduate level course work is defined as a grade of U, D, or F in any course and/or more than two grades below a B after admission to the program. Unsatisfactory performance also includes failing the master’s comprehensive examination twice, failing the written doctoral preliminary/comprehensive examination twice, failing the oral doctoral preliminary/comprehensive examination twice, or failing the doctoral dissertation defense twice. Any of these or a combination of these failures will result in termination of the student’s graduate program in Counseling.

Program of Study/Completion Requirements—The M.S. degree program in school counseling, rehabilitation counseling, or student affairs in higher education is a planned program consisting of 48 semester hours. The M.S. degree program in community counseling or college counseling is a planned program consisting of 60 semester hours. The Ed.S. degree in Counseling is a planned program consisting of a minimum of 30 semester hours above the master’s degree under the direction of a major advisor and two committee members.

Students accepted into the Ph.D. programs in Counseling must complete at least three academic years of study or a minimum of 98 semester hours beyond the baccalaureate degree.

Prerequisite and Core Courses—All Counseling students seeking the M.S. degree are required to complete successfully EPY 8263; COE 8013; COE 8023; COE 8203; COE 8043; COE 8053/8150; COE 8730/8740; and COE 8063 as a part of their degree programs. Included in these requirements are a 100/600-clock hour practicum and a 600-clock hour internship.

Students in the M.S. community counseling emphasis must also successfully complete COE 6903; COE 8760; COE 8023; COE 8030; and COE 8633 with 18 hours of approved electives. Students in the M.S. rehabilitation counseling emphasis must also successfully complete COE 8553; COE 8530; COE 8303; COE 8533; COE 8543; COE 8553; HED 8113; and six hours of approved electives. Students in the M.S. school counseling emphasis must also complete COE 6903; COE 8903; COE 8073; and six to nine semester hours of approved electives. Students in the college counseling emphasis must also complete COE 8073; COE 8303; COE 8633; COE 8523; COE 8533; COE 8573; HED 8113 or CCL 5333; and six hours of approved electives.

During the Ed.S. degree program, all Counseling students from a non-CACREP program will be required to complete all course work that is required by MSU’s CACREP master’s program in counseling. These courses may be included in the student’s Ed.S. program of study. Students from an academic discipline that was not counseling in nature may be required to complete the equivalent of a master’s degree as part of the Ed.S. program of study. All Ed.S. students will successfully complete EPY 6214 Educational Psychology Statistics (or equivalent statistics course); COE 7000 Directed Individual Study or COE 8000 Thesis/Research, and other additional courses required by the program from the emphasis area. For additional information about the Ed.S. degree with an emphasis in counseling, see the departmental handbook.

All Counseling doctoral students are required to complete successfully COE 8063; EPY 8214; EPY 9213; EPY 9263; HED 8133; COE 9013; COE 9023; COE 9033; COE 9043; COE 9073; COE 9083; COE 9020 (research/dissertation); COE 9740 (300 clock hours), COE 9750 (600 clock hours); one of the following: EDF 9443; EDF 9453; or HI 8923; and 3-15 hours of approved electives. Ph.D. students in Counseling must complete 20 hours of research/dissertation. Ph.D. students in counseling may also complete 12-18 hours in a minor or focus area. For additional information about the Ph.D. degrees in Counseling and in School Counseling, see the departmental handbook.

NOTE: Some program requirements may change for the 2005-2006 academic year.

Doctoral Minor in Counseling—A doctoral minor in counseling will constitute a minimum of 12 hours of counseling course work. A doctoral student will meet with the intended minor
professor for an interview. The minor professor will determine specific courses to be included in the minor program of study. The minor will consist of course work in:

1. Counseling theory,
2. Cultural foundations in counseling,
3. An environmental specialty course, and
4. At least one other counseling course.

**Counselor Education Program Courses**—
Course prerequisites are noted in parentheses.

- **COE 6013** Facilitative Skills Development. 3 hours
- **COE 6023** Introduction to Counseling. 3 hours
- **COE 6050** Seminar for Guidance Counselors. 1-3 hours
- **COE 6303** Rehabilitation of Visually Impaired Persons. 3 hours
- **COE 6313** Resources for Visually Impaired Persons. 3 hours
- **COE 6323** Sensory Aid Technology. 3 hours
- **COE 6353** Assistive Technology in the Rehabilitation Process (COE 6393, COE 8373 or permission of the instructor). 3 hours
- **COE 6363** Introduction to Sign Language. 3 hours
- **COE 6373** Vocational Assessment of Special Needs Persons (COE 8063 or equivalent) (Same as EDX 8653 and TKT 8653). 3 hours
- **COE 6383** Work Samples in Vocational Assessment (COE 8083 or equivalent). 3 hours
- **COE 6513** Paraprofessionals in Student Affairs (permission of instructor). 3 hours
- **COE 6713** Issues in Aging. 3 hours
- **COE 6743** Gender Issues in Counseling. 3 hours
- **COE 6903** Developmental Counseling and Mental Health. 3 hours
- **COE 6990** Special Topics in Counselor Education. 1-9 hours
- **COE 7000** Directed Individual Study. 1-6 hours
- **COE 8000** Research/Thesis. 6 hours
- **COE 8013** Counseling Skills Development (COE 8023). 3 hours
- **COE 8023** Counseling Theory. 3 hours
- **COE 8043** Group Techniques and Procedures (COE 8013, 8023). 3 hours
- **COE 8053** Practicum (COE 8013, 8023, and permission of department). 3 hours
- **COE 8063** Research Techniques for Counselors. 3 hours
- **COE 8073** Cultural Foundations in Counseling. 3 hours
- **COE 8083** Assessment Techniques for Counselors. 3 hours
- **COE 8093** Seminar in Counseling (COE 8023 or equivalent). 3 hours
- **COE 8150** Supervised Academic Year Field Experience I: Practicum. 1-9 hours
- **COE 8163** Spirituality in Counseling. 3 hours
- **COE 8173** Counseling Gifted Students. 3 hours
- **COE 8183** Utilizing Art and Art Therapy in Counseling. 3 hours
- **COE 8203** Placement and Career Development Counseling. 3 hours
- **COE 8293** Supervised Project (permission of department). 3 hours
- **COE 8303** Family Counseling Theory (COE 8023). 3 hours
- **COE 8353** Vocational Rehabilitation Counseling. 3 hours
- **COE 8363** Psychological Aspects of Disability. 3 hours
- **COE 8373** Medical Aspects of Disability. 3 hours
- **COE 8383** Job Placement in Rehabilitation. 3 hours
- **COE 8393** Advanced Practicum (COE 8053 and permission of department). 3 hours
- **COE 8413** Personal, Social, and Work Adjustment Counseling. 3 hours
COE 8523  Student Development Theory.  3 hours
COE 8533  Literature of Student Affairs.  3 hours
COE 8543  Legal Issues.  3 hours
COE 8553  Student Affairs in Higher Education.  3 hours
COE 8573  College Counseling Services.  3 hours
COE 8623  Advanced Legal and Ethical Issues in Counseling.  3 hours
COE 8633  Psychosocial Rehabilitation.  3 hours
COE 8703  Community Counseling.  3 hours
COE 8730  Internship (COE 8053).  1-9 hours
COE 8740  Supervised Academic Year Field Experience II: Internship (permission of department).  1-9 hours
COE 8750  Internship (permission of department).  1-9 hours
COE 8763  Counseling the Sexually Abused Client (COE 8023).  3 hours
COE 8773  Counseling Chemically Dependent Clients.  3 hours
COE 8783  Counseling the Chemically Dependent Family (COE 8773).  3 hours
COE 8813  Counseling Elderly Clients.  3 hours
COE 8903  School Counseling Services.  3 hours
COE 8990  Special Topics in Counselor Education.  1-9 hours
COE 8913  Counseling Children.  3 hours
COE 9000  Research/Dissertation.  20 hours
COE 9013  Counseling Supervision (COE 8730 and COE 8013).  3 hours
COE 9023  Advanced Counseling Theory (COE 8023).  3 hours
COE 9033  Advanced Seminar (COE 8214, EPY 9213).  3 hours
COE 9043  Advanced Groupwork and Systems (COE 8013, 8023, 8043).  3 hours
COE 9053  Advanced Multicultural Counseling (COE 8013, 8023, 8043, 8053, 8063, 8073, 8703).  3 hours
COE 9083  Assessment Techniques in Counseling (EPY 8263, 8214).  3 hours
COE 9730  Internship (permission of department).  1-9 hours
COE 9743  Advanced Doctoral Practicum (permission of department).  3 hours
COE 9750  Internship (permission of department).  1-9 hours

Higher Education:
HED 7000  Directed Individual Study.  1-6 hours
HED 8113  Administration of Student Personnel Services in Higher Education.  3 hours
HED 8123  University and Community College Governance.  3 hours
HED 8133  University and Community College Instruction.  3 hours
HED 8143  Seminar in University and Community College Education.  3 hours
HED 8153  University and Community College Curriculum Development.  3 hours
HED 8710  Practicum in University and Community College.  1-3 hours
HED 8720  Internship in University and Community College Education.  1-3 hours
HED 8990  Special Topics in Higher Education.  1-9 hours

Educational Psychology and School Psychology Programs
Faculty members: Browning, Doggett, Elder, Henington, Johnson, Kane, D. Morse, L. Morse
The Department of Counseling, Educational Psychology, and Special Education offers graduate programs including a Doctor of Philosophy (Ph.D.) in Educational Psychology with emphasis in either Educational Psychology or School Psychology. An Educational Specialist (Ed.S.) is available with a major in Education with a concentration in School Psychology. At the master’s level, major areas of study are general educational psychology and psychometry
Program of Study/Completion Requirements for Educational Psychology—The M.S. degree program in educational psychology with an emphasis in general educational psychology is a planned program consisting of 41-53 semester hours. All Educational Psychology M.S. students are required to complete successfully EPY 8263; EPY 8253 or equivalent; EPY 8293, EPY 8223; EPY 6214, EDF 8363, plus one course in the cognitive area, six hours of EPY electives, and 9-12 hours of related electives. The Ph.D. degree program in Educational Psychology with an emphasis in general educational psychology requires a minimum of 120 semester hours of course work beyond the baccalaureate degree. All Educational Psychology Ph.D. students are required to complete successfully EPY 8523, EPY 8533, EPY 6913, EDF 8353, EPY 8263, EPY 9723, EPY 9313, PSY 6343, EPY 8293, PSY 8613, EPY 8253, PSY 8223, EPY 8223, EPY 6214, EPY 8214, EPY 9213, EPY 8993, EDF 8363, EDF 8373, EPY 9263, EPY 8003, EPY 9020, six hours of PSY-related electives, three hours of EDS electives, nine hours in subspecialty electives, and 12-18 hours of minor area course work. Participation in colloquia is also expected.

NOTE: Some program requirements may change for the 2005-2006 academic year.

School Psychology Programs—The school psychology programs are based on a scientist-practitioner model with a behavioral focus. In addition to training in assessment, training is provided in consultation, academic interventions, behavior assessment, system-wide and individualized positive behavior interventions and supports, applied behavior analysis, and single-case research methodology so students in the program can identify, prevent, and remedy students’ academic, behavioral, and psychosocial problems. The deadline for applications to all programs (Ph.D. and Ed.S.) is February 1. For further information, write to Graduate Coordinator, Department of Counseling, Educational Psychology, and Special Education, P.O. Box 9727, Mississippi State University, MS 39762.
Prerequisite Undergraduate Courses for School Psychology Programs—Students should have the following undergraduate courses before entering the Ed.S. or Ph.D. program in school psychology:

1. Psychological Basis of Behavior (e.g., Introductory Psychology)
2. Developmental Psychology (e.g., child development)
3. Education, Learning, or Cognition (e.g., Theories of Learning).

A student who has not met these prerequisite course requirements may enroll in the program and take these undergraduate courses as he/she progresses through the degree program. As students progress through the Ed.S. or Ph.D. program, they are required to complete the requirements for the M.S. degree in School Psychometry and obtain an AA license in School Psychometry from the Mississippi State Department of Education.

Program Requirements in School Psychology—The M.S. program in psychometry is a non-terminal degree designed to begin in the fall semester and complete in two years. The M.S. in psychometry leads to AA licensure from the Mississippi State Department of Education. This degree is currently a 53-hour program with a 300-hour practicum. All students in this program must successfully complete the PRAXIS I examination en route to the degree and pass the master’s comprehensive examination. Students in the M.S. program are expected to continue education at MSU in pursuit of either the Educational Specialist or doctoral degree. All M.S. students are required to take the following courses: COE 8073, EDF 8363 or equivalent, EDF 9373, EPY 6113, EPY 6214, EPY 8253, EPY 8263, EPY 8293, EPY 8493, EPY 8694, EPY 8703, EPY 8723, EPY 8763, EPY 8773, EPY 8933, EPY 9713, EDF 9443, PSY 6403 or equivalent, Special Education elective, and Counselor Education elective.

NOTE: Some program requirements may change for the 2005-2006 academic year.

The Ed.S. program, a major in Education with a concentration in School Psychology, is accredited by the National Association of School Psychologists (NASP) and the American Psychological Association (APA). Students accepted into the Ph.D. program in School Psychology should either hold a master’s degree in school psychology/psychometry or obtain AA certification in school psychology within the first three years in the program. For students entering the program with only an undergraduate degree, the Ph.D. program in school psychology is designed to be completed in five years. A minimum of 120 semester hours beyond the baccalaureate degree is necessary to earn a doctorate from the Department of Counseling, Educational Psychology, and Special Education. Courses required for the doctoral degree in school psychology include: COE 8073, EDF 8363 or equivalent, EDF 9373, EDF 9443, PSY 6403 or equivalent, PSY 8223, special education electives (six hours), advanced social psychology elective, and course work in a focus area (12 hours). In addition to required course work, doctoral students are required to present a minimum of one refereed presentation at a regional or national conference and one submitted publication to a refereed journal, pass three comprehensive examinations: focus area exam, written and oral examinations, and a dissertation defense. Also, students are required to complete a 2000-hour internship (APA-accredited preferred).

NOTE: Some program requirements may change for the 2005-2006 academic year.

Doctoral Minor in School Psychology—A doctoral minor in school psychology will constitute a minimum of 12 hours of course work in the field of school psychology. The doctoral student will meet with the intended minor
professor for an interview. The minor professor will determine specific courses to be included in the minor program of study. The minor will consist of course work in:

1. Introduction to the field of school psychology,
2. Behavior and personality assessment of children and youth,
3. Typical and atypical development of children and youth, and

Students with a minor in school psychology will be required to pass a minor examination. The school psychology faculty will determine the content of the written minor examination. The minor examination is completed during a four-hour examination period. A student who fails the minor examination cannot apply to take another examination until four months have elapsed from the date of the original examination. Two failures of the minor examination will result in the student's being dropped from further consideration as a student with a minor in school psychology.

School Psychology Program Courses and Other Requirements—Course prerequisites are noted in parentheses.

- **EPY 6113** Behavioral and Cognitive-Behavioral Interventions. 3 hours
- **EPY 6214** Educational and Psychological Statistics. 4 hours
- **EPY 8214** Advanced Educational and Psychological Statistics. 4 hours
- **EPY 8253** Child and Adolescent Development and Psychopathology. 3 hours
- **EPY 8263** Psychological Testing in Educational and Related Settings. 3 hours
- **EPY 8293** Cognitive Development (or equivalent). 3 hours
- **EPY 8493** Child Behavior and Personality Assessment. 3 hours
- **EPY 8550** Supervised Experience in School Psychology. HOURS?
- **EPY 8694** Supervised Experience in School Psychology: Assessment. 4 hours
- **EPY 8703** School Psychology. 3 hours
- **EPY 8723** Individual Assessment for Educational and Related Settings (EPY 6073, EDX 6223 and EPY 8263, or equivalent). 3 hours
- **EPY 8763** Advanced Behavioral and Cognitive-Behavioral Interventions (EPY 8703). 3 hours
- **EPY 8773** Assessment and Interventions for Academic Skills Deficits. 3 hours
- **EPY 8780** Internship in School Psychology (Ed.S. level). 12 hours
- **EPY 8794** Supervised Experiences in School Psychology: Consultation. 4 hours
- **EPY 8890** Supervised Experiences in School Psychology (Clinic/Supervision). 1-6 hours
- **EPY 8933** Integrated Psycho-Educational Assessment (EPY 8723). 3 hours
- **EPY 8993** Special Topics in Educational Psychology. 3 hours
- **EPY 9000** Research/Dissertation. 20 hours
- **EPY 9213** Advanced Analysis in Educational Research. 3 hours
- **EPY 9703** Contemporary, Legal, Ethical, and Professional Issues in School Psychology (permission of the instructor). 3 hours
- **EPY 9713** Advanced Psychological Consultation: Theory and Practice (permission of the instructor and EPY 8214 or equivalent). 3 hours
- **EPY 9730** Internship in School Psychology (Doctoral Level). 18 hours
- **COE ----** Counseling elective
- **COE 8073** Cultural Foundations in Counseling. 3 hours
- **EDF 8363** Function and Methods of Research in Education. 3 hours
- **EDF 9373** Educational Research Design. 3 hours
- **EDF 9443** Single Subject Research Designs in Education. 3 hours
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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PSY 6403</td>
<td>Physiological Psychology (or other biology-based course). 3 hours</td>
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<tr>
<td>PSY 8223</td>
<td>Systems and Theories of Psychology. 3 hours</td>
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<tr>
<td>EDX ----</td>
<td>Special Education Elective A</td>
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<td>EDX ----</td>
<td>Special Education Elective B</td>
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<tr>
<td>PSY ----</td>
<td>Advanced Social Psychology Elective</td>
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<tr>
<td>PSY 8493</td>
<td>Personality Assessment in Educational and Related Settings (EPY 8263 and EPY 8723 or consent of the instructor). 3 hours</td>
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<tr>
<td>EPY 8523</td>
<td>Psychology of the Gifted. 3 hours</td>
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<tr>
<td>EPY 8533</td>
<td>Practicum in Teaching Educational Psychology (EPY 8243). 3 hours</td>
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<td>EPY 8703</td>
<td>School Psychology. 3 hours</td>
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<tr>
<td>EPY 8723</td>
<td>Individual Assessment for Educational and Related Settings (EPY 6073 and EPY 8263 or equivalent). 3 hours</td>
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<tr>
<td>EPY 8763</td>
<td>Seminar in Psychological Interventions in Educational and related Settings (EPY 8703). 3 hours</td>
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<tr>
<td>EPY 8773</td>
<td>Assessment and Interventions for Academic Skills Deficits. 3 hours</td>
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<td>EPY 8780</td>
<td>Internship in School Psychology (consent of instructor). 3-6 hours</td>
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<tr>
<td>EPY 8790</td>
<td>Supervised Experiences in School Psychology (consent of instructor). 3-6 hours</td>
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<td>EPY 8933</td>
<td>Interpretation of Intelligence/Psychometric Instruments (EPY 8723). 3 hours</td>
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<td>EPY 8990</td>
<td>Special Topics in Educational Psychology. 1-9 hours</td>
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<td>EPY 9263</td>
<td>Applied Research Seminar (EPY 6214, EDF 8363, and EDF 9373). 3 hours</td>
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<td>EPY 9723</td>
<td>Seminar in Contemporary School Psychology (approval of instructor). 3 hours</td>
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<td>EPY 9000</td>
<td>Research/Dissertation. 20 hours</td>
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<td>EPY 9213</td>
<td>Advanced Analysis in Educational Research (EPY 4214/6214). 3 hours</td>
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<td>EPY 9313</td>
<td>Educational Evaluation Methods (EPY 8214 and EDF 9373 or equivalent course work). 3 hours</td>
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<td>EPY 9703</td>
<td>Contemporary, Legal, Ethical, and Professional Issues in School and Educational Psychology (permission of the instructor). 3 hours</td>
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</table>

**Focus-Area Requirements:** 12 hours

**Educational Psychology Courses**—Course prerequisites are noted in parentheses.

- **EPY 6033** Application of Learning Theories in Educational and Related Settings. 3 hours
- **EPY 6053** Psychology and Education of the Mentally Retarded. 3 hours
- **EPY 6073** Personality Adjustment in Educational and Related Settings. 3 hours
- **EPY 6113** Behavioral and Cognitive Behavioral Interventions. 3 hours
- **EPY 6214** Educational and Psychological statistics. 4 hours
- **EPY 6313** Measurement and Evaluation. 4 hours
- **EPY 6990** Special Topics in Educational Psychology. 1-9 hours
- **EPY 7000** Directed Individual Study. 1-6 hours
- **EPY 8000** Research/Thesis. 6 hours
- **EPY 8214** Advanced Educational and Psychological Statistics (EPY 4214/6214 or equivalent). 4 hours
- **EPY 8223** Psychological Foundations of Education. 3 hours
- **EPY 8253** Advanced Child and Adolescent Psychology. 3 hours
- **EPY 8263** Psychological Testing in Educational and Related Settings. 3 hours
- **EPY 8293** Cognitive Development. 3 hours
EPY 9713 Advanced Psychological Consulting: Theory and Practice (permission of the instructor and EPY 8214 or equivalent). 3 hours

EPY 9730 Doctoral Internship in School Psychology (consent of instructor). 3-6 hours

Special Education Programs
Faculty Members: Arnault, Coffey, Devlin, Elrod, Mattox, Obringer.

Admission Criteria for Each Degree—
Graduate work in Special Education is offered at the master’s and educational specialist’s level. A student applying for admission into either program should complete an admission packet and return it to the Office of Graduate Studies by the deadlines listed in this publication. A complete packet consists of: an application to graduate school; documentation of obtaining or being able to obtain a Class A teaching certificate (exceptions include those seeking Special Education certification only or the Special Education non-certified Emotional/Behavioral Disorder option); official GRE scores (must have been taken within the past five years, with a recommended combined score of 1000 on verbal and quantitative); three letters of recommendation; statement of purpose (must include number of years teaching/work experience); and two writing samples.

Provisional Admission—A student who has not fully met the requirements stipulated by the University and appropriate program of study may be granted admission as a degree-seeking student with provisional status. Such student must have as his or her initial objective advancement to regular status. A provisional student must receive a 3.00 GPA on the first nine hours of graduate level courses after admission to a degree program at Mississippi State University (transfer hours and unclassified hours will not apply) in order to achieve regular status. If a 3.00 GPA is not attained, the provisional student may be dismissed from graduate study. While in provisional status, the student is not eligible to hold a graduate assistantship.

Satisfactory/Unsatisfactory Progress—
Continuous enrollment in the University or in a specific graduate program is dependent upon a satisfactory evaluation of academic performance and progress toward the completion of a specified degree. A student’s progress is considered satisfactory unless judged to be unsatisfactory by the department offering the program, and/or the Office of Graduate studies.

According to MSU policy, unsatisfactory performance is defined as the failure to maintain a B average in graduate courses attempted after admission to the program, a grade of U, D, or F in any course, more than two grades below a B, failure of the comprehensive/preliminary examination, an unsatisfactory evaluation of a thesis or dissertation, failure of the research defense, or any other failure of a required component of one’s program of study. Any one of these, or any combination of these, may constitute the basis for the termination of a student’s graduate study in a degree program; individual programs have the right to establish their own criteria. Such criteria may be higher but cannot be lower than those set by the graduate school.

Any student in the College of Education making more than two grades of C or lower in courses taken for graduate credit may be forced to withdraw from graduate school upon recommendation of the major professor, the departmental graduate coordinator, and the Dean of the College of Education. [it is the major professor’s responsibility to insure that any student who has performed unsatisfactorily be recommended for termination from the degree program before the beginning of the subsequent semester.] The administrative authorities of the University will withhold the credits and readmission of any student who fails to pay all of his/her financial obligations to the University by the end of each semester and/or at the time of withdrawal. The student’s records may be released when the indebtedness is paid in full.

Graduate programs in special education are available for the master’s and educational specialist degrees. The programs are specifically intended to prepare classroom and resource teachers for public schools and institutions for the disabled. Clinic and practicum situations are an integral segment of the curriculum.

Graduate Courses—Course prerequisites are noted in parentheses.
EDX 6113 Diagnostic-Prescriptive Methods and Materials for Early Childhood Disabled. 3 hours

EDX 6123 Diagnostic-Prescriptive Methods and Materials for Elementary Age Disabled. 3 hours

EDX 6133 Diagnostic-Prescriptive Methods and Materials for Secondary Age Disabled [Same as TKT 6133 and COE 6133]. 3 hours
EDX 6353 Assistive Technology in Special Education. 3 hours
EDX 6503 Teaching the Severely and Profoundly Impaired Child. 3 hours
EDX 6603 Children and Youth with Physical Handicaps/Multiple Disabilities. 3 hours
EDX 6613 Teaching Children and Youth with Physical/Multiple Disabilities. 3 hours
EDX 6623 Curricular and Mobility Adaptations for Physical/Multiple Disabilities. 3 hours
EDX 6953 Introduction to Sign Language [same as COE 4353/6353]. 3 hours
EDX 6990 Special Topics in Special Education. 1-9 hours
EDX 7000 Directed Individual Study. 1-3 hours
EDX 8000 Research/Thesis. 6 hours
EDX 8103 Advanced Contingency Management. 3 hours
EDX 8123 Organization and Supervision of Special Education. 3 hours
EDX 8133 Readings and Research in Exceptional Education. 3 hours
EDX 8143 Early Education for the Disabled. 3 hours
EDX 8153 Language Development-Assessment and Remediation. 3 hours
EDX 8163 Teaching Strategies for the Gifted. 3 hours
EDX 8173 Special Education in the Regular Classroom. 3 hours
EDX 8183 Seminar in Learning Disabilities (EDX 3203 or equivalent). 3 hours
EDX 8203 Practicum: Diagnosis of Special Education Populations. 3 hours
EDX 8213 Practicum: Remediation of Special Education Populations. 3 hours
EDX 8223 Supervision: Diagnosis of the Educationally Disabled Practicum. 3 hours
EDX 8303 Seminar in Mental Retardation. 3 hours
EDX 8333 Placement Services and Techniques [same as COE 8923]. 3 hours
EDX 8393 Seminar in Education for the Emotionally Disabled (EDX 8403). 3 hours
EDX 8403 Teaching the Emotionally Disabled. 3 hours
EDX 8413 Personal, Social and Work Adjustment Counseling [same as COE 8413 and TKT 8413]. 3 hours
EDX 8653 Vocational Assessment of Special Needs Persons (COE 8063 or Equivalent [same as TKT 8653 and COE 6373]. 3 hours
EDX 8663 Work Samples in Vocational Assessment (COE 8093 or equivalent and COE 6373 or COE 8033 or consent of instructor). 3 hours
EDX 8780 Internship in Special Education. 3-6 hours
EDX 8990 Special Topics in Special Education. 1-9 hours
Curriculum and Instruction
College of Education
Dr. Richard Blackbourn, Dean
Dr. Linda T. Coats, Graduate Coordinator
and Interim Department Head
Box 9705
MSU, MS  39762
662-325-3703
mmj2@ra.msstate.edu

Refer to the Department of Curriculum and Instruction Graduate Handbook for updates and additional graduate information: www.educ.msstate.edu/cni.

Admission Criteria for Each Degree:
General Admission Criteria—The Department of Curriculum and Instruction offers the Master of Science degree in Elementary Education and in Secondary Education. It also offers the Master of Arts in Teaching (MAT-S) degree. The Educational Specialist and the Doctor of Education degrees may be earned with a program emphasis in Elementary Education or Secondary Education. The Doctor of Philosophy in Elementary Education, Secondary Education, and Curriculum and Instruction is also offered. Students applying for admission to graduate programs in the Department of Curriculum and Instruction must hold or be eligible to hold a Class A teaching certificate. For further information concerning degrees, the College of Education Graduate Program Handbook and the Department of Curriculum and Instruction Graduate Handbook (www.educ.msstate.edu/cni/cni.html) should be consulted.

A student applying for admission into the Elementary and Secondary programs in Curriculum and Instruction must submit the complete application packet to the Office of Graduate Studies no later than April 1 for summer, July 1 for fall, and November 1 for spring. First-time applications not meeting the admission deadline will be held for two semesters for review. After that time, the applicant must reapply.

A complete admission packet consists of: application to graduate school; documentation of Class A certificate; official GRE scores; three letters of recommendation; statement of purpose (must include number of years of teaching experience); and a writing sample for students applying to a doctoral program (see C&I web page for writing sample guidelines). Also required are official transcripts from each college or university attended. The admission criteria form used by the Program Areas for admission decisions can be found in the Curriculum and Instruction Handbook. Minimal grade point averages required for admission to each degree are as follows:

- Master’s degree: minimum GPA 2.75 on last half of baccalaureate degree;
- Educational Specialist degree: minimum GPA 3.20 on master’s degree;
- Doctoral degree: minimum GPA 3.40 on previous graduate degree(s), two writing samples, three years teaching experience, curriculum vitae or résumé and successful completion of interview.

All new students admitted into a graduate program in C&I must attend an orientation. Refer to the Curriculum and Instruction Graduate Handbook for the dates and details.

Program of Study for Each Degree:
The Master of Science degree in Elementary Education (with emphasis on literacy) requires a minimum of 36 semester hours of course work beyond the bachelor’s degree including EDF 8353 and EDF 8363 and a comprehensive exam. The Master of Science degree in Secondary Education requires a minimum of 36 semester hours of course work beyond the bachelor’s degree including EDF 8353 and EDF 8363 and a choice of a comprehensive exam or research project. The Master of Arts degree in Teaching-Secondary (MAT-S) requires a minimum of 36 semester hours of course work beyond the bachelor’s degree including EDF 8613 and EDF 8363 and a comprehensive exam. A student’s program of study for the Master’s degree must be filed in the Department of Curriculum and Instruction (Allen 310) by the end of the first semester after the initial meeting with the advisor. At least 15 hours of course work on the program of study must be 8000-level courses.

The Master of Arts in Teaching-Secondary (MAT-S) is an alternate route secondary licensure program of study that consists of 36 semester hours of graduate-level course work. It is designed for a candidate with a bachelor’s degree in a content discipline or with significant higher-level course work. In addition to the criteria for admission to a Master of Science degree program, MAT-S candidates must pass the Praxis I and Praxis II-Specialty Area Test. See the College of Education website for additional information related to the MAT-S degree.

The Educational Specialist degree with emphasis in Elementary or Secondary Education requires
a minimum of 30 hours of course work above the Master’s degree including EPY 6214 and EDE/EDS/EDX 7003 and a comprehensive examination. Specialist students must submit the program of study before the first 15 hours are completed. At least 15 hours of course work on the program of study must be 8000-level courses.

**Elementary Education Specialist Program of Study:**
- **EPY 6214** Educational & Psychological Statistics (or equivalent).
- **EDE 8000** Thesis research. 6 hours  
  or  
  **EDE 7000** Directed Individual Study. 3 hours

Elementary Education course work (see advisor).  
9-24 hours  
Supporting area course work. 0-12 hours

**Secondary Education Specialist Program of Study:**
- **EPY 6214** Educational & Psychological Statistics (or equivalent).
- **EDS 8000** Thesis research. 6 hours  
  or  
  **EDS 7000** Directed Individual Study. 3 hours

Secondary Education course work (see advisor).  
9-24 hours  
Supporting area course work (from cognate area).  
0-12 hours

The specialist program committee should be composed of at least three members. Two of the members of the committee will represent the department or the area of program emphasis. If a minor is being sought, there must be a minor professor.

**NOTE:** For secondary education majors, the committee member from outside the department is usually from the appropriate Arts and Sciences cognate area.

The Doctor of Education Degree with an emphasis in Elementary or Secondary Education requires a minimum of 90 semester hours of course work beyond the bachelor’s degree including EPY 8214, EDF 8363, EDF 9373, EDF 9313, EPY 9213, EPY 8223, HED 8123 or HED 8133, and EPY 9263 or EDF 9443 or EDF 9453; demonstration of competence in the application of research and statistics; a written and oral preliminary examination; satisfactory completion of a research skill requirement; and a dissertation. The student’s doctoral plan of study must be submitted to the Curriculum and Instruction Graduate Office (Allen 310) with all committee members’ signatures before the first 15 hours are completed. At least two-thirds of the total hours of coursework on the plan of study, exclusive of dissertation hours, must be 8000 level courses.

The doctoral program committee should be composed of at least four members (refer to the Department of Curriculum and Instruction Graduate Handbook for committee selection guidelines):
1. Major professor/dissertation director—may be same person;  
2. Two committee members to represent Curriculum and Instruction; and  
3. Two members should be from a department other than Curriculum and Instruction. This committee member may be from another department within the College of Education or from a department outside the College of Education, depending upon the selected area of program emphasis. The selection of all committee members should be guided by the student's area of interest and dissertation topic. One member must be from the minor area.

**NOTE:** For secondary education majors, one of the committee members from outside the department is usually from the appropriate Arts and Sciences cognate area.

The written comprehensive examination for the Master’s and Educational Specialist degrees are scheduled three times a year. The dates are the first Wednesday of March, June, and October. Students can take comps when they are within six hours of completing their degree, have an GPA of 3.00 after admission to the program, and have completed the courses that will be covered on the comprehensive exam. For complete details, assessment criteria, online registration, and guidelines, review the Curriculum and Instruction Graduate Handbook. For eligibility requirements for the doctoral written exam, refer to the COE Doctoral Students’ Guide and the Curriculum and Instruction Graduate Handbook.

**FOR SECONDARY MASTER’S ONLY:** A student may choose to complete a research project instead of taking the written comprehensive examination. The research
The option should be of special interest to students who have an interest in publishing and/or plan to pursue a Ph.D. or Ed.D degree. See the Curriculum and Instruction Graduate Handbook for requirements.

There is no general residency requirement for the master’s degree. Residency for the specialist degree is a minimum of 30 weeks. A degree cannot be completed in two summer sessions or equivalent, nor in one regular semester and one summer session.

Residency requirements for the doctoral degree require a student to complete one-half of required course work and all dissertation credits from Mississippi State University. At some time in the doctoral career, the student is required to devote one full semester (nine hours) or two semesters half-time (six hours each) in residence at Mississippi State University for the graduate program. Only three research hours may be used to meet this requirement.

Contingent Admission—There are no contingent admissions EXCEPT for those students who are applying the same semester they are graduating with another degree, the overall GPA is pending. Otherwise, the admission packet must be complete and all admission requirements met before admission will be considered. All doctoral applicants must successfully complete the doctoral interview BEFORE an admission decision will be made.

Provisional Admission—The Department of Curriculum and Instruction follows the University’s Provisional Admission policy (refer to the admission section of this publication for the policy and criteria).

Academic Performance—The Department of Curriculum and Instruction follows the College of Education definition of satisfactory performance in graduate level course work as a grade of S on thesis/dissertation hours and a GPA of at least 3.00 on all course work attempted after admission to the program. Any of the following or combination of the following will result in termination of the student’s graduate program in the Department of Curriculum and Instruction: three grades below a B, a GPA below 3.00 after admission to the program, two grades of D or F, failure of the master’s comprehensive examination twice, failure of the written doctoral preliminary examination twice, failure of the oral doctoral preliminary examination twice, or failure of the doctoral dissertation defense twice. The student and/or advisor will be notified in writing when the first and second unsatisfactory grades are earned. When the student earns another unsatisfactory grade, the Graduate Coordinator will petition to the Dean of the College of Education to dismiss the student from the graduate program.

If a student makes a grade below a B in a course that is on his or her plan of study, the course cannot be dropped from the plan of study. When the grade is a D or F, the student must retake the course, and only one course can be retaken for each degree. A student cannot retake a course in which a grade of C or higher is earned. If a student earns the third grade below a B the semester of graduation, he or she must take a similar course in the content area (selected by the advisor) and earn a grade of B or better in order to meet graduation requirements.

Completion Requirements—All graduate students submitting a thesis or dissertation must attend the thesis/dissertation workshops conducted by the library for the Department of Curriculum and Instruction within the year in which they are completing the dissertation before receiving the graduate coordinator’s signature. All doctoral students must make a professional presentation and/or submit a journal article for publication in order to meet graduation requirements (Refer to the COE Doctoral Students’ Guide for additional options).

Elementary Education—Course prerequisites are noted in parentheses.

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EDE 6990</td>
<td>Special Topics in Elementary Education</td>
<td>1-9</td>
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<td>EDE 7000</td>
<td>Directed Individual Study</td>
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<td>EDE 8000</td>
<td>Research/Thesis</td>
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<td>EDE 8423</td>
<td>Elementary School Methods</td>
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<td>The Elementary School Curriculum</td>
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<td>EDE 8463</td>
<td>Readings and Research in Children’s Literature</td>
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<td>EDE 8473</td>
<td>The Elementary Social Studies Curriculum</td>
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<td>EDE 8493</td>
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<td>EDE 8623</td>
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<td>EDE 8893</td>
<td>Readings in Elementary Education (Doctoral or Specialist standing or consent of instructor)</td>
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<td>Research/Dissertation. 20 hours</td>
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<td>EDE 9413</td>
<td>Practicum in College Teaching. 3 hours</td>
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<td>Early Childhood Education:</td>
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<td>EDE 8513</td>
<td>Curriculum and Program Developments in Early Childhood Education. 3 hours</td>
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<td>Practicum: Language Arts and Literacy Development in Early Childhood Education (EDE 4133, RDG 3113, RDG 3213, or the equivalent). 3 hours</td>
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<td>Behavioral Experiences in Early Childhood Education. 3 hours</td>
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<td>EDE 8543</td>
<td>Mathematics Experiences in Early Childhood Education (EDE 4123 or the equivalent). 3 hours</td>
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<td>Research Practicum in Early Childhood Education (EDE 8513, EDE 8523, EDE 8533, EDE 8543). 1-6 hours</td>
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<td>Reading Comprehension Process and Instruction. 3 hours</td>
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<td>Diagnosis of Reading Problems. 3 hours</td>
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<td>Issues and Innovations in Reading. 3 hours</td>
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<td><strong>Foundation and Core:</strong></td>
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<td>EDF 8323</td>
<td>Comparative Education. 3 hours</td>
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<td>EDF 8353</td>
<td>Principles of Curriculum Development. 3 hours</td>
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<td>Function and Methods of Research in Education. 3 hours</td>
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<td>EDF 8383</td>
<td>Issues in Education. 3 hours</td>
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<td>History of Education in the United States. 3 hours</td>
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<td>EDF 9313</td>
<td>Philosophy of Education. 3 hours</td>
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<td>EDF 9353</td>
<td>Interdisciplinary Seminar in Education. 3 hours</td>
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<td>EDF 9373</td>
<td>Educational Research Design. 3 hours</td>
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<td>EDF 9443</td>
<td>Single-Subject Research Designs for Education. 3 hours</td>
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<tr>
<td>EDF 9453</td>
<td>Qualitative Techniques in Educational Research (EPY 8214, EDF 8363, EDF 8373). 3 hours</td>
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<td><strong>Secondary Education:</strong></td>
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<td>EDS 6633</td>
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<td>EDS 6673</td>
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EDS 6990 Special Topics in Secondary Education. 1-9 hours
EDS 7000 Directed Individual Study. 1-3 hours
EDS 8000 Research/Thesis. 6 hours
EDS 8103 Advanced Methodologies in Middle and Secondary Education (TKT 1273 or equivalent). 3 hours
EDS 8613 Middle and Secondary School Curriculum. 3 hours
EDS 8633 Problems of Secondary Education. 3 hours
EDS 8643 Directed Reading in Secondary Education. 3 hours
EDS 8713 Curriculum Adjustments. 3 hours
EDS 8990 Special Topics in Secondary Education. 3 hours
EDS 9000 Research/Dissertation. 20 hours
EDS 9413 Practicum in College Teaching. 3 hours

Content-area courses (6 hours) in the appropriate licensure area.

Dairy Science
(See Animal and Dairy Sciences)

Economics
(See Finance and Economics for information on the M.A. degree.
See Applied Economics for information on the Ph.D. degree.)

Education
College of Education
Dr. Richard Blackbourn, Dean

The College of Education offers the Educational Specialist, Doctor of Education, and Doctor of Philosophy degrees in Education. Concentration areas for these degrees are:

Educational Specialist Degree Emphases:
• Agricultural and Extension Education
• Community College
• Counselor Education
• Elementary Education
• School Administration
• School Psychology
• Secondary Education
• Special Education
• Technology

Doctor of Education Degree Emphases:
• Agricultural and Extension Education
• Counselor Education
• Elementary Education
• School Administration
• Secondary Education
• Technology

Doctor of Philosophy Degree Emphases:
• Agricultural and Extension Education
• Elementary Education
• Secondary Education
• Technology

Detailed information for each emphasis area can be found in the individual department’s listing in this publication.
Educational Administration
(See Instructional Systems, Leadership, and Workforce Development)

Educational Leadership
(See Instructional Systems, Leadership, and Workforce Development)

Electrical and Computer Engineering
James Worth Bagley College of Engineering
Dr. Kirk Schulz, Dean
Dr. Roger L. King, Associate Dean for Research and Graduate Studies
Dr. Jim Harden, Department Head
Dr. Nicolas H. Younan, Graduate Coordinator
216 Simrall Building
Box 9571
Mississippi State, MS 39762
Phone: 662-325-3912
Fax: 662-325-2298
E-mail: eegpd@ece.msstate.edu
URL: http://www.ece.msstate.edu

Graduate study is offered in the Department of Electrical and Computer Engineering leading to the degrees of Master of Science and Doctor of Philosophy in both electrical engineering and computer engineering. Major areas of study include, but are not limited to, Communications, Controls, Computer Architecture and Digital Computing, Electromagnetics, Power and High Voltage, Microelectronics and VLSI, and Signal, Image, and Speech Processing. Research facilities include the MSU/Engineering Research Center, the MSU High Voltage Laboratory, the Emerging Materials Research Laboratory, the Microsystems Prototyping Laboratory, the Mississippi Center for Advanced Semiconductor Prototyping, and the Institute for Signal and Information Processing.

Admission Criteria—In addition to meeting the requirements set forth by the Office of Graduate Studies in the admission section of this publication, the basic requirements of the department for admission to the graduate program include a 3.00/4.00 GPA on a B.S. degree for admission to the M.S. degree program, a 3.50/4.00 GPA on a B.S. or M.S. degree for admission to the Ph.D. degree program, a 550 TOEFL score for the student whose native language is not English (unless he/she earned a degree from a U.S. institution), and a satisfactory performance on the GRE for students with a degree from a program that is not EAC/ABET accredited.

Program of Study—It is the responsibility of each graduate student to develop a suitable program of graduate study in conjunction with the student’s major advisor and advisory committee. Minimum requirements are 30 credit hours for the thesis option (24 credit hours of course work and six credit hours of thesis research) and 33 credit hours for the non-thesis option (optional project) past the B.S. for a Master of Science degree.

For the Ph.D. degree, a student is required to complete 60 credit hours past the M.S., typically 30 credit hours of course work and 30 credit hours of dissertation research. Note that CPE majors must have at least 12 credit hours of CSE and ECE courses (CSE 6113 may not be used for a CSE credit).

Provisional Admission—A student who does not meet the GPA requirements (3.00 for the M.S. degree and 3.50 for the Ph.D. degree) may be admitted to the appropriate program on a provisional basis. If a provisional admission is granted, the student is required to achieve a GPA of 3.00 on the first nine credit hours of graduate courses (transfer credit and unclassified graduate credit may not be used). If a GPA of 3.00 is not achieved, the student will be terminated from the graduate program. Furthermore, a student who is admitted provisionally is not eligible for financial support (TA, RA, fellowships, wages, etc.).

Academic Performance—To be in good academic standing, a student is expected to maintain a cumulative graduate GPA of 3.00 after admission to the program. If a graduate student's cumulative GPA falls below 3.00, the student will
be placed on probation. While on probation, a student will not receive any type of financial support (TA, RA, fellowships, wages, etc.) and is required to raise his/her cumulative GPA to 3.00 by the end of the following semester of enrollment. While on probation, the student must enroll in nine credit hours of course work; Directed Individual Study courses are excluded.

A student will be dismissed from the graduate program if:

• In any subsequent semester the student's cumulative GPA falls again below a 3.00.
• A student makes grades of D, F, U, or more than two Cs.
• A student fails to take a remedial course in the required semester.

In case of a dismissal from the graduate program, a student may appeal his/her academic status according to the following procedure:

• Within four weeks of being notified of the official dismissal, the student must present the request and related explanation in writing to the department head and/or graduate coordinator. The department head/coordinate will review the appeal with the appropriate departmental committee, the graduate committee for the EE program and the CPE steering committee for the CPE program, and render a recommendation.
• If the appeal at the departmental level is unsuccessful, a student may then appeal to the college dean.
• If the appeal at the college level is unsuccessful, the student may then appeal to the Provost and Vice President for Academic Affairs.

Prerequisite and Core Courses:

Electrical Engineering—It is required that all graduate students take the following courses for credit as required remedial undergraduate course work unless transcript shows equivalent credit. Additional courses may be required.

- ECE 3714 Digital Devices and Laboratory
- ECE 3724 Microprocessors and Laboratory
- ECE 4743 Digital System Design

Computer Engineering—The basic undergraduate background requirements for regular admission should include the material contained in the following courses and associated laboratories:

- CSE 1384 Intermediate Computer Programming
- CSE 2383 Data Structures
- CSE 4833 Algorithms
- CSE 4733 Operating Systems
- ECE 3714 Digital Devices and Laboratory
- ECE 3724 Microprocessors I and Laboratory
- ECE 3413 Electronic Circuits
- ECE 3424 Intermediate Electronic Circuits
- ECE 3434 Advanced Electronic Circuits
- ECE 3163 Signals and Systems
- ECE 4713 Computer Architecture
- ECE 4743 Digital System Design

Students without this background will be required to complete appropriate remedial courses:

- CSE 1384 Intermediate Computer Programming
- CSE 2383 Data Structures
- CSE 4833 Algorithms
- CSE 4733 Operating Systems
- ECE 3714 Digital Devices and Laboratory
- ECE 3724 Microprocessors and Laboratory
- ECE 3144 Circuit Analysis I
- ECE 3153 Circuit Analysis II
- ECE 3163 Signals and Systems

Completion Requirements:

M.S. (Non-Thesis)—A student pursuing a non-thesis option is required to pass an oral examination. The oral examination consists of a comprehensive exam related to all the graduate level courses taken toward the degree.

M.S. (Thesis)—For the thesis option, a student is required to successfully defend his/her thesis. It is the responsibility of the major advisor to file a notice of the intent of the thesis defense with the Office of Graduate Studies at least one week prior to the examination. The student must also complete the M.S. Thesis Defense form (http://www.ece.msstate.edu/grad/forms.html) and return it to the program graduate coordinator at least one week prior to scheduling the thesis defense. This form requires the student to post a notice of his or her oral examination one week prior to the exam stating the time, date, the room, and the title of the thesis and an abstract. This notice should be posted:

(a) using email directed to faculty and graduate student aliases and
(b) to the departmental Website. The thesis must be read and approved by the Major Professor and presented to the remaining committee readers one week before the scheduled oral examinations.

Ph.D.—It is the responsibility of the major professor/dissertation director to file a notice of the intent of the dissertation defense with the Office of Graduate Studies at least two weeks prior to the examination. The student must also complete the Ph.D. dissertation defense form, available at http://www.msstate.edu/grad/
return it to the program graduate coordinator at least two weeks prior to scheduling the final defense. This form verifies that the major advisor/dissertation director has read and approved the dissertation and that finished copies (not a draft) have been provided to the committee, graduate coordinator and department head two weeks prior to the defense date. It also requires department, college, and web advertisement two weeks prior to the defense. A copy of the dissertation must be posted to the Web. The student is required to post a notice of the time, date, room, and the title of his/her dissertation and an abstract. This notice should be posted:
(a) using email directed to faculty and graduate student aliases,
(b) to the College, and
(c) to the departmental Web site.

**Graduate Courses**—Course prerequisites are noted in parentheses.

**Electrical Engineering:**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ECE 6223</td>
<td>Error Correcting Digital Codes (senior or graduate standing).</td>
<td>3 hours</td>
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<tr>
<td>ECE 6243</td>
<td>Introduction to Physical Electronics (ECE 3243).</td>
<td>3 hours</td>
</tr>
<tr>
<td>ECE 6263</td>
<td>Principles of VLSI Design (ECE 3724 and credit or registration in ECE 4243).</td>
<td>3 hours</td>
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<tr>
<td>ECE 6273</td>
<td>Microelectronics Device Design (ECE 3243).</td>
<td>3 hours</td>
</tr>
<tr>
<td>ECE 6283</td>
<td>Microelectronics Process Design (ECE 3243).</td>
<td>3 hours</td>
</tr>
<tr>
<td>ECE 6333</td>
<td>Microwave Theory (ECE 3324).</td>
<td>3 hours</td>
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<tr>
<td>ECE 6343</td>
<td>Electro-Optics (ECE 3324 and credit or registration in MA 5213/7213).</td>
<td>3 hours</td>
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<tr>
<td>ECE 6413</td>
<td>Digital Signal Processing (ECE 3163).</td>
<td>3 hours</td>
</tr>
<tr>
<td>CE 6423</td>
<td>Introduction to Remote Sensing Technologies (senior or graduate standing or consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>ECE 6473</td>
<td>Introduction to Computer Arithmetic (ECE 3724/CS 3124 and credit or registration in ECE 4713/6713 CS 4113/6113).</td>
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<td>ECE 6613</td>
<td>Power Transmission Systems (credit or registration in ECE 3414). 3 hours</td>
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<td>ECE 6633</td>
<td>Power Distribution Systems (credit or registration in ECE 3414). 3 hours</td>
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<td>ECE 6643</td>
<td>Power Systems Relaying and Control (ECE 4613/6613). 3 hours</td>
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<td>ECE 6663</td>
<td>Insulation Coordination in Electric Power Systems (credit or registration in ECE 4613/6613). 3 hours</td>
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<td>ECE 6713</td>
<td>Computer Architecture (ECE 3724/CS 3124). 3 hours</td>
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<tr>
<td>ECE 6723</td>
<td>Microprocessors II (ECE 3724/CS 3124). 3 hours</td>
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<tr>
<td>ECE 6733</td>
<td>Advanced Microprocessors (credit or registration in ECE 3724 and ECE 3254).</td>
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<td>ECE 6743</td>
<td>Digital Systems Design (ECE 3724, credit or registration in ECE 3243).</td>
<td>3 hours</td>
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<td>ECE 6813</td>
<td>Communications Theory (ECE 3163).</td>
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<td>ECE 6913</td>
<td>Feedback Control Systems I (ECE 3163). 3 hours</td>
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<tr>
<td>ECE 6923</td>
<td>Feedback Control Systems II (ECE 3163). 3 hours</td>
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<td>ECE 6933</td>
<td>State Space Design and Instrumentation (ECE 3163). 3 hours</td>
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<td>ECE 6990</td>
<td>Special Topics in Electrical Engineering. 1-9 hours</td>
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<td>ECE 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
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<td>ECE 8000</td>
<td>Research/Thesis. 6 hours</td>
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<td>ECE 8013</td>
<td>Switching Theory I (ECE 3254, ECE 4713/6713/CS 4113/6113 or consent of instructor). 3 hours</td>
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<td>ECE 8023</td>
<td>Switching Theory II (ECE 8013). 3 hours</td>
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<tr>
<td>ECE 8053</td>
<td>Introduction to Computer Arithmetic (ECE 4263/6263). 3 hours</td>
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ECE 8063 Parallel Computing Architectures I (ECE 4713/6713/CS 4113/6113). 3 hours
ECE 8073 Parallel Computing Architectures II (ECE 8063 and/or consent of instructor). 3 hours
ECE 8113 Linear Systems Analysis I. 3 hours
ECE 8223 Analog Integrated Circuit Design (ECE 3254). 3 hours
ECE 8253 Solid State Electronics II (ECE 4263/6263). 3 hours
ECE 8273 VLSI Systems I (ECE 4263/6263). 3 hours
ECE 8313 Electromagnetic Theory (ECE 3324). 3 hours
ECE 8401 Current Topics in Remote Sensing (credit or registration in ECE 4623/6423 or PSS 4473/6473 or ABE 4483/6483). 1 hour
ECE 8413 Digital Spectral Analysis (ECE 3163 or consent of instructor). 3 hours
ECE 8423 Adaptive Signal Processing (ECE 3163 or consent of instructor). 3 hours
ECE 8433 Statistical Signal Processing (MA 4533/6533 or consent of instructor). 3 hours
ECE 8443 Pattern Recognition (MA 4533/6533 or consent of instructor). 3 hours
ECE 8453 Introduction to Wavelets (ECE 3163 or consent of instructor). 3 hours
ECE 8463 Fundamentals of Speech Recognition (ECE 4413/6413 or consent of instructor). 3 hours
ECE 8473 Digital Image Processing (CS 1233, CS 1314 or equivalent, ECE 4413/6413 or equivalent, or consent of Instructor). 3 hours
ECE 8483 Image and Video Coding (ECE 8473 or consent of instructor). 3 hours
ECE 8523 Wafer Scale Integration (graduate standing and consent of instructor). 3 hours
ECE 8613 Advanced Power Systems Analysis (ECE 4613/6613 or equivalent). 3 hours
ECE 8643 Power System Planning (consent of instructor). 3 hours
ECE 8653 Advanced Energy Conversion (ECE 3414). 3 hours
ECE 8663 High Voltage Engineering (ECE 3313). 3 hours
ECE 8673 Computer Methods in Power System Analysis (ECE 4613/6613 or equivalent). 3 hours
ECE 8693 Power Systems Seminar (consent of instructor). 3 hours
ECE 8803 Random Signals and Systems (IE 4613 or MA 4523 or equivalent). 3 hours
ECE 8913 Advanced Feedback Control Systems (ECE 4613/6613). 3 hours
ECE 8923 Non-Linear Control Systems (ECE 4913/6913). 3 hours
ECE 8933 Random Processes in Automatic Control (ECE 4913/6913). 3 hours
ECE 8943 Theory of Optimal Control. 3 hours
ECE 8953 Sampled-Data Control Systems (ECE 4913/6913). 3 hours
ECE 8963 Digital Control Systems (ECE 4913/6913 and ECE 4923/6923 or consent of instructor). 3 hours
ECE 8990 Special Topics in Electrical Engineering. 1-9 hours
ECE 9000 Research/Dissertation. 20 hours

Elementary Education
(See Curriculum and Instruction)
Elementary, Middle, and Secondary Education Administration
(See Educational Leadership)

Engineering
James Worth Bagley College of Engineering

Dr. Kirk H. Schulz, Dean
Dr. Roger L. King, Associate Dean for Research and Graduate Studies

The Bagley College of Engineering offers the Doctor of Philosophy degree in:
- Biomedical Engineering
- Computational Engineering
- Computer Engineering
- Computer Science

The Bagley College of Engineering offers the Doctor of Philosophy degree in Engineering in the following concentration areas:
- Aerospace Engineering
- Biological Engineering
- Chemical Engineering
- Civil Engineering
- Engineering Physics
- Industrial Engineering
- Mechanical Engineering

Detailed information for each concentration can be found in the individual department’s listing in this publication.

Engineering Mechanics
James Worth Bagley College of Engineering

Dr. Kirk H. Schulz, Dean
Dr. Roger L. King, Associate Dean for Research and Graduate Studies
330 Walker Engineering Building
662-325-3623
Email: grad-coord@ae.msstate.edu

Faculty in Aerospace Engineering, Civil Engineering, and Mechanical Engineering offer courses in Engineering Mechanics. Engineering Mechanics is one of the basic engineering sciences. The Aerospace Engineering Department manages the Engineering Mechanics offerings. The following courses form a basis for graduate degrees offered in the James Worth Bagley College of Engineering.

Graduate Courses—Course prerequisites are noted in parentheses.

EM 6123 An Introduction to the Finite Element Method (consent of instructor). 3 hours
EM 6133 Mechanics of Composite Materials (EM 3213, MA 3253). 3 hours
EM 6143 Engineering Design Optimization (Consent of Instructor). 3 hours
EM 6213 Advanced Mechanics of Materials (EM 3213). 3 hours
EM 6990 Special Topics in Engineering Mechanics. 1-9 hours
EM 8113 Theory of Continuous Media (MA 3353 or consent of the instructor). 3 hours
EM 8203 Applied Elasticity. 3 hours
EM 8223 Elastic Stability. 3 hours
EM 8313 Advanced Dynamics (EM 2433, MA 3253). 3 hours
EM 8323 Advanced Vibrations (EM 3413). 3 hours
EM 8990 Special Topics in Engineering Mechanics. 1-9 hours
English
College of Arts and Sciences
Dr. Philip B. Oldham, Dean
Dr. Richard Raymond, Department Head
Richard F. Patteson, Graduate Coordinator
316 Lee Hall
662-325-3644
rfp1@ra.msstate.edu

Graduate Study is offered in the Department of English leading to the Master of Arts degree. Teaching assistantships are available.

Admission Criteria—Prerequisites for admission into the graduate program include all the general requirements of the Office of Graduate Studies and an undergraduate English degree (or 18 hours of undergraduate English courses beyond freshman composition, with a B average or higher). Applicants are strongly encouraged to submit GRE scores. International students must obtain a TOEFL score of 625 or better.

Program of Study/Completion Requirements—The Mississippi State University English Department offers two options in the M.A. program: the traditional curriculum, calling for 24 hours of course work plus thesis, and a non-thesis option, calling for 33 hours of course work. With the latter option, students may pursue concentrations in Creative Writing or the Teaching of English as a Second Language. External minors are also available.

General Program Requirements
(1) A seminar in bibliography and research methods, offered each fall, is required of every student.
(2) All students must display a reading knowledge of a foreign language, usually by having completed four undergraduate semesters in that language with a B average or higher.
(3) All students, regardless of their fields of concentration, must take a comprehensive examination in British and American literature. The exam must be taken at the beginning of the student’s third full semester.

Provisional Admission—If a student does not fully meet the admission requirements of the program, it may be possible for that student to be admitted provisionally. If provisionally admitted, the student must attain at least a 3.00 GPA on the first nine hours of graduate courses at Mississippi State University (transfer hours or unclassified hours may not be used). If a 3.00 GPA is not attained, the student may be dismissed from the graduate program.

Unsatisfactory Performance—Unsatisfactory performance in the graduate program in English may be defined as any of the following: failure to maintain a B average in attempted graduate courses after admission to the program, a grade of U or F in any one course, failure of the comprehensive examination, unsatisfactory evaluation of a thesis, or failure of a required component of the program of study. Any one of these or a combination of these may constitute the basis for review for possible dismissal. The graduate coordinator will review the record along with the student’s graduate committee and take a final course of action which will be immediate dismissal or the establishment of a probationary period in which corrective action must take place. Appeal of dismissal can be made by submitting a written appeal statement to the department head. If the dismissal is upheld by the department head upon the student’s appeal, the student can then submit a written appeal to the dean of the College of Arts & Sciences.

Graduate Courses—Course prerequisites are noted in parentheses.
EN 6013 Internship in Compositional Theory and the Teaching of College Writing. 3 hours
EN 6223 Principles of Legal Writing. 3 hours
EN 6303 Craft of Poetry (EN 3303 or consent of instructor). 3 hours
EN 6313 Craft of Fiction (EN 3303 or consent of instructor). 3 hours
EN 6323 Literary Criticism from Plato to the Present. 3 hours
EN 6333 Literature of the South. 3 hours
EN 6343 African American Literature (completion of English requirements in the student’s major). 3 hours
EN 6353 20th-Century Critical Theory. 3 hours
EN 6403 Introduction to Linguistics [same as AN 4403/6403]. 3 hours
EN 6413 History of the English Language. 3 hours
EN 6433 Teaching of English as a Second Language (EN 4403 or EN 3423 or consent of instructor). 3 hours
EN 6443 English Syntax (EN 3423 or consent of instructor). 3 hours
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<td>EN 6463</td>
<td>Studies in Second Language Acquisition (EN 4403/6403 or consent of instructor)</td>
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<tr>
<td>EN 6503</td>
<td>Shakespeare</td>
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<td>EN 6513</td>
<td>Shakespeare</td>
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<tr>
<td>EN 6523</td>
<td>Chaucer</td>
<td>3</td>
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<tr>
<td>EN 6533</td>
<td>Milton</td>
<td>3</td>
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<tr>
<td>EN 6623</td>
<td>Language and Culture (EN 4403/6603 or consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>EN 6633</td>
<td>Sociolinguistics (EN 4403/6403 or consent of instructor)</td>
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</tr>
<tr>
<td>EN 6643</td>
<td>The Eighteenth-Century British Novel</td>
<td>3</td>
</tr>
<tr>
<td>EN 6653</td>
<td>The Nineteenth-Century British Novel</td>
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</tr>
<tr>
<td>EN 6663</td>
<td>The Twentieth-Century British and Irish Novel (completion of English</td>
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<td>EN 6703</td>
<td>English Literature of the Sixteenth Century</td>
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<td>EN 6713</td>
<td>English Literature of the Seventeenth Century</td>
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<tr>
<td>EN 6723</td>
<td>The Restoration and Swift</td>
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<td>EN 6733</td>
<td>Eighteenth-Century Literature</td>
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<td>EN 6803</td>
<td>Types of Twentieth-Century Drama</td>
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<tr>
<td>EN 6813</td>
<td>The Twentieth-Century World Novel (completion of English requirements in the</td>
<td>3</td>
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<td>EN 6823</td>
<td>Twentieth-Century Poetry</td>
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<td>EN 6863</td>
<td>The Romantic Poets and Prose Writers</td>
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<td>EN 6883</td>
<td>Victorian Poets and Prose Writers</td>
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<td>EN 6903</td>
<td>American Literature: 1800-1860</td>
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<td>EN 6923</td>
<td>Twentieth-Century American Novel</td>
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<td>EN 6933</td>
<td>Survey of Contemporary Literature</td>
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<tr>
<td>EN 6943</td>
<td>Form and Theory of Fiction</td>
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<tr>
<td>EN 6953</td>
<td>Form and Theory of Poetry</td>
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<td>EN 6990</td>
<td>Special Topics in English</td>
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<tr>
<td>EN 7000</td>
<td>Directed Individual Study</td>
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<td>EN 8000</td>
<td>Research/Thesis</td>
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<td>EN 8103</td>
<td>Seminar in Graduate Research Methods</td>
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<td>EN 8333</td>
<td>Studies in Southern Literature</td>
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<td>EN 8513</td>
<td>Studies in English Literature to 1485</td>
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<td>Studies in English Literature 1832-1900</td>
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<td>EN 8553</td>
<td>Studies in American Literature to the Civil War</td>
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<td>EN 8563</td>
<td>Studies in American Literature from the Civil War</td>
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<td>EN 8573</td>
<td>Studies in Twentieth-Century Literature</td>
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<td>EN 8583</td>
<td>Selected Topics in Language and Literature</td>
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<tr>
<td>EN 8593</td>
<td>Studies in Post-Colonial Literature</td>
<td>3</td>
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<tr>
<td>EN 8990</td>
<td>Special Topics in English</td>
<td>1-9</td>
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</table>
The Department of Entomology and Plant Pathology offers graduate study leading to the Master of Science in Agriculture with a concentration in Plant Pathology, Master of Science in Agricultural Life Sciences with a concentration in Entomology, or Doctor of Philosophy in Entomology and Plant Pathology with a concentration in Entomology or in Plant Pathology. For more detailed information concerning any of the department’s graduate programs, please write to the Graduate Coordinator, Department of Entomology and Plant Pathology, Box 9775, Mississippi State, MS 39762 or email bperrigin@entomology.msstate.edu.

**Admission Criteria**—A graduate screening committee, composed of members of the Entomology and Plant Pathology faculty screen all applicants. Final acceptance into a graduate program is contingent upon the availability of a suitable major professor. Specific requirements for entrance into the program are listed below:

- Bachelor’s degree/Master’s degree from an accredited, 4-year college with a grade point average of 3.00/4.00 scale,
- Score of 1000 combined verbal and quantitative on the GRE,
- Three letters of recommendation, and
- TOEFL score of 500 (non-English speaking international students)

**Program of Study and Course Requirements:**

**M.S. with concentration in Entomology or Plant Pathology**—A student seeking a M.S. with a concentration in Entomology or Plant Pathology must complete 24 credit hours in course work above the baccalaureate degree, at least 15 hours of which must be from 8000 or 9000 level courses. The program of study must include two credit hours of Seminar (EPP 8111 and 8121).

**Ph.D. in Entomology or Plant Pathology**—Each of these programs requires 60 credit hours course work above the baccalaureate degree. The program of study must include two hours of Seminar credit (EPP 8111 and 8121). It is recommended that the doctoral program include enrichment courses to be approved by the graduate committee. The enrichment program would consist of 12 course credits or equivalent special projects or study areas related to the specific interests and needs of the student.

**Graduate Courses**

**Entomology Concentration:**

- **EPP 6154** General Entomology. 4 hours
- **EPP 6163** Plant Disease Management. 3 hours
- **EPP 6164** Insect Taxonomy (EPP 4154). 4 hours
- **EPP 6234** Field Crop Insects (EPP 2213 or 4154). 4 hours
- **EPP 6244** Aquatic Entomology (EPP 4154 or instructor approval). 4 hours
- **EPP 6263** Principles of Insect Pest Management. 3 hours
- **EPP 6335** Anatomy and Physiology of Insects (EPP 4154 [same as PHY 6335]). 5 hours
- **EPP 6543** Toxicology and Insecticide Chemistry (organic chemistry). 3 hours
- **EPP 6990** Special Topics in Entomology or Plant Pathology. 1-9 hours
- **EPP 7000** Directed Individual Study. 1-6 hours
- **EPP 8000** Research/Thesis. 6 hours
- **EPP 8111** Seminar. 1 hour
- **EPP 8121** Seminar. 1 hour
- **EPP 8144** Transmission Electron Microscopy [same as BIO 8014]. 4 hours
- **EPP 8223** Scanning Electron Microscopy (graduate standing and permission of instructor). 3 hours
- **EPP 8272** Empirical Research in Theory and Practice. 2 hours
EPP 8333 Advanced Toxicology (EPP 4543/6543 or BCH 5615) [same as PHY 8333]. 3 hours
EPP 8453 Insect Pathology. 3 hours
EPP 8483 Ecological Genetics (PO 3103 or equivalent and BIO 4113/6113 or consent of instructor. 3 hours
EPP 8624 Population Ecology of Insects (a course in general ecology). 4 hours
EPP 8990 Special Topics in Entomology or Plant Pathology. 1-9 hours
EPP 9000 Research/Dissertation. 20 hours

Plant Pathology Emphasis:
EPP 6114 Mycology (BOT 1203 and BOT 1213). 4 hours
EPP 6151 Taxon – Fungi Imperfecti (consent of instructor). 1 hour
EPP 6161 Taxon – Ascomycetes (consent of instructor). 1 hour
EPP 6171 Taxon – Basidiomycetes (consent of instructor). 1 hour
EPP 6181 Taxon – Oom and Zyg (consent of instructor). 1 hour
EPP 6163 Plant Disease Management (EPP 3113). 3 hours
EPP 6214 Disease of Crops (EPP 3113 or 3124). 4 hours
EPP 6523 Turfgrass Diseases (EPP 3113 or 3124). 3 hours
EPP 8113 Plant Nematology (EPP 3113). 3 hours
EPP 8123 Plant Virology (EPP 3113). 3 hours
EPP 8143 Advanced Plant Pathology I (EPP 3113). 3 hours
EPP 8173 Clinical Plant Pathology (EPP 3113 and EPP 4114/6114). 3 hours
EPP 8253 Advanced Plant Pathology II (EPP 3113, BOT 4214). 3 hours

Academic Performance—Students must receive a B or better in all courses in each graduate program in the Department of Entomology and Plant Pathology after admission to the program. Any student receiving two grades below a B will be recommended for dismissal from the University.

Completion Requirements—The student must present an approved/defended Thesis (M.S.) or Dissertation (Ph.D.) for completion of the program.

Environmental Toxicology
College of Veterinary Medicine
Dr. J. Gregg Boring, Interim Dean
Dr. A. Jerald Ainsworth, Associate Dean for Graduate Studies
Dr. Lora R. Ballweber, Graduate Coordinator
R2000 Wise Center
662-325-1417
peay@cvm.msstate.edu

Admission Criteria—To be admitted to the Ph.D. graduate program in Environmental Toxicology, the applicant must have at least a bachelor’s degree from a fully recognized four-year institution of higher learning and preferably an M.S. in a related field of study. The scholastic record for all undergraduate, graduate, and professional school coursework will be reviewed and should exceed a minimum GPA of 3.00 for undergraduate work; GPA of 3.00 for any graduate work; GPA of 2.75 for the four years of the veterinary curriculum, if applicable. Also required are three reference letters, a minimum TOEFL score of 550 for international students where English is not the primary language, and if a Graduate Record Examination score is available it will be considered.

Program of Study/Completion Requirements—Course requirements for a Ph.D. are a minimum of 60 hours beyond a Master’s or 90 hours beyond a baccalaureate degree which include at least 20 hours of dissertation research, three seminar courses, two statistics courses. The student must pass a preliminary examination which covers the major and supportive fields and a final examination which is a defense of the dissertation. In addition, the student must present an open seminar of the dissertation research just prior to the oral final examination. The student must adhere to the University and College regulations regarding his/her graduate program.

Provisional Admission—In special circumstances a student who does not meet
admission criteria may be admitted provisionally if approved by the Graduate Advisory Committee. A student admitted to provisional status is eligible for advancement to regular status after receiving a 3.00 GPA on the first nine hours of regular graduate-level courses (transfer hours and unclassified graduate hours will not apply). In addition, three grades below a B in graduate courses will remove the student from degree candidacy.

Unsatisfactory Performance—If a student does not show satisfactory progress toward meeting academic, research, and/or dissertation requirements, the student's performance will be reviewed in a meeting with his/her Graduate Committee. This committee may recommend a change in the student's program or recommend that the student be dismissed from the degree program. For more information write to: Graduate Coordinator, Environmental Toxicology Program, College of Veterinary Medicine, P.O. Box 6100, Mississippi State, MS 39762-6100 or visit the website at http://www.cvm.msstate.edu.

Finance and Economics

College of Business and Industry
Dr. Sara Freedman, Dean
Dr. Paul Grimes, Department Head
Dr. Barbara Spencer, Graduate Coordinator
326 McCool Hall
662-325-2341
gsb@cobilan.msstate.edu

The Department of Finance and Economics offers the following graduate degrees through the college of Business and Industry:
Master's Degrees: M.A. in Economics M.S.B.A. in Finance
Doctoral Degrees: Ph.D. in Applied Economics Ph.D. in Business Administration with a concentration in Finance

The Ph.D. in Applied Economics is offered and administered jointly with the graduate economics faculty in the Department of Agricultural Economics. Please see Applied Economics for a description of this degree. Please see Business Administration for a description of the degree requirements for the Ph.D in Business Administration with a concentration in Finance.

Master of Arts (M.A.) in Economics

Program Objective—The Master of Arts in economics program provides training in economic science to prepare graduates for professional positions in business, government, and education. Students receive training in the academic and applied skills necessary to establish and maintain a successful career or to prepare for further graduate work in economics or related fields.

Admission Criteria—An applicant must meet all University graduate admission requirements and achieve acceptable scores on each major section of the GRE (verbal, quantitative, and analytical). For full admission to the program, the student must have previously completed intermediate microeconomics and intermediate macroeconomics or otherwise demonstrate a thorough understanding of basic economic theory and an ability to perform graduate-level work in economics. Students from all undergraduate majors are invited to apply; however, it is highly desirable for prospective students to have completed additional economics, statistics, and mathematics courses before enrolling in the M.A. program. Competitive fellowships, assistantships, and financial assistance are available to students with meritorious academic records.

Program of Study—Each M.A. student prepares a program of study with consultation from the graduate advisor and a program committee. The student may choose to take field courses from a wide variety of areas within economics. With the permission of the graduate advisor, the student may also elect to take major courses offered by the Department of Agricultural Economics.

Provisional Admission—The student who has not fully met the requirements stipulated by the University and the department for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. The student must have as his or her initial objective advancement to regular status.

A provisional student must receive a 3.00 GPA on the first nine hours of graduate level courses on the program of study taken at Mississippi State University (transfer hours and unclassified graduate hours will not apply) in order to achieve regular status. If a 3.00 is not attained, the provisional student will be dismissed from graduate study. While in the provisional status, a student is not eligible to hold a graduate assistantship.

Academic Performance—A grade of C or better is required on all undergraduate prerequisite courses. A student in any graduate degree
program in the College of Business and Industry may not continue in the program with grades below B in more than 6 hours of graduate course work after admission to the program, regardless of the overall average. Thus, any program is terminated automatically when a seventh credit hour below B is recorded on graduate course work.

Core Courses—A student must complete the following core courses as part of the M.A. in Economics program:

EC 8133 Econometrics I. 3 hours
EC 8163 Microeconomics I. 3 hours
EC 8173 Macroeconomics I. 3 hours

Completion Requirements—The M.A. in Economics is earned upon completion of a minimum of 30 hours of graduate course work. Students choose from two program options: thesis and non-thesis. In addition to the core courses, the thesis option requires 15 hours of economics course work and six hours of thesis credit. Students electing the non-thesis option must complete 21 hours of economics course work in addition to the core courses. Both options also require a nine-hour minor field, and a committee member from the minor area is required. Students choose a minor field which complements their career objectives and future plans. Some of the minor fields available include: finance, marketing, management, sociology, quantitative analysis, agricultural economics, and public administration.

For further information write: Director, Graduate Studies in Business, P.O. Box 5288, Mississippi State, MS 39762. Fax: 662-325-8161. E-Mail: gsb@cobilan.msstate.edu. Web: www.cbi.msstate.edu/gsb/masters/econ.html

Graduate Courses—Course prerequisites are noted in parentheses.

Economics:

EC 6183 U.S. Economic History (completion of any 1000-level history course). 3 hours
EC 6213 Personnel Economics (EC 2113 and EC 2123). 3 hours
EC 6223 Labor Law and Employment Policy (three hours of economics or consent of instructor). 3 hours
EC 6303 Theory of Economic Development (EC 2113 and EC 2123). 3 hours
EC 6313 Introduction to Regional Economics (EC 2113, EC 2123, and MA 1463 or consent of instructor). 3 hours

EC 6323 International Economic Relations (EC 2113 and EC 2123). 3 hours
EC 6333 Applied Regional Economics (EC 4313/6313). 3 hours
EC 6423 Introduction to Public Finance (EC 2113 and EC 2123). 3 hours
EC 6433 Problems in State and Local Finance (EC 2113 and EC 2123). 3 hours
EC 6523 History of Economic Thought (EC 2113 or consent of instructor). 3 hours
EC 6990 Special Topics in Economics. 1-9 hours
EC 7000 Directed Individual Study. 3 hours
EC 8000 Research/Thesis. 6 hours
EC 8043 Survey of Economics (graduate standing). 3 hours
EC 8103 Economics for Managers (EC 2113 and EC 2123, or equivalent). 3 hours
EC 8113 Labor Theory and Analysis (graduate standing). 3 hours
EC 8133 Econometrics I (BQA 8443, ST 6134 or equivalent and familiarity with linear algebra). 3 hours
EC 8143 Econometrics II (EC 8133). 3 hours
EC 8163 Microeconomics I (EC 3123, one semester calculus, or consent of instructor). 3 hours
EC 8173 Macroeconomics I (EC 3113, EC 3123 and one semester calculus, or consent of instructor). 3 hours
EC 8183 Industrial Organization (EC 8103 or equivalent). 3 hours
EC 8263 Microeconomics II (EC 8163). 3 hours
EC 8273 Macroeconomics II (EC 8173 or equivalent). 3 hours
EC 8323 Economic Analysis of Developing Nations (nine hours in economics, including EC 4303/6303 or equivalent). 3 hours
EC 8423  Public Finance (EC 2113, EC 2123 and graduate standing). 3 hours

EC 8522  Seminar in the History Economic Thought (graduate standing or consent of instructor). 2 hours

EC 8643  Applied Economic Skills: Advanced Estimation and Diagnostics of Econometric Models (EC 8133 and EC 8143 or consent of instructor). 3 hours

EC 8990  Special Topics in Economics. 1-9 hours

EC 9000  Research/Dissertation. 20 hours

**Master of Science in Business Administration (M.S.B.A.) in Finance**

**Program Objective**—This program targets graduate students who are interested in a business curriculum with a specialization in Finance. An applicant for the M.S.B.A. program should hold a bachelor’s degree from a fully recognized four-year institution of higher learning that enjoys unconditional accreditation by appropriate regional accrediting agencies. All general requirements stated in the Graduate Bulletin must be met.

**Admission Criteria**—An applicant for the M.S.B.A. program must take the Graduate Management Admission Test (GMAT).

Admission to the M.S.B.A. program requires a GPA of 3.00 or above out of 4.00 points over the last 60 semester hours of baccalaureate work and a GMAT score of 500 or above or a combined score of 1100 using the formula (200 x GPA + GMAT). When a student is deficient in either of the criteria cited, the student’s application, nevertheless, may be considered for admission based on the strength of other materials contained in the student’s application. However, reasonable minimum levels of performance must be achieved in both the applicant’s GPA and GMAT scores.

**Provisional Admission**—A student who has not fully met the requirements stipulated by the University and the department for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. Such student must have as his/her initial objective advancement to regular status.

A provisional student will be dismissed from graduate study. While in the provisional status, a student is not eligible to hold a graduate assistantship.

**International applicants**—An international applicant not holding degree from a U.S. institution must submit a TOEFL report of 575 or higher with her/his application in order to be considered for regular admission.

**Program of Study/Completion Requirements**—Course work for the M.S.B.A. program consists of the major and minor. At a minimum, all candidates for the M.S.B.A. must complete 30 hours of course work beyond the required pre-requisites. This 30 hours is composed of 21 hours in the major and nine hours in the minor area. A committee member from the minor area is required.

**Academic Performance**—A grade of C or better is required on all undergraduate prerequisite courses. A student in any graduate degree program in the College of Business and Industry may not continue in the program with grades below B in more than six hours of graduate course work, regardless of the overall average. Thus, any program is terminated automatically when a seventh credit hour below B is recorded on graduate course work.

**Core Courses**—The finance major core is structured around the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>FIN 6923</td>
<td>International Financial Management (FIN 8112 and FIN 8122 or equivalent).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FIN 8052</td>
<td>Survey of Finance (graduate standing; ACC 8013, BQA 8033, and EC 8043, equivalent or concurrent enrollment).</td>
<td>2 hours</td>
</tr>
<tr>
<td>FIN 8112</td>
<td>Capital Acquisition and Allocation (FIN 8052 or equivalent).</td>
<td>2 hours</td>
</tr>
<tr>
<td>FIN 8122</td>
<td>Corporate Liquidity Analysis (FIN 8052 or equivalent).</td>
<td>2 hours</td>
</tr>
<tr>
<td>FIN 8223</td>
<td>Problems in Corporation Finance (FIN 8213).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FIN 8233</td>
<td>Advanced Financial Management (FIN 8112 and FIN 8122 or equivalent).</td>
<td>3 hours</td>
</tr>
</tbody>
</table>
Food Science, Nutrition, and Health Promotion

College of Agriculture and Life Sciences

Dr. Vance Watson, Dean
Dr. Benjy Mikel, Department Head
Herzer Building
Box 9805
Mississippi State University, MS  39762
662-325-3200
graduate_coordinator@fsnhp.msstate.edu

Graduate study is offered in the Department of Food Science, Nutrition, and Health Promotion leading to a Master of Science degree with concentrations in Food Science and Technology, Nutrition, or Health Promotion. The Doctor of Philosophy degree in Food Science and Technology is also offered through this department.

Graduate teaching assistantships may be available. To secure additional information contact the Graduate Coordinator, Department of Food Science, Nutrition, and Health Promotion, PO Box 9805, Mississippi State, MS 39762-9805 or visit the departmental website: http://www.msstate.edu/dept.fst/.

The Doctor of Philosophy in Nutrition, an interdisciplinary curriculum, is also offered in conjunction with the Department of Food Science, Nutrition, and Health Promotion. Additional information regarding this degree can be obtained in this bulletin under the Nutrition heading.

Master of Science in Food Science, Nutrition, and Health Promotion

Food Science and Technology—In 1983 the Board of Trustees of Institutions of Higher Learning designated Mississippi State University (MSU) as the flagship university for a food science program in the state of Mississippi. The designation basically stated that MSU would be the only university in the state with such a program. A student may work toward a Master of Science in Food Science, Nutrition, and Health Promotion with a concentration in Food Science and Technology by selecting courses from Food Science, Nutrition, Animal and Dairy Sciences, Poultry Science, Horticulture, etc., and by
completing supporting work in other disciplines such as Biochemistry, Microbiology, Statistics, Computer Science, etc. Faculty, staff members, and facilities of the cooperating departments are utilized. A Bachelor of Science in Food Technology, Food Science, or related areas will be considered to meet the prerequisites for study toward an advanced degree. A student from other disciplines will be required to take leveling courses generally not to exceed 15 semester hours.

Nutrition—A Master of Science degree in Food Science, Nutrition, and Health Promotion with a concentration in Nutrition is offered by selecting courses in Food Science, Nutrition, Biochemistry, and Health Promotion. A Dietetic Internship/Graduate Studies Program is also offered in combination with a Master of Science degree in Food Science, Nutrition, and Health Promotion with a concentration in Nutrition.

The Dietetic Internship/Graduate Studies Program is an innovative, post-baccalaureate program designed to prepare interns for rewarding careers in traditional and non-traditional roles. Interns complete the requirements for the Dietetic Internship and a Master of Science degree in Food Science, Nutrition, and Health Promotion with a concentration in Nutrition. The MSU Dietetic Internship/Graduate Studies Program provides hands-on experience in various clinical research, food service management, community nutrition, and nutrition education activities that registered dietitians encounter. Interns work with faculty, site coordinators and preceptors in outpatient clinics, various inpatient settings, community settings, classrooms and other locations as they build skills and broaden their understanding of modern dietetics. Upon completion of the internship and Master of Science degree, a graduate is prepared for the Registration Examination of the Commission on Dietetic Registration and successful entry level practice.

The Mississippi State University Dietetic Internship/Graduate Studies Program is currently granted accreditation by the Commission on Accreditation for Dietetics Education of the American Dietetic Association, 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, 312-899-0040, ext. 5400. Dietetic interns must be admitted to graduate studies in Nutrition within the Department of Food Science, Nutrition, and Health Promotion and have a notebook computermeeting the specification of the Dietetic Internship/Graduate Studies Program. For additional information contact Dietetic Internship/Graduate Studies Program Director, Box 9805, Mississippi State University, MS 39762-9805 or visit the departmental website: http://www.msstate.edu/dept/fsnhp/.

Health Promotion—A Master of Science degree in Food Science, Nutrition, and Health Promotion with a concentration in Health Promotion is available. This inventive program is designed to equip students for careers as health educators, health promotion specialists, and health scientists. Graduates from this program will be trained for careers in school health, public health, and/or violence and injury prevention.

Admission Criteria—A minimum of a 2.75 GPA (undergraduate work) is required for graduate work if accrued over a four-year average. If accrued over a two-year period, a 3.00 GPA is required. Applicants must have taken Graduate Record Examination (GRE) with an official score of 800 or higher when the verbal and quantitative sections are combined. International students are required to have a minimum TOEFL score of 550 on the paper-based test or 173 on the computer-based test.

Provisional Admission—A student who has not fully met the requirements stipulated by the University and the department for admission to graduate study may be granted provisional admission as a degree-seeking graduate student with provisional status. Such student must have as his/her initial objective advancement to regular status.

A provisional student must receive a 3.00 GPA on the first nine hours of graduate level courses on the program of study taken at Mississippi State University (transfer hours or unclassified graduate hours will not apply) in order to achieve regular status. If a 3.00 is not attained, the provisional student will be dismissed from graduate study. While in the provisional status, a student is not eligible to hold a graduate assistantship.

Program of Study/Completion Requirements:
Food Science and Technology—The Master of Science degree in Food Science, Nutrition, and Health Promotion with a Food Science and Technology concentration requires a minimum number of 30 hours of graduate credit with 24 hours of course work, half of which must be at the 8000 level or above. The program must also contain at least six hours of research/thesis. If a minor is approved, at least nine additional hours of course work are required. A degree candidate must be thoroughly familiar with the literature in the field of major interest, must show the relation of special subject to allied subjects, and the level of general knowledge and training, including the use of oral and written English. At the conclusion of research, the student will present her/his research work in the form of a seminar either
during the regularly scheduled FNH seminar or immediately prior to the student’s defense. This is in addition to the FNH seminar course taken for credit.

**Nutrition**—The Master of Science in Food Science, Nutrition, and Health Promotion with a Nutrition concentration requires a minimum of 30 hours of graduate credit (including six hours of Research/Thesis), a research thesis, and a final defense. Core course requirements include BCH 6603, BCH 6613 and ST 8114 or equivalents. A graduate program of study should be submitted and approved by the student’s graduate committee and graduate coordinator by the end of the first semester of graduate study. The graduate committee should be composed of the major professor and two committee members.

**Health Promotion**—The Master of Science degree in Food Science, Nutrition, and Health Promotion with a Health Promotion concentration requires a minimum of 33 hours of graduate credit. A student may select either the Thesis or Non-Thesis option. The student develops, in cooperation with his/her major professor, a program of study during the first semester. All students must successfully complete comprehensive examinations before being awarded the degree of Master of Science in Food Science, Nutrition, and Health Promotion with a Health Promotion concentration. The student must be within six hours of graduation, have completed all core courses, and have a 3.00 GPA after admission to the program to apply for comprehensive examinations.

A student pursuing the Thesis Option is required to complete six thesis hours as part of the 33 required hours. A thesis committee, consisting of the student’s major professor and two other graduate faculty members, must be established.

A student pursuing the Non-Thesis Option may choose to complete a Directed Individual Study and 33 required hours. A student choosing a Directed Individual Study must establish a committee consisting of the student’s major professor and one other graduate faculty member. A student not completing a thesis or Directed Individual Study is required to complete 36 credit hours.

The following courses are required: FNH 8593 Theory and Practice of Health Education; FNH 8523 Health Promotion Techniques; FNH 8553 Behavioral Epidemiology; FNH 8613 Design and Administration of HP Programs; and FNH 8653 Implementation and Evaluation of Health Promotion Programs.

**Doctor of Philosophy in Food Science and Technology**

A Doctor of Philosophy degree in Food Science and Technology is offered within the Department of Food Science, Nutrition, and Health Promotion. Graduate teaching assistantships may be available. To secure additional information contact the Graduate Coordinator, Department of Food Science, Nutrition, and Health Promotion, Box 9805, Mississippi State University, MS 39762-9805 or visit the department website [http://www.msstate.edu/dept/fshnp/](http://www.msstate.edu/dept/fshnp/).

A student may work toward a Doctor of Philosophy in Food Science and Technology by selecting courses from Food Science, Nutrition, Animal and Dairy Sciences, Poultry Science, Horticulture, etc. and by completing supporting work in other disciplines such as Biochemistry, Microbiology, Statistics, Computer Science, etc. Faculty, staff members, and facilities of the cooperating departments are utilized. A Master of Science in Food Technology, Food Science, or related areas will be considered to meet the prerequisites for study towards a doctorate. Students from other disciplines will be required to take leveling courses generally not to exceed 15 semester hours.

**Admission Criteria**—For regular admission to the Ph.D. program in Food Science and Technology, an applicant must have a minimum grade point average of 2.75 (undergraduate) if accrued over a four-year average. If accrued over a two-year period, a 3.00 grade point average is required. An applicant must have a minimum grade point average of 3.00 on M.S. work. In addition, the applicant must take the Graduate Record Examination (GRE) with an official score of 800 or higher when the verbal and quantitative sections are combined. International students are required to have a minimum TOEFL score of 550 on the paper-based test or 173 on the computer-based test.

**Program of Study/Completion Requirements**—The minimum number of course work hours for a Ph.D. student varies according to the specific requirements of the department and the student’s needs. In establishing the Ph.D. candidate’s program, the graduate committee assists the student in arranging his/her major and may specify a minor as well. When required, a minor in a doctoral program requires at least 12 additional hours of graduate course work. A committee member from the minor area is required.

The student must demonstrate competence in at least, but not limited to, the following areas: Food Microbiology, Food Chemistry, Food
Processing, statistics (beyond Statistical Methods), and Biochemistry (decided by graduate committee). Great reliance is placed on the student’s graduate committee and especially the major professor to develop a program of study commensurate with the goals and background of the student while maintaining the standards of the department.

A Ph.D. candidate must demonstrate mastery of a particular field of knowledge, the techniques of research, and of the correlation of his/her specialty with the larger areas of knowledge, especially those directly related to his/her own field of interest. At the conclusion of the dissertation research, the student will present his/her research in the form of a seminar, either during the regularly scheduled FHN seminar or immediately prior to the dissertation defense. This is in addition to the FNH seminar taken for credit in the program of study.

<table>
<thead>
<tr>
<th>Department Representatives</th>
<th>Title</th>
<th>Food Science, Nutrition, and Health Promotion Courses—Course prerequisites are noted in parentheses.</th>
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<tbody>
<tr>
<td>T. G. Althen</td>
<td>Professor Animal and Dairy Sciences</td>
<td></td>
</tr>
<tr>
<td>L. S. Andrews</td>
<td>Associate Professor Coastal Research and Extension Center</td>
<td></td>
</tr>
<tr>
<td>S. H. Byrd</td>
<td>Associate Professor Food Science, Nutrition, and Health Promotion</td>
<td></td>
</tr>
<tr>
<td>Y. Chen</td>
<td>Assistant Professor Food Science, Nutrition, and Health Promotion</td>
<td></td>
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<tr>
<td>J. E. Clary</td>
<td>Associate Professor Food Science, Nutrition, and Health Promotion</td>
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<tr>
<td>P. C. Coggins</td>
<td>Assistant Professor Food Science, Nutrition, and Health Promotion</td>
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<tr>
<td>B. J. Fountain</td>
<td>Assistant Professor Food Science, Nutrition, and Health Promotion</td>
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<tr>
<td>Z. Z. Haque</td>
<td>Professor Food Science, Nutrition, and Health Promotion</td>
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<tr>
<td>A. F. Hood</td>
<td>Extension Professor Food Science, Nutrition, and Health Promotion</td>
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<tr>
<td>B. P. Hunt</td>
<td>Professor Food Science, Nutrition, and Health Promotion</td>
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<tr>
<td>D. L. Marshall</td>
<td>Professor Food Science, Nutrition, and Health Promotion</td>
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<tr>
<td>W. B. Mikel</td>
<td>Professor and Head Food Science, Nutrition, and Health Promotion</td>
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<tr>
<td>M. W. Schilling</td>
<td>Assistant Professor Food Science, Nutrition, and Health Promotion</td>
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<tr>
<td>J.L. Silva</td>
<td>Professor Food Science, Nutrition, and Health Promotion</td>
<td></td>
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<tr>
<td>Y. V. Thaxton</td>
<td>Professor Poultry Science</td>
<td></td>
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<tr>
<td>C. H. White</td>
<td>Professor Food Science, Nutrition, and Health Promotion</td>
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</tr>
</tbody>
</table>

Food Science, Nutrition, and Health Promotion Courses—Course prerequisites are noted in parentheses.

- **FNH 6114** Analysis of Food Products (CH 2503). 4 hours
- **FNH 6123** Fermented Foods Processing (BIO 3304). 3 hours
- **FNH 6143** Dairy Foods Processing. 3 hours
- **FNH 6153** Food Plant Management. 3 hours
- **FNH 6164** Quality Assurance of Food Products (BIO 3304). 4 hours
- **FNH 6173** Food Packaging (consent of instructor). 3 hours
- **FNH 6193** Social and Cultural Aspects of Food. 3 hours
- **FNH 6233** Medical Nutrition Therapy (FNH 3213, BCH 3613, FNH 4223). 3 hours
- **FNH 6241** Applied Food Chemistry (BCH 3613 and prior credit for/or current enrollment in FST 6243). 1 hour
- **FNH 6243** Composition and Chemical Reactions of Foods (CH 1053 and CH 2503 or equivalent)[same as ADS 6243]. 3 hours
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FNH 6253</td>
<td>Human Nutrition I (BIO 2014 and CH 2503 or equivalent) [same as NTR 4253/6253]</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6263</td>
<td>Nutrition Throughout the Life Cycle (FHN 4223) [same as HS 6263].</td>
<td>3 hours</td>
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<tr>
<td>FNH 6273</td>
<td>Nutrition Assessment.</td>
<td>3 hours</td>
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<tr>
<td>FNH 6274</td>
<td>Advanced Food Service Management.</td>
<td>3 hours</td>
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<tr>
<td>FNH 6283</td>
<td>Purchasing Food and Equipment for Foodservice Systems.</td>
<td>3 hours</td>
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<tr>
<td>FNH 6203</td>
<td>Human Nutrition II.</td>
<td>3 hours</td>
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<tr>
<td>FNH 6314</td>
<td>Meats Processing [Same as ADS 6314].</td>
<td>4 hours</td>
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<tr>
<td>FNH 6333</td>
<td>Food Law (consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>FNH 6353</td>
<td>Nutrition/Life Cycle (BIO 4253/6253 or consent of instructor) [same as HS 4353/6353 and NTR 6353].</td>
<td>3 hours</td>
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<td>FNH 6373</td>
<td>Career Skills in FNH.</td>
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<td>FNH 6393</td>
<td>Prevention of Disease.</td>
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<td>FNH 6414</td>
<td>Microbiology of Foods (BIO 3404) [same as BIO 6414].</td>
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<td>FNH 6513</td>
<td>Poultry Processing [Same as PO 6513].</td>
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<td>FNH 6573</td>
<td>Food Engineering Fundamentals (MA 1713, PH 1123 or consent of instructor).</td>
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<td>FNH 6583</td>
<td>Food Preservation Technology [same as PSS 4583/6583].</td>
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<td>FNH 6593</td>
<td>New Food Product Development.</td>
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<td>Seafood Processing.</td>
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<td>FNH 8114</td>
<td>Advanced Food Microbiology (FST/BIO 6414 or equivalent).</td>
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<td>FNH 8143</td>
<td>Advanced Food Chemistry (FST 6243).</td>
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<tr>
<td>PE 8153</td>
<td>Wellness and Aging (PE 3303 or PSY 4403/6403 or consent of Department)</td>
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<td>FNH 8163</td>
<td>Flavor and Food Acceptance (CH 2503).</td>
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<td>FNH 8193</td>
<td>Problems in Health Education.</td>
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<td>FNH 8233</td>
<td>Maternal, Infant, and Child Nutrition.</td>
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<td>FNH 8243</td>
<td>Community Nutrition (FNH 3213).</td>
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<td>FNH 8253</td>
<td>Nutrition and Food Science Research Techniques [Same as NTR 8253].</td>
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<td>FNH 8261</td>
<td>Dietetic Internship Seminar.</td>
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<td>FNH 8273</td>
<td>Dietetic Internship Capstone.</td>
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<td>FNH 8286</td>
<td>Supervised Practice Experience.</td>
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<td>FNH 8423</td>
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<td>Poultry and Food Science Readings (PO 6513 or 3 hours in related courses offered in Animal and Dairy Sciences or Horticulture) [Same as PO 8513].</td>
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<td>FNH 8523</td>
<td>Health Promotion Techniques.</td>
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<td>FNH 8553</td>
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<td>FNH 8593</td>
<td>Theory and Practice of Health Education.</td>
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Foreign Languages

College of Arts and Sciences
Dr. Philip B. Oldham, Dean
Dr. Edmond Emplaincourt, Department Head and Graduate Coordinator
300 Lee Hall
662-325-3480
e-mail: eaempl@ra.msstate.edu

Graduate study is offered in the Department of Foreign Languages leading to the degree of Master of Arts. Areas of study are French, German, and Spanish.

Admission Criteria—The Graduate Record Examination (GRE) is not required for admission to the M.S. program in Foreign Languages. International students are required to have a TOEFL score of 525 or better in order to be considered.

Program of Study/Completion Requirements—Thesis and non-thesis options are available. The thesis option requires satisfactory completion of 24 semester hours of course work and six semester hours of research/thesis, for a total of 30 semester hours. The non-thesis option requires satisfactory completion of 33 semester hours in one language or 36 semester hours in two languages for students wishing a double major (18 semester hours in each language). Also required for the degree is a comprehensive oral examination based upon all course work taken and (where applicable) an oral defense of the thesis. One course, FL 8103 (Bibliography and Research Methods), is required of all Master’s candidates. A minimum of 21 semester hours in one language must be taken for the M.A.; this allows a student to work in a minor field, such as History, Education, the Teaching of English as a Second Language, and Foreign Language Methodology.

Provisional Admission—Students who have not fully met the requirements stipulated by the University and the appropriate department for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. Such students must have as their initial objective advancement to regular status.

A provisional student must receive a 3.00 GPA on the first nine hours of graduate level courses on his or her program of study taken at Mississippi State University (transfer hours or unclassified graduate hours will not apply) in order to achieve regular status. If a 3.00 is not attained, the provisional student will be dismissed from graduate study. While in the provisional status, students are not eligible to hold a graduate assistantship.

Academic Performance—Continuous enrollment in the University or in a specific graduate program is dependent upon a satisfactory evaluation of academic performance and progress toward the completion of a specified degree. A student’s progress is considered satisfactory unless judged to be unsatisfactory by the department and/or the dean of the college offering the program. Unsatisfactory performance may be defined as the failure to maintain a B average in graduate courses attempted after admission to the program, a grade of U, D, or F in any course, more than two grades below a B, failure of the comprehensive/preliminary examination, an unsatisfactory evaluation of a thesis or dissertation, failure of the research defense, or any other failure of a required component of one’s program of study. Any one of these, or any combination of these, may constitute the basis for the termination of a student’s graduate study in a degree program; individual programs have the right to establish their own criteria.

To be eligible for the comprehensive/preliminary examination, a graduate student must maintain an overall B average in all graduate courses attempted after admission to the program.

Graduate teaching assistantships, awarded on a competitive basis, are available. For additional information, contact the head of the Department of Foreign Languages, P.O. Box FL, Mississippi State, MS 39762 or fax 662-325-8209.
### Graduate Courses

Course prerequisites are noted in parentheses.

#### French:

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<td>FLF 6143</td>
<td>French Classicism</td>
<td>(FLF 3513 or consent of instructor)</td>
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<td>Historical Grammar</td>
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#### German:

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<td>History of the German Language</td>
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<td>Introduction to Middle High German</td>
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<td>Early German Literature</td>
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<td>German Literature of the Reformation and Baroque.</td>
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<td>FLS 6283. The Contemporary Spanish-American Novel and Short Story (FLS 3523 or consent of instructor).</td>
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**Special Graduate Courses:**
- **FL 6013** Major Themes or Movements in Comparative Germanic and Romance Literatures. 3 hours
- **FL 6123** Scandinavian Mythology [Same as REL 4123/6123]. 3 hours
- **FL 6143** Classical Mythology [Same as REL 4143/6143]. 3 hours
- **FL 6613** Phonetics and Phonology. 3 hours
- **FL 6623** The Vikings [same as HI 4623/6623]. 3 hours
- **FL 6990** Special Topics in Foreign Language. 1-9 hours
- **FL 8103** Seminar in Bibliography and Research Methods. 3 hours
- **FL 8990** Special Topics in Foreign Language. 1-9 hours

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**Forest Products**

**College of Forest Resources**

Dr. George M. Hopper, Dean/Director
Dr. Liam Leightley, Department Head
Dr. Darrel Nicholas, Graduate Coordinator
P.O. Box 9820
662-325-2116

The field of forest products is concerned with extending man’s knowledge of wood as a material and applying this knowledge to the manufacture of useful products. It requires knowledge of the chemical, physical, botanical, and engineering sciences and how they impinge on wood. Graduate study in the Department of Forest Products leads to the Master of Science in Forest Products or Doctor of Philosophy in Forest Resources with an emphasis in forest products. Major areas of study include composite wood products, environmental biotechnology, wood preservation, business and production systems, wood chemistry, and furniture. In lieu of the foreign language requirement, the Ph.D. candidate is required to take six hours of research skill courses from the department list. Research assistantships are available. For additional information write to the Departmental Graduate Coordinator, Department of Forest Products, Box 9820, Mississippi State, MS 39762-9820.

**Admission**—An applicant to the program is not required to have the GRE or GMAT test scores unless his/her grade point average is below 3.00.
An international applicant is required to have a TOEFL score of 550 or better in order to be considered. Interviews, certifications, etc. are not applicable.

Program of Study/Completion
Requirements—The M.S. program requires 24 hours of course work with at least half at the 8000 level, six hours of research/thesis, and a thesis defense. The M.S. student is encouraged to present one professional paper to a referred journal.

The Ph.D. program requires approximately 60 hours of course and research work, a written preliminary examination, an oral examination, and a dissertation. The Ph.D. student is encouraged to submit two professional papers to referred journals. The student must meet all the necessary guidelines to complete thesis/dissertation requirements set by the department, college, and the University in order to graduate. Types of qualifying and exit examinations are required by the department (doctoral preliminary).

Provisional Admission—A provisional student must receive a 3.00 GPA on the first nine hours of graduate level courses on his or her program of study taken at Mississippi State University (transfer hours or unclassified graduate hours will not apply) in order to achieve regular status. If a 3.00 is not attained, the provisional student may be dismissed from graduate study. While in the provisional status, a student is not eligible to hold a graduate assistantship.

Academic Performance—Department of Forest Products will accept a C grade; however, the student’s overall GPA must be 3.00 or above.

Graduate Courses—Course prerequisites are noted in parentheses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FP 6013</td>
<td>Wood Anatomy (FP 1103 or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>FP 6023</td>
<td>Wood Chemistry (CH 1053 and CH 1051 or CH 1223 and CH 1221). 3 hours</td>
</tr>
<tr>
<td>FP 6113</td>
<td>Adhesives and Finishes for Wood (CH 1053, FP 1103 or consent of instructor). 3 hour</td>
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<tr>
<td>FP 6123</td>
<td>Lumber Manufacturing (consent of instructor). 3 hours</td>
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<tr>
<td>FP 6143</td>
<td>Composite Wood Products (FP 4113). 3 hours</td>
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<tr>
<td>FP 6213</td>
<td>Wood Deterioration and Preservation (consent of instructor). 3 hours</td>
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<tr>
<td>FP 6223</td>
<td>Furniture Production I (FP 1103 or consent of instructor). 3 hours</td>
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<tr>
<td>FP 6233</td>
<td>Furniture Production II (FP 1103 or consent of instructor). 3 hours</td>
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<tr>
<td>FP 6253</td>
<td>Quantitative Methods in Forest Products and Furniture (MA 1613 or MA 1713, CS 4093/6093 or concurrent). 3 hours</td>
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<td>FP 6313</td>
<td>Environmental Principles (FP 3012 or consent of instructor). 3 hours</td>
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<td>FP 6323</td>
<td>Physical Properties of Wood (FP 1103, MA 1613, PH 1113 or consent of instructor). 3 hours</td>
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<td>FP 6353</td>
<td>Forest Products Marketing (FP 3012 and junior standing). 3 hours</td>
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<td>FP 6423</td>
<td>Mechanical Properties of Wood (FP 1103, MA 1613, PH 1113 or consent of instructor). 3 hours</td>
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<td>FP 6990</td>
<td>Special Topics in Forest Products. 1-9 hours</td>
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<tr>
<td>FP 7000</td>
<td>Directed Individual Study. 3 hours</td>
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<td>FP 8000</td>
<td>Research/Thesis. 6 hours</td>
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<tr>
<td>FP 8111</td>
<td>Research Seminar. 1 hour</td>
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<tr>
<td>FP 8113</td>
<td>Advanced Wood Physics (consent of instructor). 3 hours</td>
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<td>FP 8123</td>
<td>Lignocellulosic Chemistry (consent of instructor). 3 hours</td>
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<td>FP 8133</td>
<td>Environmental Issues in Forest Products (consent of instructor). 3 hours</td>
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<tr>
<td>FP 8143</td>
<td>Ultrastructure of Wood (course in basic wood anatomy and identification, comparable to FP 4013/6013). 3 hours</td>
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<tr>
<td>FP 8213</td>
<td>Advanced Wood Mechanics (consent of instructor). 3 hours</td>
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</tr>
<tr>
<td>FP 9000</td>
<td>Research/Dissertation. 20 hours</td>
</tr>
</tbody>
</table>
Forestry

College of Forest Resources
Dr. George M. Hopper, Dean/Director
Dr. James P. Shepard, Department Head and Graduate Coordinator
P.O. Box 9681
Mississippi State, MS 39762-9681
662-325-2949
forestrygrad@cfr.mssstate.edu

Graduate study is offered in the Department of Forestry leading to the degrees of Master of Science (M.S.) in Forestry and Doctor of Philosophy (Ph.D.) in Forest Resources. Specialized areas of study include forest business, forest management and economics, forest genetics and biotechnology, forest hydrology and soils, silviculture, forest biometrics, spatial technologies in natural resource management, forest harvesting and operations, forest recreation, and wildlife economics. Graduate research assistantships are available to qualified students.

Admission—Admission to the M.S. program in the Department of Forestry requires: 1) a bachelor’s degree from an accredited university; 2) a grade point average [GPA] of 3.00 or higher for the last 60 hours of undergraduate study [for regular admission] or a GPA between 2.5 and 2.99 [for provisional admission]; 3) a TOEFL score of 550 or higher for regular admission of international students or a TOEFL score between 475 and 549 for conditional admission; and 4) acceptance by a faculty member who will serve as the major professor. In addition, Graduate Record Exam (GRE) scores may be requested of students applying for provisional admission or international students applying from non-accredited universities.

Admission to the Ph.D. program in the Department of Forestry requires: 1) a bachelor’s degree from an accredited university and M.S. degree in a related field [or approval for exceptions to the master’s requirement]; 2) a GPA of 3.10 or higher on prior graduate courses or 3.25 or higher for the last 60 hours of undergraduate study [for exceptions to master’s requirement]; 3) a TOEFL score of 550 or higher for regular admission of international students or a TOEFL score between 475 and 549 for conditional admission; and 4) acceptance by a faculty member who will serve as the major professor. In addition, Graduate Record Exam (GRE) scores may be requested of international students applying from non-accredited universities. There is no provisional admission to the doctoral program.

Program of Study—A minimum of 30 hours of graduate study is required for the M.S. degree. All 30 hours will be in academic course work for the non-thesis option and will include FO 8293 “Master of Forestry Professional Paper.” At least 24 hours of course work and six hours of “Thesis Research/Thesis” credit will be required for the Thesis Option, and a thesis must be written. A comprehensive oral final examination will be administered on course work taken and the professional paper or thesis.

The doctoral student’s graduate committee will determine the number of course hours required for the Ph.D. degree based on the student’s academic background, the courses currently available at MSU, the MSU requirement of 20 hours of Research/Dissertation, and any requirement of full-time enrollment for an assistantship. Typically, a Ph.D. program may involve approximately 60 hours of course and research work. Other requirements include a preliminary/comprehensive examination, a final oral examination, and a dissertation.

Provisional Admission—Provisional admission does not apply to doctoral applicants. Only master’s degree applicants may be accepted on a provisional basis. Students who have a GPA between 2.50 and 2.99 for the last 60 semester hours of their undergraduate program may be admitted in provisional status, if accepted by a faculty member in the department. Scores on the GRE’s General Test may be required by that faculty member to evaluate the student’s potential to complete the program successfully.
Provisional students must receive a 3.00 or higher GPA on the first nine hours of graduate level courses on their programs of study at MSU in order to achieve regular status. If a 3.00 is not attained, the provisional student will be dismissed from the graduate program. While in the provisional status, students are not eligible to hold a graduate assistantship.

Academic Performance—A graduate student must maintain a 3.00 GPA to remain on assistantship and must have a 3.00 GPA to receive his/her degree. If a student starts the program in regular status and falls below a 3.00 cumulative GPA after the start of the program, that student will be placed on probationary status in the following semester and required to regain a 3.00 GPA by the end of the probationary semester. If this is not accomplished, the student will be dismissed from the graduate program. A student admitted on provisional status will not be allowed a probationary semester but will be dismissed if the GPA falls below 3.00.

Prerequisite and Core Courses—There are no prerequisite or core graduate level courses required of all graduate students in the Department of Forestry. Each area of emphasis and each student’s research or professional paper assignment will influence what courses are required.

For the M.S. program of study at least nine credit hours of graduate-level forestry courses must be taken. If a minor is chosen, at least nine hours in the minor area must be taken, and a committee member from the minor area is required. For the Ph.D. program at least 12 hours of graduate-level course work in the area of emphasis should be included, preferably in forestry courses. If a minor is chosen, at least 12 hours in the minor area must be taken, and a committee member from the minor area is required.

In conjunction with the student, the student’s graduate committee will determine what courses are best for the student. For the M.S. thesis-option, one-half of the course work (thesis hours excluded) must be at the 8000 level. For the non-thesis option, at least 15 hours of course work must be at the 8000 level.

Completion Requirements—Completion of the M.S. program requires passing at least 30 hours of academic course work for the non-thesis option or a minimum of 12 hours of academic course for the thesis option with a GPA of 3.00 or higher. Writing a professional paper or thesis, passing a final comprehensive defense of thesis or paper, completing all required changes, securing final approval of the professional paper or thesis, and formally applying for graduation before the deadline published in the University Academic Calendar.

Completion of the Ph.D. program requires at least three years of study to satisfy residency requirements, passing all courses in the approved doctoral program of study with a GPA of 3.00 or higher after admission to the program, passing a preliminary/comprehensive examination for admission to candidacy when within six hours of completing course work, writing a dissertation, passing a final comprehensive defense of dissertation, completing all required changes, securing final approval of the dissertation, and formally applying for graduation before the deadline published in the University Academic Calendar.

Graduate-Level Courses in Forestry—Course prerequisites are noted in parentheses.

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>FO 6113</td>
<td>Forest Resource Economics (AEC 2713 or equivalent)</td>
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<tr>
<td>FO 6121</td>
<td>Principles of Silviculture Laboratory (corequisite: FO 6123)</td>
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<tr>
<td>FO 6123</td>
<td>Principles of Silviculture (FO 3012 or consent of instructor; corequisite FO 6121)</td>
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<td>FO 6213</td>
<td>Forest Biometrics (FO 3102, FO 3101, and FO 3015, or consent of instructor)</td>
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<tr>
<td>FO 6221</td>
<td>Practice of Silviculture Laboratory (FO 4123/6123 or WF 4223; corequisite FO 6223)</td>
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<td>FO 6223</td>
<td>Practice of Silviculture (FO 4123/6123, FO 4121/6121 or WF 3133 and WF 4223; corequisite FO 6221)</td>
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<td>FO 6231</td>
<td>Forest Operations and Harvesting Laboratory (FO 3015 or consent of instructor)</td>
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<td>FO 6233</td>
<td>Forest Operations and Harvesting (FO 3015 and FO 4231/6231, or consent of instructor)</td>
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<tr>
<td>FO 6243</td>
<td>Tree Genetics and Reforestation (BIO 1203)</td>
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<tr>
<td>FO 6253</td>
<td>Timber Procurement (FO 4231/6231, FO 4233/6233 or consent of instructor)</td>
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<tr>
<td>FO 6311</td>
<td>Spatial Technologies in Natural Resources Management Laboratory (FO 3015 or consent of instructor; corequisite FO 6313)</td>
<td>1</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>FO 6313</td>
<td>Spatial Technologies in Natural Resources Management (FO 3015 or consent of instructor; corequisite FO 6311). 3 hours</td>
<td>FO 6317</td>
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<tr>
<td>FO 6321</td>
<td>Forest Resource Management Laboratory (corequisite: FO 6323). 1 hour</td>
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<tr>
<td>FO 6323</td>
<td>Forest Resource Management (FO 4213/6213, FO 4113/6113, FO 4233/6233, FO 4231/6231, FO 4223/6223; corequisite FO 6321). 3 hours</td>
<td>FO 6323</td>
</tr>
<tr>
<td>FO 6343</td>
<td>Forest Administration and Organization. 3 hours</td>
<td>FO 6343</td>
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<tr>
<td>FO 6353</td>
<td>Forestry Law (consent of instructor). 3 hours</td>
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<tr>
<td>FO 6413</td>
<td>Natural Resources Policy. 3 hours</td>
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<tr>
<td>FO 6421</td>
<td>Professional Practices Laboratory (corequisite: FO 6423). 1 hour</td>
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<tr>
<td>FO 6423</td>
<td>Professional Practices (FO 4323/6323, FO 4321/6321; corequisite FO 6421). 3 hours</td>
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<tr>
<td>FO 6443</td>
<td>International Forest Resources and Trade (consent of instructor). 3 hours</td>
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<tr>
<td>FO 6451</td>
<td>Remote Sensing Applications Laboratory (corequisite: FO 6452). 1 hour</td>
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<td>FO 6452</td>
<td>Remote Sensing Applications (a basic course in air photo interpretation or consent of instructor; corequisite FO 6451). 2 hours</td>
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<tr>
<td>FO 6463</td>
<td>Forest Hydrology (PSS 3301, PSS 3303, FO 4223/6223, and FO 4221/6221, or consent of instructor). 3 hours</td>
<td>FO 6463</td>
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<tr>
<td>FO 6471</td>
<td>GIS for Natural Resource Management Laboratory (corequisite: FO 6472). 1 hour</td>
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<td>FO 6472</td>
<td>GIS for Natural Resource Management (corequisite: FO 6471). 2 hours</td>
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<tr>
<td>FO 6483</td>
<td>Forest Soils (PSS 3301, PSS 3303, FO 4121/6121, FO 4123/6123 or consent of instructor). 3 hours</td>
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<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>FO 6631</td>
<td>Tree Form and Function Laboratory (introductory statistics such as ST 2113 or FO 4213/6213, graduate standing or consent of instructor; corequisite FO 6633). 1 hour</td>
<td>FO 6633</td>
<td>Tree Form and Function (BIO 1203; corequisite FO 6631). 3 hours</td>
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<tr>
<td>FO 6633</td>
<td>Tree Form and Function (BIO 1203; corequisite FO 6631). 3 hours</td>
<td>FO 6990</td>
<td>Special Topics in Forestry. 1 to 9 hours</td>
</tr>
<tr>
<td>FO 7000</td>
<td>Directed Individual Study. 1 to 3 hours</td>
<td>FO 8000</td>
<td>Thesis Research/Thesis. 1 to 13 hours</td>
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<tr>
<td>FO 8111</td>
<td>Graduate Seminar (first year of study). 1 hour</td>
<td>FO 8113</td>
<td>Forest Ecophysiology (FO 4633/6633, BIO 4214/6214 or consent of instructor). 3 hours</td>
</tr>
<tr>
<td>FO 8133</td>
<td>Forest Ecophysiology (FO 4633/6633, BIO 4214/6214 or consent of instructor). 3 hours</td>
<td>FO 8143</td>
<td>Advanced Forest Economics. 3 hours</td>
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<td>FO 8143</td>
<td>Advanced Forest Economics. 3 hours</td>
<td>FO 8153</td>
<td>Quantitative Forest Ecology (MA 1723 and ST 8114 or consent of instructor). 3 hours</td>
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<td>FO 8153</td>
<td>Quantitative Forest Ecology (MA 1723 and ST 8114 or consent of instructor). 3 hours</td>
<td>FO 8163</td>
<td>Nonmarket Forest Values (FO 4113/6113 or consent of instructor). 3 hours</td>
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<tr>
<td>FO 8163</td>
<td>Nonmarket Forest Values (FO 4113/6113 or consent of instructor). 3 hours</td>
<td>FO 8173</td>
<td>Advanced Spatial Technologies (introductory course in remote sensing or GIS, or consent of instructor). 3 hours</td>
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<tr>
<td>FO 8211</td>
<td>Graduate Seminar (last year of study). 1 hour</td>
<td>FO 8213</td>
<td>Advanced Silviculture (FO 4223/6223 or consent of instructor). 3 hours</td>
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<td>FO 8213</td>
<td>Advanced Silviculture (FO 4223/6223 or consent of instructor). 3 hours</td>
<td>FO 8223</td>
<td>Seminar in Forest and Wildland Resources and Use. 3 hours</td>
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<tr>
<td>FO 8233</td>
<td>Advanced Forest Inventory. 3 hours</td>
<td>FO 8233</td>
<td>Advanced Forest Inventory. 3 hours</td>
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<tr>
<td>FO 8293</td>
<td>Master of Forestry Professional Paper. 3 hours</td>
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General Business
(See Management and Information Systems)

General Engineering
James Worth Bagley College of Engineering
Dr. Kirk Schulz, Dean
Dr. Roger L. King, Associate Dean for Research and Graduate Studies
250 McCain Engineering Building
662-325-2270

The following courses are provided for proper scheduling of research/dissertation required in the program of Doctor of Philosophy in engineering (with composite major) candidates. Ph.D. programs in the College of Engineering, including engineering physics, do not require a foreign language or a special research skill.

GE 6990 Special Topics in General Engineering. 1-9 hours
GE 8990 Special Topics in General Engineering. 1-9 hours
GE 9000 Research/Dissertation. 20 hours

Genetics
An Interdisciplinary Curriculum
College of Agriculture and Life Sciences
Dr. Vance Watson, Dean
Dr. David Peebles, Graduate Coordinator
Box 9665
Mississippi State, MS 39762
E-Mail: dpeebles@poultry.msstate.edu
Telephone: 662-325-3379

An opportunity is offered to the student who wishes to work toward the Master of Science degree in Agricultural Life Sciences with a concentration in Genetics. The Genetics Program is an interdisciplinary curriculum which utilizes the staff and facilities available in the various departments and colleges. A wide array of plant and animal material is available for genetic investigation.

The student’s complete program will be formulated in the department of his/her choice. Courses contributing to the major in genetics are listed below.

Admission—TOEFL scores are used following the General Requirements for Admission by the University. Cooperative agreement with a major advisor prior to admission is essential.

Program of Study/Completion
Requirements—A comprehensive exam, 24 total hours of course work, and a thesis (minimum of six hours) are required for completion of the thesis degree. A comprehensive exam and 30 total hours of course work are required for the non-thesis degree. Specific courses and a graduate seminar class may be required as part of the six additional course credits in the non-thesis option as specified by the graduate committee. The students planning a major or minor in genetics should select the GNS prefix for each course when applicable.

Provisional Admission—A student who has not fully met the requirements stipulated by the University and the appropriate department for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. Such student must have as his or her initial objective advancement to regular status.

A provisional student must receive a 3.00 GPA on the first nine hours of graduate level courses on the program of study taken at Mississippi State University (transfer hours or unclassified graduate hours will not apply) in order to achieve
regular status. If a 3.00 is not attained, the provisional student will be dismissed from graduate study. While in the provisional status, the student is not eligible to hold a graduate assistantship.

**Academic Performance**—A candidate for a degree must average B or higher on all courses attempted for graduate credit after admission to the program. No grade under C will be accepted for graduate credit; thus, a student will be terminated if he or she obtains more than two grades below a C in courses taken for graduate credit or fails to obtain a C or better in any repeated course. With the approval of the graduate coordinator and the college dean, a student may repeat one course per degree except for those approved for repeated credit (e.g. internships, special topics, individual studies, thesis, dissertation, etc.). Both courses will remain on the permanent transcript and both grades will be computed in final averages. This policy applies to all courses (even those not on the program of study) taken as a graduate student related to a specific program. Repeat courses must be taken at Mississippi State University. No additional program credit hours will be generated from a repeated course. Graduate students are not permitted to enroll for courses carrying pass/fail credit.

**Prerequisite**—A Bachelor of Science in the biological or physical sciences will be considered as a prerequisite for receiving graduate credit for the courses listed below.

*The Ph.D. program has been suspended. However, a Ph.D degree in Agriculture and Life Sciences with an emphasis in Genetics is offered. Please see catalog description.

**Department**  
**Representative**  
**Title**

<table>
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<tr>
<th>Department</th>
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<th>Department</th>
<th>Title</th>
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<tr>
<td>Plant and Soil Sciences</td>
<td>Associate Professor B. S. Baldwin</td>
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<td>Associate Professor L. Hanson</td>
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<tr>
<td>Animal and Dairy Sciences</td>
<td>Professor M. E. Boyd</td>
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<td>Professor J. N. Jenkins</td>
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<tr>
<td>Entomology</td>
<td>Assistant Professor M. A. Caprio</td>
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<td>Professor S.B. Land, Jr.</td>
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<tr>
<td>Biological Sciences</td>
<td>Associate Professor J. C. Courcelle</td>
<td>Biological Sciences</td>
<td>Professor J. C. McCarty, Jr.</td>
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<tr>
<td>Plant and Soil Sciences</td>
<td>Professor R.G. Creech</td>
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<td>Professor E. D. Peebles</td>
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<tr>
<td>Biological Sciences</td>
<td>Professor W. J. Diehl</td>
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<td>Professor G. T. Pharr</td>
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<td>Veterinary Medicine</td>
<td>Associate Professor T. P. Wallace</td>
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<td>Professor G. V. Pinchuk</td>
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<tr>
<td>USDA-ARS</td>
<td>Adjunct Professor W. P. Williams</td>
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<td>Professor N. Reichert</td>
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<td>Professor D. A. Wise</td>
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<td>Professor G. T. Pharr</td>
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<tr>
<td>Plant and Soil Sciences</td>
<td>Professor D. A. Wise</td>
<td>Plant and Soil Sciences</td>
<td>Professor E. D. Peebles</td>
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**Graduate Courses**—Course prerequisites are noted in parentheses.

**Genetics:**

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<tbody>
<tr>
<td>GNS 6123</td>
<td>Animal Breeding (PO 3103) [same as ADS 6123]. 3 hours</td>
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<tr>
<td>GNS 6133</td>
<td>Human Genetics (same as BIO 4133/6133). 3 hours</td>
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<tr>
<td>GNS 6713</td>
<td>Molecular Biology (BCH 4613/6613) [same as BCH 4713/6713]. 3 hours</td>
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<tr>
<td>GNS 6804</td>
<td>Biochemical Methods [BCH 4613/6613] [same as BCH 4805/6805]. 5 hours</td>
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<td>GNS 6990</td>
<td>Special Topics in Genetics. 1-9 hours</td>
</tr>
<tr>
<td>GNS 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
</tr>
<tr>
<td>GNS 8000</td>
<td>Research/Thesis. 6 hours</td>
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GNS 8143  Biometrical Genetics in Plant Breeding [same as PSS 8543]. 3 hours
GNS 8453  Statistical Genetics [same as PSS 8453]. 3 hours
GNS 8643  Molecular Genetics (PO 3103 or ZO 3103 and coregistration in BCH 4613/6613) [same as BCH 8643 and PHY 8643]. 3 hours
GNS 8990  Special Topics in Genetics. 1-9 hours

Geosciences
College of Arts and Sciences
Dr. Philip B. Oldham, Dean
Dr. Darrel W. Schmitz, Department Head
Dr. Chris Dewey, Graduate Coordinator
Hilbun 109
662-325-3915
martha@geosci.msstate.edu

Admission—The Department of Geosciences offers graduate study leading to the Master of Science degree in Geoscience. An applicant to the program must have an undergraduate GPA of at least 2.75 on a scale of 4.00. The application package must contain the Application of Admission, at least two letters of reference, official transcripts from all colleges previously attended, and a statement of purpose. The general GRE is recommended but not required. A student admitted to the Broadcast Meteorology emphasis area can only begin studies in the fall term.

Program of Study/Completion Requirements—Both a thesis track and a non-thesis track are available. The thesis option requires 24 hours of course work including GR 8542 or GG 8572, GG 8561, a comprehensive exam, and a thesis. The non-thesis option (normally for students in Broadcast Meteorology only) requires 36 hours of course work including a research methods course, a research project presentation, and a written and oral comprehensive examination. Both options require competency of either statistics or a foreign language. Through the Teachers In Geosciences (TIG) program, the department also offers a suite of distance-learning courses primarily for teachers by utilizing videotaped lectures and the internet for course instruction. The department has recently developed a new emphasis in Geographic Information Systems (GIS).

A student who is admitted in the graduate program in Geosciences with an emphasis area of Broadcast Meteorology must successfully complete a background assessment test in meteorology. This test will be administered during the spring of each year. A student failing this test must successfully complete (grade of B or better) the GR 1603 Intro to Meteorology course from MSU by Distance Learning before starting his or her initial enrollment on campus for study in broadcast meteorology.

Provisional Admission—A student with an undergraduate GPA of 2.50 to 2.74 may gain provisional admission to the program. Provisional students must receive a 3.00 GPA on the first nine hours of graduate level courses on the program of study taken at MSU in order to achieve regular admission status. Transfer and unclassified graduate hours do not apply.

Academic Performance—A graduate student in Geosciences must maintain a cumulative 3.00 GPA on the program of study after admission to the program. A maximum of two C grades is allowed during the entire program of study, with the student being placed on probation after the second C grade. A third C grade will result in dismissal from the program. A student in the Broadcast Meteorology emphasis area who earns a C or lower grade in the first year of graduate study will be required to take a proficiency exam in the summer before the second year. Unsatisfactory performance on the exam will result in dismissal from the program.

Graduate Courses—Course prerequisites are noted in parentheses.

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<tr>
<th>Course Code</th>
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<th>Credit Hours</th>
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<tr>
<td>GG 6033</td>
<td>Resources and the Environment (consent of instructor)</td>
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<tr>
<td>GG 6113</td>
<td>Micropaleontology (GG 1123 or equivalent)</td>
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<td>GG 6114</td>
<td>Mineralogy (GG 1113, CH 1223 or consent of instructor)</td>
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<td>GG 6123</td>
<td>Petrology (GG 4114/6114 or equivalent)</td>
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<td>GG 6133</td>
<td>Principles of Paleoeocology (GG 1123 or equivalent or consent of instructor)</td>
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<td>GG 6153</td>
<td>Engineering Geology (GG 1113 or equivalent)</td>
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<td>GG 6201</td>
<td>Practicum in Paleontology (GG 1123 or equivalent). 1 hour</td>
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<td>GG 6203</td>
<td>Principles of Paleobiology (GG 1123 or equivalent). 3 hours</td>
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<td>GG 6233</td>
<td>Applied Geophysics (consent of instructor). 3 hours</td>
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<td>GG 6304</td>
<td>Principles of Sedimentary Deposits I (GG 4114/6114 or consent of instructor). 4 hours</td>
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<td>GG 6333</td>
<td>Geowriting. 3 hours</td>
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<td>GG 6403</td>
<td>Gulf Coast Stratigraphy (GG 4304/6304 or consent of instructor). 3 hours</td>
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<td>Structural Geology (GG 4123/6123 or consent of instructor). 3 hours</td>
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<td>GG 6433</td>
<td>Subsurface Methods (GG 4304/6304 or equivalent). 3 hours</td>
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<td>GG 6443</td>
<td>Principles of Sedimentary Deposits II (GG 4304/6304 or equivalent). 3 hours</td>
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<td>GG 6503</td>
<td>Geomorphology (consent of instructor). 3 hours</td>
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<td>GG 6523</td>
<td>Coastal Environments (GG 1113, GR 1114 or consent of instructor). 3 hours</td>
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<td>GG 6613</td>
<td>Physical Hydrogeology (GG 2613 or consent of instructor). 3 hours</td>
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<td>Chemical Hydrogeology (CE 3523, CE 8563, or GG 4613/6613 or consent of instructor). 3 hours</td>
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<td>Special Topics in Geology. 1-9 hours</td>
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<td>GG 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
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<td>GG 8000</td>
<td>Research/Thesis. 6 hours</td>
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<td>GG 8113</td>
<td>Processes and Products (consent of instructor). 3 hours video and on-line</td>
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<td>GG 8123</td>
<td>Geology II: Earth, Time, and Life (GG 8113 or consent of instructor). 3 hours video and on-line</td>
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<td>GG 8164</td>
<td>Earth Sciences I (consent of department head). 4 hours</td>
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<td>Ocean Science (GG 8113 or consent of instructor). 3 hours video and on-line</td>
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<td>GG 8223</td>
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<td>GG 8233</td>
<td>Environmental Geoscience (GG 8113 or consent of instructor). 3 hours video and on-line</td>
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<td>GG 8333</td>
<td>Planetary Science (GG 8113 or consent of instructor). 3 hours video and on-line</td>
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<td>GG 8413</td>
<td>Paleomagnetism (consent of instructor). 3 hours</td>
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<td>GG 8443</td>
<td>Advanced Structural Geology (major in geology including GG 4413/6613 or equivalent). 3 hours</td>
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<td>GG 8561</td>
<td>Geoscience Seminar. 1 hour</td>
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<td>Geologic Literature (major in geology). 2 hours</td>
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<td>GG 8613</td>
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<td>GG 8713</td>
<td>Regional Geology of Eastern North America (major in geology). 3 hours</td>
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<td>GG 8723</td>
<td>Regional Geology of Western North America (major in geology). 3 hours</td>
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<td>GG 8990</td>
<td>Special Topics in Geology. 1-9 hours</td>
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<td>GR 6123</td>
<td>Urban Geography. 3 hours</td>
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<td>Geography of North America. 3 hours</td>
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<td>Geography of Latin America. 3 hours</td>
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<td>GR 6233</td>
<td>Geography of Asia. 3 hours</td>
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<td>GR 6243</td>
<td>Geography of Russia and the Former Soviet Republics. 3 hours</td>
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<td>GR 6253</td>
<td>Geography of Africa. 3 hours</td>
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<td>GR 6263</td>
<td>Geography of the South. 3 hours</td>
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<td>GR 6273</td>
<td>Geography of Mississippi. 3 hours</td>
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<td>Principles of GIS (consent of instructor). 3 hours</td>
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<td>GR 6313</td>
<td>Advanced GIS (GR 4303/6303 or consent of instructor). 3 hours</td>
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<td>GR 6323</td>
<td>Cartographic Sciences (consent of instructor). 3 hours</td>
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<td>Remote Sensing of the Physical Environment (GR 3303, 3311, or consent of instructor). 3 hours</td>
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<td>GR 6402</td>
<td>Weather Analysis I (GR 1603 or equivalent). 2 hours</td>
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<td>Weather Analysis II (GR 4402/6402). 2 hours</td>
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<td>Weather Forecasting I (GR 4412/6412). 2 hours</td>
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<td>GR 6432</td>
<td>Weather Forecasting II (GR 4422/6422). 2 hours</td>
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<td>GR 6502</td>
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<td>Practicum in Broadcast Meteorology IV (GR 4522/6522). 2 hours</td>
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<td>GR 6603</td>
<td>Climatology (GR 1114 or GR 1123, or equivalent). 3 hours</td>
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<td>GR 6613</td>
<td>Applied Climatology (GR 1603 or equivalent). 3 hours</td>
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<td>GR 6633</td>
<td>Statistical Climatology (GR 1603 or GG 1113 or equivalent). 3 hours</td>
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<td>GR 6640</td>
<td>Meteorological Internship (consent of instructor). 1-6 hours</td>
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<td>GR 6753</td>
<td>Satellite and Radar Meteorology (GR 4723/6723). 3 hours</td>
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<td>GR 6923</td>
<td>Severe Weather (GR 4913/6913 or equivalent). 3 hours</td>
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<td>Synoptic Meteorology I (GR 1603 or equivalent). 3 hours</td>
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<td>GR 6723</td>
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<td>GR 6813</td>
<td>Natural Hazards and Processes (GR 1114 or equivalent). 3 hours</td>
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<td>GR 6913</td>
<td>Thermodynamic Meteorology (GR 4723/6723 or equivalent). 3 hours</td>
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<td>GR 7000</td>
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<td>GR 8000</td>
<td>Research/Thesis. 6 hours</td>
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<td>GR 8113</td>
<td>Meteorology I: Observations (consent of instructor). 3 hours video and on-line</td>
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<td>GR 8123</td>
<td>Meteorology II: Forecasting and Storms (GR 8113 or consent of instructor). 3 hours video and on-line</td>
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<tr>
<td>GR 8303</td>
<td>Geodatabase Systems (consent of instructor). 3 hours</td>
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<tr>
<td>GR 8313</td>
<td>Advanced Cultural Geography (consent of instructor). 3 hours</td>
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<td>GR 8323</td>
<td>Geography for Teachers. 3 hours</td>
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<tr>
<td>GR 8400</td>
<td>Field Methods in Geoscience (consent of instructor). 1-3 hours</td>
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<tr>
<td>GR 8542</td>
<td>Geographic Literature (major or minor in geography). 2 hours</td>
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<tr>
<td>GR 8553</td>
<td>Research Methods in Geosciences (consent of instructor). 3 hours</td>
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<tr>
<td>GR 8990</td>
<td>Special Topics in Geosciences. 3 hours</td>
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</table>
Gerontology Concentration
An Interdisciplinary Concentration

College of Education
Dr. Richard Blackbourn, Dean
Montgomery Hall 208
662-325-3426

The graduate-level Gerontology concentration is a multidisciplinary approach to provide students with current factual and theoretical data relating to aging. The program is available both to degree and non-degree graduate students. A certificate is awarded upon the completion of nine hours of specified course work, six hours of approved electives, and three hours of research or internship. For those students earning the certification in conjunction with an advanced degree in such disciplines as sociology, psychology, counseling, etc., the program would constitute a gerontology concentration within the respective discipline.

For further information, contact Dr. Carolyn Adams-Price, Coordinator, Graduate-Level Gerontology Concentration, Magruder Hall 203, P.O. Box 6161, Mississippi State, MS 39762, 662-325-7658

Requirements include:

1. Three of the following courses:
   - ABE 6513  Dynamics of Aging. 3 hours
   - HE 6863  Consumer Aspects of Aging. 3 hours
   - PE 8153  Wellness of Aging. 3 hours
   - PSY 6983  Psychology of Aging. 3 hours
   - SO 6413  Aging and Retirement in American Society. 3 hours

2. A research project or internship in Gerontology.

3. Two electives from the following approved courses:
   - COE 6713  Issues in Aging. 3 hours
   - COE 8813  Counseling Elderly Clients. 3 hours
   - HS 6243  Nutrition Throughout the Life Cycle. 3 hours
   - HS 6333  Families, Legislation, and Public Policy. 3 hours
   - HS 6813  Adult Development: The Middle Years. 3 hours
   - HS 8243  Community Nutrition. 3 hours
   - PSY 8813  Developmental Psychology. 3 hours

History

College of Arts and Sciences
Dr. Philip B. Oldham, Dean
Dr. Alan I. Marcus, Department Head
Dr. Peter Messer, Graduate Coordinator
214 Allen Hall
P.O. Box H
Mississippi State, MS 39762
662-325-3604
e-mail: correspondence@history.msstate.edu

The Department of History offers programs leading to the Master of Arts and Doctor of Philosophy degrees. Fields for the Master’s degree are: United States, Europe, Latin America, Asia, Africa, and World. Fields for the PhD. Degree are: United States and Europe. A student may choose a minor field of study outside the History Department with concurrence of his or her advisor. Not all of the fields listed above are available for dissertation research or as the major field for a Master of Arts degree.

Admission Criteria—The History Department expects an applicant to have a GPA of 3.00 in the last two years of undergraduate study. The prerequisite for admission to a graduate program in history is a minimum of 18 hours of undergraduate history courses; for a graduate minor in history, 12 hours of undergraduate history courses are required. A Ph.D. applicant must submit the Graduate Record Examination (GRE) and must submit a writing sample directly to the Graduate Coordinator of the History Department. Applicants who received the M.A. in History from MSU are not required to take the GRE. Examples of acceptable writing samples are publications, chapters from a thesis, or a seminar paper.

An international student intending to pursue a graduate degree in history must meet all regular requirements and, in addition, present a Test of English as a Foreign Language score of 550 or higher. This requirement does not apply to international students with degrees from an American institution nor to students from countries where English is the primary language.
The applicant should understand that the History Department uses the statement of purpose as a major factor in making admissions decisions. It is to the applicant’s advantage to take special care in completing this statement. The applicant should add additional pages to the statement of purpose if necessary. Before the History Department admits a student, a member of the graduate faculty must personally agree to serve as that student’s major professor and graduate advisor. To facilitate the selection of an advisor the applicant should explain his/her fields of interest in the statement of purpose. An applicant whose quantitative credentials meet the stated criteria may still be denied admission because of qualitative factors. Completed applications must be received in the History Department by November 1 for admission for the spring semester and by April 1 for admission for the fall semester. Normally, applicants will receive an admission decision within 30 days after the receipt of all required materials by the department.

Program of Study/Completion Requirements:
Master of Arts Degree—The History Department offers the Master of Arts degree with an emphasis in United States, European, Latin American, African, Asian, or World History. A student may choose between a thesis and a non-thesis degree program. Each student will choose a primary and a secondary area of emphasis. The primary field will be drawn from one of the department’s areas of emphasis: United States, European, Latin American, Asian, African, or World History. The secondary field for a thesis student will be drawn from either another one of the department’s areas of emphasis, or a topical field related to a particular region or historical phenomenon. A minor is available in a field outside of history and will include at least nine semester hours. The thesis degree program should be elected by those contemplating further graduate work in history or by those who want to explore a particular topic in depth. A degree candidate with a thesis must also demonstrate proficiency in one research skill which may be either reading proficiency in a foreign language or proficiency in quantitative methods. The non-thesis program is designed for students planning to enter secondary education or who want to develop a broad understanding of history for a variety of other reasons. The secondary area of emphasis for a non-thesis degree candidate must be drawn from a geographic region other than the one the student has selected for the primary field. The non-thesis program does not require a research skill.

Each candidate for the M.A. degree must complete HI 8923 Historiography and Historical Method at Mississippi State. During the first semester of enrollment, each graduate student in conjunction with his or her advisor will develop a program of study describing all courses, research skill requirements, and activities that must be completed in order to earn a degree. Each student must have a graduate committee composed of three graduate faculty members who will oversee the student’s progress toward the M.A. degree and conduct a written comprehensive examination and an oral defense of it at the conclusion of the student’s graduate studies. At least two of the committee members must be members of the History Department’s graduate faculty. If a minor from outside the department is selected, one member must be from the minor area of study.

Each Master’s degree candidate will complete a four-hour comprehensive examination at the completion of graduate studies. The examination will cover both primary and secondary fields and will be taken at a time and in a format determined by the student’s graduate committee. The student choosing the thesis option will also be expected to provide an oral defense of the thesis at the conclusion of her/his graduate studies.

Doctor of Philosophy Degree—The History Department offers the Ph.D. degree with a primary emphasis in either United States or European History. The student is required to prepare for examination in four fields. Two will be chronological fields in the primary area (U.S. or Europe), and the other two fields will be topical or regional fields, or in a discipline other than history. A minor outside the History Department must include at least 12 hours. The student should refer to the History Department’s list of available fields for information regarding primary and secondary fields. Each student must hold a master’s degree and/or possess other qualifications that demonstrate an ability to do graduate work at the doctoral level.

The department expects that the student will normally complete at least 60 hours of coursework beyond the bachelor’s degree for the Ph.D. degree in history. Credit earned in a master’s degree program at Mississippi State or elsewhere may be used to satisfy requirements for the doctoral program if it is appropriate to the candidate’s doctoral fields and acceptable to the student’s graduate committee. Each student pursuing the Ph.D. degree in history must demonstrate proficiency in two research skills. This requirement may be fulfilled by demonstrating reading knowledge of two foreign languages, or by demonstrating a reading proficiency in one foreign language and proficiency in quantitative methods. Each candidate must complete, or have completed,
HI 8923 Historiography and Historical Method at Mississippi State.

The prospective Ph.D. candidate must understand that work toward a Ph.D. degree is different from other academic work he or she may have undertaken. The holder of a Ph.D. degree is assumed to have mastered his or her field of study and to have developed an ability to do original research and to make original contributions to knowledge. It is the responsibility of the student’s major professor and committee members to determine when this level of understanding has been reached. It cannot be measured by the number of courses completed, and the exact number required of each student in the History Department may vary.

Each student must have a graduate committee composed of at least five graduate faculty members. The chairman must be from the student’s major field and must be a full member of the graduate faculty. He or she will normally be the student’s future dissertation director. The committee will include at least one minor professor and at least three other members. Four members of the committee must be members of the History Department’s graduate faculty.

When the student and major professor agree that adequate preparation has been made, the major professor will schedule a comprehensive examination. A full-time Ph.D. student should normally take the comprehensive examination within three years of enrollment, and a part-time Ph.D. student should take the comprehensive examination within four years of enrollment. The student must have either completed all coursework or be within six hours of completing the coursework. The student must have fulfilled the research skills requirement and must have met all other History Department and the Office of Graduate Studies requirements. Each student will take four written comprehensive examinations. A student will be allowed one day for each field, and the four examinations must be completed within a two-week period. Faculty members who have collaborated in preparing a student for a particular field may contribute to one examination. The student’s committee will then decide if the quality of the written examinations warrants proceeding to the oral examination. If the student fails either the written or oral part of the comprehensive examination, she or he may retake it after the passage of four months. A second failure will result in termination from the program.

After passing comprehensive examinations, the student must submit a dissertation proposal which must be approved in writing by all members of the student’s graduate committee before the student will be admitted to candidacy for the Ph.D. The dissertation proposal must include at least the topic, historical question to be answered, hypothesis answering that question, and sources to be consulted. The dissertation proposal must specify both the director and the second reader. No candidate will be granted a dissertation fellowship until the approved dissertation proposal is on file in the History Department office.

The composition of the candidate’s graduate committee for the dissertation need not be identical to the committee which conducts the comprehensive examination. The second reader of a dissertation will be actively involved in the dissertation process. The second reader will be kept informed of the progress the candidate is making in the research; the second reader will be provided and will comment upon drafts of outlines and chapters as the candidate writes them.

The dissertation must show the candidate’s mastery of research methods in history and must make an original contribution to scholarship in the candidate’s field. The dissertation must reflect at least 20 semester hours of dissertation research.

The candidate’s graduate committee must approve the dissertation and administer a final oral examination (defense). The dissertation must be provided to the members of the committee at least fourteen days before the defense.

For additional information contact the Graduate Coordinator, Department of History, P.O. Box H, Mississippi State, MS 39762, e-mail histgradco@org.msstate.edu or call 662-325-3604 and obtain the Department’s Handbook.

Academic Performance—Although one C grade may be included in a graduate program, the History Department views C grades as evidence of unsatisfactory work. A student who earns a second C grade will be dismissed from the program. Students earning one grade of D or F will also be dismissed from the program. A candidate for degree must have achieved a B average by the end of the course work.

Provisional Admission—An applicant not satisfying the minimum quantitative requirements or lacking an adequate background in history may be granted provisional admission. An applicant admitted on a provisional basis must earn a 3.00 GPA in his or her first nine hours of graduate work at MSU after admission to the program. Transfer hours or unclassified graduate hours may not be used. Students admitted provisionally because of inadequate undergraduate preparation in history may be
asked to take additional courses at the undergraduate level.

**Prerequisites and Core Courses:**

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<td>Colonial America</td>
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<td>HI 6113</td>
<td>U.S. History 1783-1825</td>
<td>3</td>
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<td>HI 6123</td>
<td>Jacksonian America, 1825-1850</td>
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<td>HI 6133</td>
<td>Civil War and Reconstruction, 1850-1877</td>
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<td>HI 6143</td>
<td>Revolutionary America</td>
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<td>HI 6153</td>
<td>U.S. History, 1877-1917</td>
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<td>HI 6163</td>
<td>U.S. History, 1917-1945</td>
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<td>HI 6173</td>
<td>U.S. History Since 1945</td>
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<td>HI 6183</td>
<td>U.S. Economic History</td>
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<tr>
<td>HI 6193</td>
<td>U.S. Environmental History</td>
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<tr>
<td>HI 6203</td>
<td>Diplomatic History of the U.S.</td>
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<tr>
<td>HI 6213</td>
<td>History of Grand Strategy and International Security.</td>
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<tr>
<td>HI 6233</td>
<td>War, Peace, and Society: The American Experience</td>
<td>3</td>
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<tr>
<td>HI 6243</td>
<td>American Life and Thought</td>
<td>3</td>
</tr>
<tr>
<td>HI 6253</td>
<td>Religion in America (HI 1063 or 1073)</td>
<td>3</td>
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<tr>
<td>HI 6263</td>
<td>America’s Viet Nam War</td>
<td>3</td>
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<tr>
<td>HI 6273</td>
<td>Women in American History</td>
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<tr>
<td>HI 6283</td>
<td>History of Southern Women</td>
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<tr>
<td>HI 6303</td>
<td>The Old South</td>
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<tr>
<td>HI 6313</td>
<td>The New South</td>
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<tr>
<td>HI 6323</td>
<td>The American West</td>
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<tr>
<td>HI 6333</td>
<td>Native American History to 1830</td>
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<tr>
<td>HI 6343</td>
<td>Native American History Since 1830</td>
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<tr>
<td>HI 6363</td>
<td>African-American History and Culture</td>
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<tr>
<td>HI 6373</td>
<td>History of the Modern Civil Rights Movement</td>
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<tr>
<td>HI 6403</td>
<td>The Ancient Near East</td>
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<td>HI 6413</td>
<td>Ancient Greece and Rome</td>
<td>3</td>
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<tr>
<td>HI 6423</td>
<td>Medieval Civilization</td>
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<tr>
<td>HI 6443</td>
<td>Renaissance and Reformation</td>
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<tr>
<td>HI 6523</td>
<td>Europe, 1789-1914</td>
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<td>HI 6563</td>
<td>Viet Nam Between Revolution and War, 1940-1990</td>
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<td>China Since 1800</td>
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<td>HI 6593</td>
<td>Japan Since 1600</td>
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<td>HI 6603</td>
<td>Medieval Civilization</td>
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<td>HI 6623</td>
<td>The Vikings</td>
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<td>HI 6643</td>
<td>Renaissance and Reformation</td>
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<tr>
<td>HI 6653</td>
<td>The History of Science and Technology</td>
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<tr>
<td>HI 6673</td>
<td>Europe, 1789-1914</td>
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<tr>
<td>HI 6683</td>
<td>Europe: The First World War to Hitler</td>
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<td>HI 6693</td>
<td>Europe: The Second World War to the Common Market</td>
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<td>HI 6703</td>
<td>England to 1485</td>
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<td>HI 6713</td>
<td>Tudor and Stuart England</td>
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<tr>
<td>HI 6733</td>
<td>Constitutional and Legal History of England</td>
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<tr>
<td>HI 6753</td>
<td>History of Russia</td>
<td>3</td>
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<tr>
<td>HI 6763</td>
<td>History of Modern Germany</td>
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<td>HI 6773</td>
<td>History of Modern France</td>
<td>3</td>
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<tr>
<td>HI 6783</td>
<td>African Civilization to 1880</td>
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<tr>
<td>HI 6793</td>
<td>Modern Africa. 3 hours</td>
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<td>HI 6813</td>
<td>History of Modern Civil Rights Movement. 3 hours</td>
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<td>HI 6833</td>
<td>Colonial Latin America. 3 hours</td>
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<tr>
<td>HI 6843</td>
<td>Latin-American Republics. 3 hours</td>
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<td>HI 6853</td>
<td>Modern Mexico. 3 hours</td>
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<tr>
<td>HI 6903</td>
<td>The Far East. 3 hours</td>
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<tr>
<td>HI 6913</td>
<td>The Administration of Archives and Manuscript Collections. 3 hours</td>
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<tr>
<td>HI 6923</td>
<td>A Practicum in Archival Administration (HI 4913/6913). 3 hours</td>
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<tr>
<td>HI 6990</td>
<td>Special Topics in History. 1-9 hours</td>
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<td>HI 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
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<tr>
<td>HI 8000</td>
<td>Research/Thesis. 6 hours</td>
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<td>HI 8103</td>
<td>Readings in Colonial American History. 3 hours</td>
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<td>HI 8113</td>
<td>Readings in U.S. History, 1783-1825. 3 hours</td>
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<td>HI 8123</td>
<td>Readings in Jacksonian America. 3 hours</td>
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<td>HI 8133</td>
<td>Readings in the Civil War and Reconstruction. 3 hours</td>
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<td>HI 8153</td>
<td>Readings in U.S. History, 1877-1917. 3 hours</td>
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<td>HI 8163</td>
<td>Reading in Contemporary United States. 3 hours</td>
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<tr>
<td>HI 8203</td>
<td>Readings in American Diplomatic History. 3 hours</td>
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<td>HI 8233</td>
<td>Readings in American Military History. 3 hours</td>
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<td>HI 8263</td>
<td>Readings in American Economic Developments. 3 hours</td>
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<td>HI 8273</td>
<td>Readings in Women in American History. 3 hours</td>
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<td>HI 8283</td>
<td>Readings in Women in Southern History. 3 hours</td>
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<tr>
<td>HI 8293</td>
<td>Readings in History of American Families. 3 hours</td>
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<td>HI 8303</td>
<td>Readings in the Old South. 3 hours</td>
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<td>HI 8313</td>
<td>Readings in the New South. 3 hours</td>
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<td>HI 8323</td>
<td>Readings in the American West. 3 hours</td>
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<td>HI 8353</td>
<td>Readings in African-American History and Culture. 3 hours</td>
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<td>HI 8403</td>
<td>Readings in Ancient History. 3 hours</td>
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<td>HI 8423</td>
<td>Readings in Medieval History. 3 hours</td>
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<td>HI 8443</td>
<td>Readings in Renaissance and Reformation. 3 hours</td>
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<td>HI 8503</td>
<td>Readings in European History, 1600-1789. 3 hours</td>
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<td>HI 8523</td>
<td>Readings in European History, 1789-1914. 3 hours</td>
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<td>HI 8533</td>
<td>Readings in European History, 1914-Present. 3 hours</td>
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<td>HI 8613</td>
<td>Readings in English History, 1485-1714. 3 hours</td>
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<td>HI 8623</td>
<td>Readings in English History Since 1714. 3 hours</td>
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<tr>
<td>HI 8733</td>
<td>Readings in Colonial Latin America. 3 hours</td>
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<td>HI 8743</td>
<td>Readings in Latin-American Republics. 3 hours</td>
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<td>HI 8753</td>
<td>Readings in Russian History. 3 hours</td>
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<td>HI 8763</td>
<td>Readings in the Far East. 3 hours</td>
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<tr>
<td>HI 8803</td>
<td>Graduate Colloquium. 3 hours</td>
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<tr>
<td>HI 8813</td>
<td>Seminar in U.S. History Before 1877. 3 hours</td>
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<tr>
<td>HI 8823</td>
<td>Seminar in U.S. History Since 1877. 3 hours</td>
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<tr>
<td>HI 8833</td>
<td>Seminar in Southern History. 3 hours</td>
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<tr>
<td>HI 8843</td>
<td>Seminar in Latin-American History. 3 hours</td>
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<tr>
<td>HI 8853</td>
<td>Seminar in European History Before 1789. 3 hours</td>
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HI 8863  Seminar in European History Since 1789. 3 hours
HI 8883  U.S. Agricultural History, 1500-2000. 3 hours
HI 8913  Seminar in Quantitative Methods for Historical Research. 3 hours
HI 8923  Historiography and Historical Method. 3 hours
HI 8933  Colloquium in Colonial and Revolutionary America. 3 hours
HI 8943  Colloquium in U.S. History from 1787-1877. 3 hours
HI 8953  Colloquium in U.S. History from 1877-1945. 3 hours
HI 8963  Colloquium in U.S. History from 1945-Present. 3 hours
HI 8990  Special Topics in History. 1-9 hours
HI 9000  Research/Dissertation. 20 hours

6333, HS 6813, and HS 6863. To secure additional information about graduate offerings in the School of Human Sciences, contact Dr. Jan Cooper Taylor, Professor and Graduate Coordinator, P. O. Box 9745, Mississippi State, MS 39762-9745 or email jctaylor@humansci.msstate.edu.

**Graduate Courses**—Course prerequisites are noted in parentheses.

HS 6313  Family Resource Management. 3 hours
HS 6323  Consumer Issues and Policy (HS 3303 or consent of instructor). 3 hours
HS 6333  Families, Legislation and Public Policy. 3 hours
HS 6343  Apparel Design II (HS 1533 or consent). 3 hours
HS 6353  Nutrition throughout the Life Cycle. (BIO 4253/6253). 3 hours
HS 6403  Introduction to Gerontology. 3 hours
HS 6424  Teaching Methods in Agricultural and Human Sciences. 4 hours
HS 6440  Workshop in Human Sciences. 1-3 hours
HS 6450  Work Experience in Human Sciences Related Occupations. 3-6 hours
HS 6513  Social-Psychological Aspects of Clothing (3 hours sociology or 3 hours psychology). 3 hours
HS 6583  Entrepreneurship for Human Sciences. 3 hours
HS 6710  Study Tour. 1-3 hours
HS 6733  Computer-Aided Design (CS 1013 or equivalent). 3 hours
HS 6803  Art of Parenting. 3 hours
HS 6813  Adult Development: The Middle Years (PSY 1053 and junior standing). 3 hours
HS 6823  Development and Administration of Child Service Programs. 3 hours
HS 6843  Family Interaction (SO 1203 and PSY 1013 or HS 4853). 3 hours

**Horticulture**
(See Plant and Soil Sciences)

**Human Sciences**
College of Agriculture and Life Sciences

Dr. Vance Watson, Dean
Dr. Gary Jackson, Director
Lloyd Ricks 128 and Moore Hall
662-325-2950

The School of Human Sciences offers graduate courses for a minor and selected certificates in Human Sciences in cooperation with other degree programs. Areas of emphasis are available in the following program areas: apparel, textiles and merchandising; and human development and family studies. The School also participates in the graduate Women’s Studies by offering HS 6313, HS 6403, and HS 6513; and the Gerontology Certificate by offering HS 6353, HS 6403, and HS 6863. To secure additional information about graduate offerings in the School of Human Sciences, contact Dr. Jan Cooper Taylor, Professor and Graduate Coordinator, P. O. Box 9745, Mississippi State, MS 39762-9745 or email jctaylor@humansci.msstate.edu.
Industrial Engineering
James Worth Bagley College of Engineering

Dr. Kirk Schulz, Dean
Dr. Roger L. King, Associate Dean for Research and Graduate Studies
Dr. Royce Bowden, Department Head
Dr. Stanley Bullington, Graduate Coordinator
260 McCain Building
662-325-3865
Email: bullington@ie.msstate.edu

Graduate study is offered in the Department of Industrial Engineering leading to a Master of Science degree in Industrial Engineering. The department also offers the Ph.D. in Engineering with a major in Industrial Engineering. Major areas of study are: industrial systems, operations research, manufacturing systems, management systems engineering, and ergonomics/human factors. A limited number of research and teaching assistantships are available.

Admission Criteria—Entering graduate students with a bachelor’s degree must have a grade point average of 3.00 out of 4.00 for the junior and senior years. Entering Ph.D. students must have a grade point average of 3.30 out of 4.00 on a M.S. degree. Those entering students with a bachelor’s degree from a program that is not accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET) must submit GRE general-test scores. International students must have a minimum TOEFL score of 550 (213 computer-based test).

Program of Study/Completion
Requirements—The thesis-option Master of Science in Industrial Engineering requires at least 24 credit hours of course work above the baccalaureate degree with at least one-half of the course work at the 8000 level or above and six or more credit hours of thesis/research. A thesis and an oral comprehensive examination in defense of the thesis are required. The non-thesis Master of Science requires at least 33 credit hours of course work above the baccalaureate degree as well as a written and oral comprehensive final exam on the course work. At least fifteen hours for the M.S. non-thesis degree must be from 8000-level courses or above. The specific courses required depend upon the student’s area of concentration. Doctoral students must complete at least 30 hours of course work beyond the M.S. level including at least 18 hours of Industrial Engineering courses and at least six hours of mathematics or statistics courses. All doctoral students must complete IE 6623 and IE 6773 or equivalent as part of their graduate program. Twenty hours of research, a preliminary examination, a dissertation, and an oral examination in defense of the dissertation are required.

Provisional Admission—If a student does not fully meet the admission requirements of the program, it may be possible for that student to be provisionally admitted. If provisionally admitted, the student must attain a 3.00 GPA on the first nine hours of graduate courses at Mississippi State University after admission to the program. Transfer hours or unclassified graduate hours will not apply. If a 3.00 GPA is not attained, the student will be dismissed from the graduate program.

Unsatisfactory Performance— Unsatisfactory performance in the graduate program in Industrial Engineering is defined as any of the following: failure to maintain a 3.00 average in the M.S. program or 3.30 average in the Ph.D. program, failure of the preliminary exam (Ph.D. students only), failure of the comprehensive final exam (M.S. non-thesis option only), unsatisfactory evaluation of thesis or dissertation, or a failure of a required component of the program of study. Any one of these will constitute the basis for review for possible dismissal. The graduate coordinator will review the record along with the student’s graduate committee and will recommend a final course of action, which will be immediate dismissal or the establishment of a probationary period in which corrective action must take place. Appeal of dismissal can be made by submitting a written appeal statement to the department head. If, upon the student’s appeal, the dismissal is upheld by the department.
head, the student can then submit a written appeal to the dean of the College of Engineering.

**Graduate Courses**—Course prerequisites are noted in parentheses.

IE 6113  Human Factors Engineering.  3 hours

IE 6123  Psychology of Human-Computer Interaction (Psy 3713 or CS 4663/6663 or IE 4113/6113 or consent of instructor).  3 hours

IE 6173  Occupational Safety Engineering.  3 hours

IE 6333  Production Control Systems I (IE 4613/6613).  3 hours

IE 6353  Materials Handling (IE 3124).  3 hours

IE 6373  Automation.  3 hours

IE 6393  Concurrent Engineering.  3 hours

IE 6513  Engineering Administration.  3 hours

IE 6533  Project Management (IE4613/6613).  3 hours

IE 6543  Logistics Engineering (IE 4613/6613).  3 hours

IE 6553  Engineering Law & Ethics.  3 hours

IE 6573  Process Improvement Engineering.  3 hours

IE 6613  Engineering Statistics I (MA 1723).  3 hours

IE 6623  Engineering Statistics II (grade of C or better in IE 4613/6613).  3 hours

IE 6653  Industrial Quality Control I (IE 4613/6613).  3 hours

IE 6673  Reliability Engineering (IE 4613/6613, MA 3253).  3 hours

IE 6713  Operations Research I (CSE 1213 and IE 4613/6613).  3 hours

IE 6733  Linear Programming I (CSE 1213 and MA 3113).  3 hours

IE 6743  Engineering Design Optimization (IE 4613/6613).  3 hours

IE 6753  Systems Engineering and Analysis (IE 4613).  3 hours

IE 6773  Systems Simulation I (IE 4613/6613, CSE 1233 or equivalent).  3 hours

IE 6923  Six Sigma Methods and Project (IE 4623/6623).  3 hours

IE 6934  Information Systems for Industrial Engineering.  4 hours

IE 6990  Special Topics in Industrial Engineering.  1-9 hours

IE 7000  Directed Individual Study.  1-6 hours

IE 8000  Research/Thesis.  Hours and credits to be arranged

IE 8153  Cognitive Engineering.  3 hours

IE 8333  Production Control Systems II (IE 4333/6333 and consent of instructor).  3 hours

IE 8343  Artificial Intelligence in Manufacturing (computer programming ability and consent of instructor).  3 hours

IE 8353  Manufacturing Systems Modeling. (IE 4733 and IE 4773).  3 hours

IE 8373  Computer Integrated Manufacturing (consent of instructor).  3 hours

IE 8533  Production Control Systems II (IE 4333/6333 and consent of instructor).  3 hours

IE 8583  Enterprise Systems Engineering (consent of instructor).  3 hours

IE 8713  Mechanics and Control of Manufacturing Systems.  3 hours

IE 8723  Operations Research II (IE 4713/6713).  3 hours

IE 8733  Decision Theory (IE 4613/6613).  3 hours

IE 8735  Manufacturing Systems Modeling. (IE 4733 and IE 4773).  3 hours

IE 8743  Nonlinear Programming I (IE 4733/6733 or MA 4733/6733).  3 hours

IE 8823  Neural Networks In Optimization (IE 4733/6733).  3 hours

IE 8913  Engineering Economy II (IE 3913 and IE 4713).  3 hours

IE 8923  Six Sigma Methods and Project (IE 4623/6623).  3 hours

IE 8934  Information Systems for Industrial Engineering.  4 hours

IE 8990  Special Topics in Industrial Engineering.  1-9 hours

IE 9000  Research/Thesis.  Hours and credits to be arranged

IE 9153  Cognitive Engineering.  3 hours

IE 9333  Production Control Systems II (IE 4333/6333 and consent of instructor).  3 hours

IE 9343  Artificial Intelligence in Manufacturing (computer programming ability and consent of instructor).  3 hours

IE 9353  Manufacturing Systems Modeling. (IE 4733 and IE 4773).  3 hours

IE 9373  Computer Integrated Manufacturing (consent of instructor).  3 hours

IE 9513  Engineering Administration.  3 hours

IE 9533  Project Management (IE4613/6613).  3 hours

IE 9543  Logistics Engineering (IE 4613/6613).  3 hours

IE 9553  Engineering Law & Ethics.  3 hours

IE 9573  Process Improvement Engineering.  3 hours

IE 9613  Engineering Statistics I (MA 1723).  3 hours

IE 9623  Engineering Statistics II (grade of C or better in IE 4613/6613).  3 hours

IE 9653  Industrial Quality Control I (IE 4613/6613).  3 hours

IE 9673  Reliability Engineering (IE 4613/6613, MA 3253).  3 hours

IE 9713  Operations Research I (CSE 1213 and IE 4613/6613).  3 hours

IE 9733  Linear Programming I (CSE 1213 and MA 3113).  3 hours

IE 9743  Engineering Design Optimization (IE 4613/6613).  3 hours

IE 9753  Systems Engineering and Analysis (IE 4613).  3 hours

IE 9773  Systems Simulation I (IE 4613/6613, CSE 1233 or equivalent).  3 hours
Industrial Technology
(See Instructional Systems, Leadership, and Workforce Development)

Instructional Systems, Leadership, and Workforce Development
College of Education
Dr. Richard Blackbourn, Dean
Dr. Anthony Olinzock, Department Head and Graduate Coordinator
Industrial Education Building 100
662-325-2281
olinzock@colled.msstate.edu

The Department of Instructional Systems, Leadership and Workforce Development offers graduate course work leading to master’s degrees in Educational Leadership, Instructional Technology, Technology, Workforce Education Leadership, and a Master of Arts in Teaching in Community College Education. The master’s degree programs are offered with a thesis option and require a minimum of 30 semester credit hours and a comprehensive examination. The non-thesis option is also offered. The educational specialist, the doctor of education, and the doctor of philosophy degrees may be earned with a program emphasis in Educational Administration or Technology. The Ph.D. degrees in Community College Leadership and in Elementary, Middle, and Secondary Education Administration are also available. For more information, contact the Department of Instructional Systems, Leadership and Workforce Development, Box 9730, Mississippi State, MS 39762; telephone 662-325-2281, fax 662-325-7599, or email olinzock@colled.msstate.edu.

Admission Criteria—Prerequisites for admission into the graduate program include all the general requirements of the Office of Graduate Studies. In addition, scores from all sections of the GRE must be submitted. International students must obtain a TOEFL score of 550 or higher.

Program of Study/Completion Requirements —
The master’s degrees require the following credit hours of course work above the baccalaureate degree for the non-thesis option: Master of Science in Instructional Technology, 33 hours; Master of Science in Technology, 30 hours; Master of Science in Workforce Education Leadership, 33 hours, Master of Science in School Administration, 39 hours, and MAT in Community College Education, 33-36 hours. At least 15 hours must be from 8000-level courses or above, and a minimum of 15 credit hours must be department courses. A written comprehensive examination is required. Students who elect the thesis option must complete an oral comprehensive examination in defense of the thesis.

Educational Specialist students must complete at least 30 semester hours above the Master’s degree, and one-half or more of the hours must be 8000 level courses or above. A thesis (six credit hours) or a Directed Individual Study (three credit hours) is required. A final written comprehensive examination is required.

Doctoral students are required to complete a minimum of 90 hours of course work above the baccalaureate degree, at least two-thirds of which must be from 8000 level courses or above. Each student is assigned a major professor and a committee. A formal program of study is developed by the student with the advice and concurrence of the student’s major professor and other committee members during the student’s second semester of enrollment. Twenty hours of dissertation research, written and oral preliminary examinations, a dissertation, and an oral examination in defense of the dissertation are required.

Provisional Admission—If a student does not fully meet the admission requirements of the program, it may be possible for that student to be admitted provisionally. If admitted provisionally, the student must attain a 3.00 GPA on the first nine hours of graduate courses at Mississippi
State University after admission to the program. Transfer or unclassified graduate credit cannot be used to fulfill this requirement. If a 3.00 GPA is not attained, the student may be dismissed from the graduate program.

Contingent Admission—A student may be given a department-contingent admission. In this case the department will establish requirements the student must meet before regular admission is granted, such as completing specific courses with a grade of B or higher or completing required course work if the student does not have an undergraduate degree in an appropriate area for graduate study in the department.

Academic Performance—Unsatisfactory performance is defined as making more than two grades of C or lower in courses taken for graduate credit or failure to maintain a B average in graduate courses attempted after admission to the program (i.e., program and non-program courses). In addition, failure of the comprehensive/preliminary examination, an unsatisfactory evaluation of a thesis or dissertation, failure of the research defense, or any other failure of a required component of one’s program of study is unsatisfactory performance. Any one of these or a combination of these will constitute a basis for review for possible dismissal.

If unsatisfactory performance is determined, the graduate coordinator, the major professor, and the dean will review the student’s record and determine a course of action. Appeal of dismissal can be made by submitting a written appeal statement to the graduate coordinator and/or department head. If the dismissal is upheld by the graduate coordinator and/or department head upon the student’s appeal, the student can then submit a written appeal to the Dean of the College of Education.

Instructional Systems and Workforce Development

Master of Science in Technology (M.S.T.)

Required Courses:
EDF 8353 Principles of Curriculum Development. 3 hours
EDF 8363 Functions and Methods of Research in Education. 3 hours

Teacher Education Majors must meet these additional requirements:
TKT 8263 Philosophy and Administration of Vocational Education. 3 hours
TKT 8213 Content and Method of Teaching in Career and Technical Education. 3 hours

Master of Science in Instructional Technology (M.S.I.T.)

Prerequisite Courses:
TKT 1273 Microcomputers in Education. 3 hours
TKB 6283 Advanced Office Systems. 3 hours
One of the following two courses:
TKB 6543 Advanced Information Processing. 3 hours
TKT 6743 Presenting with Media. 3 hours

Required courses:
TKT 8703 Trends and Issues in Instructional Systems. 3 hours
TKT 8713 Seminar in Research and Development. 3 hours
TKT 8723 Instructional Design for Industry. 3 hours
TKT 8200 Internship in Vocational Education and Technology. 1-6 hours
TKT 8793 Directed Project in Instructional Technology. 3 hours

Master of Science, Workforce Education Leadership (W.E.L.)—This program is offered jointly through Mississippi State University and Alcorn State University (ASU). Courses offered only at Mississippi State University may be taken by distance education by ASU students; courses offered only at ASU may be taken by distance education by MSU students. Students at either school must take some course work at the other school, usually via distance education techniques.

Required Courses:
Instructional Technology and Workforce Education. 9 hours

Offered at MSU only:
TKT 8233 Occupational Surveys, Placement and Follow-up. 3 hours
TKT 8272 Instructional Design for Industry. 2 hours
TKT 8763 Seminar in Planning for Instructional Technology. 3 hours
TKT 8773 Teaching and Training with Media. 3 hours
Offered at ASU only:
IE 552  School-to-Work Initiatives
IE 578  Welfare-to-Work Programs
IE 579  Federal and State Job Training Programs
IE 589  Vocational Administration Certification Course

Other required courses:
EDF 8363  Functions and Methods of Research in Education. 3 hours
TKT 8203  Internship in Workforce Development. 3 hours
AIS 8523  Teaching Out-of-School Groups. 3 hours
MGT 8513  Human Resource Management. 3 hours
SO 8303  Rural Sociology. 3 hours
MGT 9813  Seminar in Organizational Behavior. 3 hours
CCL 8113  History and Philosophy of the Community College. 3 hours

Educational Specialist Degree-Technology (Ed.S.)—Required courses:
EPY 6114  Educational and Psychological Statistics. 4 hours
TKT 8793  Directed Project in Instructional Technology. 3 hours
TKT 8000 or Thesis Research. 6 hours
or Additional courses selected with approval of the student’s graduate committee and the graduate coordinator. Program must include at least 30 credit hours of course work.

Doctor of Education-Technology (Ed.D) Required College Core—Minimum of 21 hours:
EPY 8214  Advanced Educational and Psychological Statistics. 4 hours
EPY 9213  Advanced Analysis in Educational Research. 3 hours
EPY 8223  Psychological Foundations of Education. 3 hours
EDF 9313  Philosophy of Education. 3 hours
EDF 8363  Function and Methods of Research in Education. 3 hours
EDF 9373  Educational Research Design. 3 hours

NOTE: Additional courses selected with approval of student’s graduate committee and the graduate coordinator.

The program also includes an area of emphasis (24-36 hours), minor (12-30 hours), dissertation research (20 hours) and electives (12 hours).

Doctor of Philosophy-Technology Emphasis (Ph.D.) Required College Core—Minimum of 22 hours:
EPY 8214  Advanced Educational and Psychological Statistics. 4 hours
EPY 9213  Advanced Analysis of Educational Research. 3 hours
EDF 8363  Function and Methods of Research in Education. 3 hours
EDF 9373  Educational Research Design. 3 hours
EDF 9313  Philosophy of Education. 3 hours
EPY 8223  Psychological Foundations of Education. 3 hours

NOTE: Additional courses selected with approval of student’s graduate committee and the graduate coordinator.

The program also includes an area of emphasis (24-36 hours), minor (12-18 hours), dissertation research (20 hours) and electives (11-13 hours).

Department Courses—Course prerequisites are noted in parentheses.

Technology:
TKT 6073  Instructional Materials Development and Use in Vocational Education. 3 hours
TKT 6103  Delivery of the Vocational-Technical Instructional Program. 3 hours
TKT 6143  History and Philosophy of Vocational and Technical Education. 3 hours
TKT 6183  Coordination of Part-Time Education. 3 hours
TKT 6213  Teaching Basic Business Subjects. 3 hours
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TKT 6223</td>
<td>Management of the Vocational-Technical Learning Environment.</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKT 6233</td>
<td>Design of the Vocational-Technical Instructional Program.</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKT 6253</td>
<td>Evaluation and Measurement of Students in Vocational Education And Technology.</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKT 6713</td>
<td>Authoring for Instruction (TKT 1273 or consent of instructor).</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKT 6733</td>
<td>Managing a Multimedia Learning Environment.</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKT 6743</td>
<td>Presenting with Media.</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKT 6753</td>
<td>Electronic Presentations.</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKT 6853</td>
<td>Philosophy and Principles of Vocational-Technical Instruction.</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKT 6990</td>
<td>Special Topics in Technology Teacher Education.</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>TKT 7000</td>
<td>Directed Individual Study.</td>
<td>1-6 hours</td>
</tr>
<tr>
<td>TKT 8000</td>
<td>Thesis Research/Thesis.</td>
<td>6 hours</td>
</tr>
<tr>
<td>TKT 8200</td>
<td>Internship in Vocational Education and Technology.</td>
<td>1-6 hours</td>
</tr>
<tr>
<td>TKT 8213</td>
<td>Content and Method of Teaching in Career and Technology Education.</td>
<td>3 hours</td>
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<tr>
<td>TKT 8233</td>
<td>Career Planning and Occupational Decision Making.</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKT 8263</td>
<td>Philosophy and Administration of Vocational Education.</td>
<td>3 hours</td>
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<tr>
<td>TKT 8273</td>
<td>Seminar in Vocational Education and Technology.</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKT 8703</td>
<td>Trends and Issues in Instructional Systems.</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKT 8723</td>
<td>Instructional Design for Industry.</td>
<td>3 hours</td>
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<tr>
<td>TKT 8733</td>
<td>Telecommunications: Applications in Scholarship.</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKT 8743</td>
<td>Interactive Media.</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKT 8763</td>
<td>Seminar in Planning for Instructional Technology.</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKT 8773</td>
<td>Teaching and Training with Multimedia.</td>
<td>3 hours</td>
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<tr>
<td>TKT 8793</td>
<td>Directed Project in Instructional Technology.</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKT 8803</td>
<td>Design and Evaluation of Instructional Software (TKT 1273).</td>
<td>3 hours</td>
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<tr>
<td>TKT 8813</td>
<td>Issues in Distance Education.</td>
<td>3 hours</td>
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<tr>
<td>TKT 8833</td>
<td>Design and Implementation of Data Networks.</td>
<td>3 hours</td>
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<tr>
<td>TKT 8990</td>
<td>Special Topics in Technology Teacher Education.</td>
<td>1-9 hours</td>
</tr>
<tr>
<td>TKT 9000</td>
<td>Research/Dissertation.</td>
<td>20 hours</td>
</tr>
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**Industrial Education:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TKI 6113</td>
<td>Industrial Fluid Power (PH 1113 and TKI 3103).</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKI 6203</td>
<td>Automated Systems (TKI 4103).</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKI 6213</td>
<td>Survey of Energy Sources and Power Technology (three semester hours of physical science or other physics).</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKI 6223</td>
<td>Quality Assurance (BQA 2113, ACC 1203).</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKI 6263</td>
<td>Manufacturing Technology and Processing (TKI 3363).</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKI 6303</td>
<td>Industrial Robotics (TKI 4103).</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKI 6990</td>
<td>Special Topics in Industrial Technology.</td>
<td>1-9 hours</td>
</tr>
</tbody>
</table>

**Business Technology:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TKB 6283</td>
<td>Advanced Office Systems (TKT 1273).</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKB 6583</td>
<td>Graphics and Web Design.</td>
<td>3 hours</td>
</tr>
<tr>
<td>TKB 6990</td>
<td>Special Topics in Business Technology.</td>
<td>1-9 hours</td>
</tr>
</tbody>
</table>

**Admission Criteria for Master’s Degree (M.S.T., M.S.I.T., W.E.L.):**

- 2.75 undergraduate GPA minimum from a four year accredited institution or a 3.0 graduate GPA minimum.
- GRE scores
Admission Criteria for Education Specialist Degree—Same as for the Master’s degree, plus have earned a Master’s degree from an accredited institution.

Program of Study for Master’s and Educational Specialist Degrees:
- Minimum number of hours required for the Master’s degree: 30-33
- Minimum number of hours required for the Education Specialist degree: 30
- An comprehensive examination is required for both the Master’s and Education Specialist degrees.

Educational Leadership
Master of Science and Educational Specialist Degrees in Educational Leadership

Admission Criteria—A GPA of 2.75 on the last one-half of undergraduate work is required. A GPA of 3.00 on prior graduate work is required for the Master’s degree, and a GPA of 3.20 is required on prior graduate work for the Educational Specialist degree. The GRE is also required. Additional requirements include an entry interview, an entry portfolio, letters of recommendation, and evidence of teaching experience. An applicant should contact the department for specific guidelines.

Program of Study—The Master of Science degree in Educational Leadership requires 39 hours, and the Educational Specialist degree requires 42 hours.

Prerequisite and Core Courses for Master’s and Specialist Degrees:
- EDL 8990 Technology for Educational Leaders. 3 hours
- EDL 8113 Contexts of Educational Leadership. 3 hours
- EDL 8123 Principles of Educational Leadership. 3 hours
- EDF 8363 Functions and Methods of Research. 3 hours
- EDL 8143 Educational Leaders as Instructional Leaders. 3 hours
- EDL 8163 Educational Budgeting and Resource Allocation. 3 hours
- EDL 8173 Legal and Ethical Perspectives of Leadership in Schools. 3 hours
- EDL 8193 Educational Environments. 3 hours
- EDL 8213 Internship I. 1 hour

EDL 8223 Internship II. 2 hours
EDL 8233 Internship III. 3 hours
EDL 7000 Directed Individual Study (for Ed. Specialist Degree students only). 3 hours

Doctor of Philosophy in Community College Leadership

Admission Criteria—To be eligible for regular admission to the program, the applicant must hold a Master’s degree from an accredited institution, meet the basic requirements specified for graduate students at Mississippi State University, and demonstrate academic proficiency based on the following indicators:
- Grade point average (GPA) of 3.40 on a 4.00 scale for all graduate-level credit hours completed
- Graduate Record Examination results
- Writing sample
- Structured interview
- Current résumé

Foundation and Core Courses for Doctor of Philosophy:
- CCL 8113 History and Philosophy of the Community College. 3 hours
- CCL 8123 Community College Finance and Budgeting. 3 hours
- CCL 8233 Community College Legal Issues. 3 hours
- CCL 8333 Organization and Administration of the Community College. 3 hours
- EDA 8283 Educational Leadership. 3 hours
- EDA 8383 Ethical Decision Making in Educational Administration. 3 hours

Interdisciplinary Requirements (21 hours):
- SO 8303 Rural Sociology. 3 hours
- PPA 9613 Rural Government Administration I. 3 hours
- EC 6313 Introduction to Regional Economics. 3 hours
- EC 6333 Applied Regional Economics. 3 hours
- PPA 9623 Rural Government Administration II. 3 hours
AEC 8993 Rural Community and Economic Development. 3 hours
EDA 8993 Principles of Educational Facilities Design. 3 hours

Prerequisite Course:
EPY 6214 Educational and Psychological Statistics. 3 hours

Core Courses:
CCL 8113 History and Philosophy of the Community College. 3 hours
CCL 8123 Community College Finance and Budgeting. 3 hours
CCL 8233 Community College Legal Issues. 3 hours
CCL 8333 Organization and Administration of the Community College. 3 hours
EDA 8283 Educational Leadership. 3 hours
EDA 8383 Ethical Decision Making in Educational Leadership. 3 hours

Research Requirements (13 hours):
EDF 9373 Educational Research Design. 3 hours
EPY 8214 Advanced Educational and Psychological Statistics. 3 hours
PPA 8733 Public Program Evaluation. 3 hours
EDA 8353 Applications of Theory to Educational Administration. 3 hours
EDA 9000 Research/Dissertation. 20 hours

Additional Requirements (38-50 hours):
Electives (3-6 hours)
CCL Internship (optional)
EDA 8213 Internship (optional)
Career Concentration/Minor Area (12-18 hours)**
Dissertation (20 hours)

**A total of 12-18 hours may be taken from courses in business, arts and sciences, relevant education areas, engineering, etc. Twelve hours in a content area and a minor committee member are required to declare a minor. The Southern Association of Colleges and Schools requires 18 graduate hours in a teaching field for community college instructors. Those students who fail to meet SACs requirements will be required to complete 18 hours.

NOTE: Students must complete all University and college requirements, include satisfaction of the research tool requirement. EPY 6214 Educational and Psychological Statistics or a similar course is a prerequisite for EPY 8214 Statistics (prerequisite for EPY 8214 Advanced Educational and Psychological Statistics).

Completion Requirements—Twenty hours of research/dissertation must be completed. Doctoral candidates are required to meet with committee members to prepare and present the dissertation proposal. A minimum of four committee members is required, five if the student has declared a minor.

Elementary, Middle, and Secondary Education Administration
Doctor of Philosophy in Elementary, Middle, and Education Administration

Admission Criteria—To be eligible for admission to the program, an applicant must be a practitioner holding Mississippi or reciprocal administrative licensure, have a Master’s or Educational Specialist degree from an accredited institution, and meet basic requirements for doctoral students as published in The Graduate Studies Bulletin of the Office of Graduate Studies at Mississippi State University.

An applicant must submit a résumé documenting career accomplishments in professional education and satisfy requirements for graduate study as outlined in the University’s graduate application packet (e.g., Letters of Recommendation, statement of purpose, transcripts, etc.).

The applicant must have a minimum 3.40 GPA on a 4.00 scale for all previous graduate work completed.

The applicant must submit acceptable scores for each of the four sections of the Graduate Record Examination (GRE).

In a brief paper the applicant should discuss what he/she has learned from prior PK-12 administrative practice.

In a personal interview the applicant should demonstrate potential for achieving excellence as an educational administrator.

A student accepted into the program is expected to have his or her own personal computer and Internet access. Approximately 10-20 students will be accepted annually.

Program of Study—Four distinct but connected thematic strands comprise the curriculum: 1) leading and managing in educational
environments, 2) applied research, 3) educational foundations, and 4) dissertation research.

1) Leading and Managing in Educational Environments (24 hours)
The focus of this strand is leadership and management. To satisfy the requirements, the student must select and successfully complete (3.00 grade point average) a minimum of eight educational administration courses listed below:
- EDA 8163 Public School Finance. 3 hours
- EDA 8173 School Law. 3 hours
- EDA 8193 Workshop in Educational Administration and Supervision. 3 hours
- EDA 8210 Internship in Supervision and Administration. 3 hours
- EDA 8223 Seminar in Educational Administration. 3 hours
- EDA 8233 Educational Facilities Design. 3 hours
- EDA 8273 Educational Administration and Supervision. 3 hours
- EDA 8283 Educational Leadership. 3 hours
- EDA 8293 Professional Development of Educational Personnel. 3 hours
- EDA 8323 Applications of Theory to Educational Administration. 3 hours
- EDA 8353 Ethical Decision Making in Educational Administration. 3 hours
- EDA 8383 Special Topics in Educational Administration. 3 hours
- EDA 8990 Special Topics in Educational Administration. 3 hours

The specific number of courses in Educational Leadership required for a particular student may vary depending on previous degrees and experience. In many instances, credit is given for previous courses taken in earning Master's and/or Educational Specialist degree(s).

2) Applied Research (15 hours)
The focus of this strand is on applied statistics and research methods. To satisfy the requirements, the student must select and successfully complete a minimum of five research courses from the list below:
- EPY 6214 Educational and Psychological Statistics. 4 hours
- EPY 8214 Advanced Educational and Psychological Statistics. 4 hours
- EDF 8363 Function and Methods of Research in Education. 3 hours
- EDF 9213 Advanced Analysis in Educational Research. 3 hours
- EPY 9263 Applied Research Seminar. 3 hours
- EDF 9373 Educational Research Design. 3 hours
- EDF 9443 Single-Subject Research Designs in Education. 3 hours
- EDF 9453 Qualitative Techniques in Educational Research. 3 hours
- EPY 9213 Advanced Analysis in Educational Research. 3 hours
- EDF 9373 Educational Research Design. 3 hours
- EDF 9443 Single-Subject Research Designs in Education. 3 hours
- EDF 9453 Qualitative Techniques in Educational Research. 3 hours
Whenever feasible, the student's dissertation research should address problems particular to elementary, middle, or secondary education administration.
In addition to successfully completing at least five applied research courses, students are expected to demonstrate competency in research skills in one of three ways:

a. publish a research paper in a recognized journal,
b. present a research paper at an annual meeting of a regional or national association, or
c. pass an examination in statistics and applied research administered in the department.

3) Educational Foundations (12 hours)
The focus of this strand is on core foundational courses. To satisfy the requirements, the student must select and successfully complete (3.00 grade point average) a minimum of four foundation courses from the list below:
- EPY 8223 Psychological Foundations of Education. 3 hours
- EDF 8313 Philosophy of Education. 3 hours
- EDF 8323 Comparative Education. 3 hours
- EDF 8353 Principles of Curriculum Development. 3 hours
- EDF 8383 Issues in Education. 3 hours
- EDF 8393 History of Education in the United States. 3 hours
The specific number of courses in Educational Foundations required for a particular student may vary depending on previous degrees and experience. For some students, courses not appearing on the list above but taken previously in earning a Master’s or Educational Specialist degree may be used to satisfy this requirement.

4) Dissertation Research (20 hours)
   The focus of this strand is on dissertation writing. To satisfy the requirement, the student must successfully complete a minimum of 20 research/dissertation credits (EDA 9000).

Many of the courses in the program are taught using an intensive weekend (Friday-Saturday) format supplemented with studio-based distance learning and online e-learning. Most students proceed through studies as members of a cohort, working closely with core faculty.

**Prerequisite and Core Courses:**

1) Leading and Managing in Educational Environments
   - EDA 8223 Seminar in Educational Administration. 3 hours
   - EDA 8273 Educational Administration and Supervision. 3 hours
   - EDA 8283 Educational Leadership. 3 hours
   - EDA 8293 Professional Development of Educational Personnel. 3 hours
   - EDA 8323 Educational Facilities Design. 3 hours
   - EDA 8343 School Personnel Administration. 3 hours
   - EDA 8353 Applications of Theory to Educational Administration. 3 hours
   - EDA 8383 Ethical Decision Making in Educational Administration. 3 hours
   - EDA 8990 Special Topics in Educational Administration. 3 hours

2) Applied Research
   - EPY 6214 Educational and Psychological Statistics. 3 hours
   - EPY 8214 Advanced Educational and Psychological Statistics. 3 hours
   - EDF 8363 Function and Methods of Research in Education. 3 hours
   - EPY 9213 Advanced Analysis in Educational Research. 3 hours
   - EPY 9263 Applied Research Seminar. 3 hours
   - EDF 9373 Educational Research Design. 3 hours
   - EDF 9443 Single-Subject Research Designs in Education. 3 hours
   - EDF 9453 Qualitative Techniques in Educational Research. 3 hours

3) Educational Foundations
   - EPY 8223 Psychological Foundations of Education. 3 hours
   - EDF 8313 Philosophy of Education. 3 hours
   - EDF 8323 Comparative Education. 3 hours
   - EDF 8353 Principles of Curriculum Development. 3 hours
   - EDF 8383 Issues in Education. 3 hours
   - EDF 8393 History of Education in the United States. 3 hours

4) Dissertation Research
   - EDA 9000 Research/Dissertation. 20 hours

Completion Requirements—The written preliminary examination and the written and oral written examination for admission to candidacy for the Ph.D. in Elementary, Middle, and Secondary Educational Administration may be taken only after the student has completed or is within six hours of completing the course work listed in his/her program (per Graduate Council, date). To meet the research skills requirements, the student is expected to be actively involved in a regional educational research association and must demonstrate competency in one of three ways: publish a research paper in a recognized journal, or present a research paper at an annual meeting of a regional or national association, or pass an examination in statistics and applied research administered in the department.
Graduate study is offered in the Department of Kinesiology leading to the degree of Master of Science in Physical Education with concentrations in Exercise Science, Sport Administration, and Teaching/Coaching. Graduate teaching assistantships are available. To secure additional information write to the Graduate Coordinator, Kinesiology, P.O. Box 6186, Mississippi State, MS 39762.

Admission Criteria—Regular admission to the Master of Science in Physical Education program requires a minimum overall grade point average GPA of a 2.75 on a 4.00 scale on the last half of undergraduate work and an appropriate score on the verbal, quantitative and analytical writing portions of the Graduate Record Examination (GRE).

An international student applying for admission must score a minimum of 550 on the Test of English as a Foreign Language (TOEFL) in addition to meeting all other admission criteria.

A student applying for admission to the Teaching/Coaching concentration should hold or be eligible to hold a Class A teaching certificate in addition to meeting all other admission criteria.

*Please note that the applicant must meet general requirements for admission to graduate studies as stated in the Graduate Studies Bulletin, 2005-2006.

Provisional Admission—Provisional admission may be granted to a student with a 2.50 to 2.74 on 4.00 scale and an appropriate GRE score. The student must complete, during the first nine hours in the Master of Science in Physical Education program, a nine-hour course load prescribed by his or her major professor. Provisionally admitted students must attain a minimum GPA of 3.00 on the first nine hours after admission to the program in order to remain in good standing. Transfer or unclassified hours will not apply.

Program of Study—The Master of Science in Physical Education degree requires a minimum of 33 hours of graduate credit. Concentrations in Exercise Science, Sport Administration and Teaching/Coaching are available. The student may select from Thesis (Option 1) or Non-Thesis (Option 2) options within each concentration.

The student will develop in cooperation with the major professor a program of study during the first semester in the Master of Science in Physical Education program. The student must successfully complete comprehensive examinations before being awarded the degree of Master of Science in Physical Education.

Academic Performance—The Master of Science in Physical Education student must meet University and College of Education academic performance requirements in order to remain in good standing. These requirements can be found elsewhere in the Mississippi State University Graduate Studies Bulletin. Students are encouraged to familiarize themselves with academic performance requirements.

Completion Requirements—The student in the Master of Science in Physical Education program must successfully complete written comprehensive examinations prior to graduation. The student must be within six hours of graduation and be in good standing to be eligible to apply for comprehensive examinations.

The student pursuing Option 1 (Thesis) is required to complete six credit hours of thesis work as part of the 33 required hours. A thesis committee, consisting of at least three graduate faculty members, including the student's major professor and at least one more graduate faculty member from the Department of Kinesiology, must be established.

A student pursuing Option 2 (Non-Thesis) may choose to complete a Directed Individual Study and 33 required hours. The student choosing the Directed Individual Study must establish a committee consisting of the student's major professor and two other member of the Department of Kinesiology graduate faculty.

A student not completing a thesis or Directed Individual Study (Option 3) is required to complete 36 credit hours. In the Sport Administration concentration this must include PE 8710 Internship.

Prerequisite and Core Courses—The Master of Science in Physical Education student is required to complete research techniques, core, and elective requirements within the chosen concentration area. The Department of Kinesiology requires a research methods course (PE 8303 or equivalent) and an interpretation of data course (PE 8313) for each student.
Requirements for core and elective classes vary according to concentration. The student should refer to the Department of Kinesiology Graduate Handbook and contact his or her major professor to complete a program of study appropriate for the concentration during the first semester of graduate study.

**Other Information**—The Department of Kinesiology Graduate Handbook contains additional information concerning the Master of Science in Physical Education degree, concentrations, and program requirements. To request a Graduate Handbook please contact Dr. Joseph Chromiak, Graduate Coordinator, Dept. of Kinesiology, Box 6186, MSU, MS 39762 jchrom@colled.msstate.edu.

**Graduate Courses**—Course prerequisites are noted in parentheses.

- **PE 6113** Fitness Programs and Testing Procedures (PE 3303). 3 hours
- **PE 6153** Training Techniques for Exercise and Sports (PE 3303). 3 hours
- **PE 6990** Special Topics in Physical Education. 1-9 hours
- **PE 7000** Directed Individual Study. 1-3 hours
- **PE 8000** Research/Thesis. 6 hours
- **PE 8113** Curriculum Construction in Health and Physical Education. 3 hours
- **PE 8123** Physical Education and Sport Programs. 3 hours
- **PE 8153** Wellness and Aging. 3 hours
- **PE 8163** Seminar in Physical Education. 3 hours
- **PE 8193** Professional Preparation in Health Education, Physical Education, and Recreation Education. 3 hours
- **PE 8213** Problems in the Administration of Athletics. 3 hours
- **PE 8223** Advanced Motor Learning and Motor Performance. 3 hours
- **PE 8243** Cardiorespiratory Exercise Physiology (PE 3303). 3 hours
- **PE 8253** Doping and Supplement Use in Sport (PE 2202). 3 hours
- **PE 8263** Exercise Biochemistry (PE 3303). 3 hours
- **PE 8273** Laboratory Instrumentation (PE 3303). 3 hours
- **PE 8283** Environmental Exercise Physiology (PE 3303; suggested prerequisite or corequisite PE 8243). 3 hours
- **PE 8303** Research in Exercise Science and Sport. 3 hours
- **PE 8313** Interpretation of Data in Exercise Science and Sport. 3 hours
- **PE 8323** Introductory Concepts Basic to Cardiac Rehabilitation (PE 3303). 3 hours
- **PE 8423** Graded Exercise Testing (PE 3303). 3 hours
- **PE 8613** Design and Administration of Health Promotion Programs. 3 hours
- **PE 8623** Seminar in School Health. 3 hours
- **PE 8710** Internship (permission of department head). 3-6 hours
- **PE 8803** Sport Law. 3 hours
- **PE 8823** The Sport Product. 3 hours
- **PE 8833** Event and Facility Management. 3 hours
- **PE 8883** Sports Ethics. 3 hours
- **PE 8990** Special Topics in Physical Education. 1-9 hours

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**Landscape Architecture**

**College of Agriculture and Life Sciences**

Dr. Vance Watson, Dean
Prof. Cameron R. J. Man, Department Head and Interim Graduate Coordinator

Landscape Architecture Building
662-325-3012

The Master of Landscape Architecture Program provides an opportunity for students with undergraduate degrees in landscape architecture and related disciplines to refine and develop professional strengths in three areas of
concentration: watershed planning and management; landscape planning, management and design; and community-based initiatives. In addition, students from other disciplines may enter the Master of Landscape Architecture as a first professional degree. The educational objective of the program is to prepare individuals for management roles within the profession of landscape architecture.

Admissions—The applicant to the M.L.A. program should have a minimum GPA of 2.80 on a 4.00 scale and a bachelor’s degree in a design or planning-related field such as landscape architecture, urban planning, environmental design, or architecture. A student with a bachelor’s degree in non-design fields may undertake the M.L.A. as a first professional degree and is eligible to apply but is required to undertake additional “leveling” coursework to ensure competency in the field. Submission of Graduate Record Examination (GRE) scores is not necessary if the applicant has attained a minimum of a 3.00 GPA in upper division major emphasis courses from an accredited university. An international student must have a TOEFL score of 600. The applicant’s submission should include a letter of interest which includes a written statement (no more than 1500 words) explaining why his or her interest in pursuing graduate studies in landscape architecture at Mississippi State University. Three letters of recommendation from individuals familiar with the applicant’s academic work, motivation, and character should accompany the application. The applicant should also submit a curriculum vitae.

Program of Study—The M.L.A. program offers a wide latitude of study for students and their faculty advisers to craft educational objectives within the course curriculum, graduate elective courses drawn from other departments at Mississippi State, and their thesis work. When undertaken as a first professional degree, the M.L.A. also requires a rigorous program of study designed to ensure candidates are competent in the profession of Landscape Architecture. Since a number of “leveling” courses are required in order to achieve a level of expertise, the M.L.A. as a first professional degree normally takes three years rather than two to complete.

All students in Landscape Architecture are required to have their own personal computer. Students should check with the department for equipment specifications prior to purchasing.

Academic Performance—A student is expected to achieve a grade of B or better in his or her course work after admission to the program. The student’s grade record may contain a maximum of two C grades in courses at the graduate level. More than two C grades will result in dismissal from the program.

Core Courses—Courses required of all students in the program include:

- LA 8512 Landscape Architecture Graduate Studio I
- LA 8711 Seminar in Watershed Planning and Management
- LA 8522 Landscape Architecture Studio II
- LA 8721 Seminar in Landscape Management
- LA 8532 Landscape Architecture Studio III
- LA 8731 Seminar in Community Based Planning
- LA 8741 Seminar in Landscape Architecture Thesis
- LA 8000 Research/Thesis. 1-6 hours
- LA 8613 Research Methods in Landscape Architecture
- ST 8114 Statistical Methods

Electives—Elective courses are selected from across the University to adapt the degree program to the individual student’s professional interests and area of concentration.

Completion Requirements—A thesis is required for the granting of the Master of Landscape Architecture degree. The student must complete a minimum of 30 hours of graduate credit, 24 of which must be non-research course hours. Half of the non-research courses hours must be 8000 level and above. A thesis proposal will be developed for presentation to and approval by the graduate committee. The graduate committee is comprised of not fewer than three graduate faculty, at least two of whom must be from the Department of Landscape Architecture. The candidate’s graduate committee must approve the thesis and administer a final oral examination or thesis defense. The thesis must be submitted to the members of the committee for approval at least fourteen days prior to a scheduled defense.
Management and Information Systems

College of Business and Industry
Dr. Sara Freedman, Dean
Dr. Garry D. Smith, Department Head
Dr. Barbara Spencer, Graduate Coordinator
3103 McCool Hall
662-325-3928
gsb@cobilan.msstate.edu

The Department of Management and Information Systems offers the following graduate programs:
- Master of Science in Information Systems
- Ph.D. with a major in Information Systems
- Ph.D. with a major in Management

The department also participates in the interdisciplinary Master of Business Administration (M.B.A.) program. See the Business Administration section of this publication for M.B.A. and Ph.D. information.

Master of Science in Information Systems (M.S.I.S.)

Program Mission—The mission of the M.S.I.S. program at MSU is to prepare students to become information systems professionals who can successfully develop, acquire, and integrate information technology across levels and functions of a firm in the continually changing global business environment by:
- equipping students with critical technical skills;
- strengthening communication skills;
- enhancing the students’ understanding of business functions/operations;
- developing professional attitudes;
- and enhancing the students’ understanding of the link between an organization and information technology.

Admission Criteria—The applicant for the M.S.I.S. program should hold a bachelor’s degree from a fully recognized four-year institution of higher learning that enjoys unconditional accreditation by appropriate regional accrediting agencies. All general requirements stated in this publication must be met.

The applicant for the M.S.I.S. program must have a grade point average of 3.00/4.00 or higher over the last 60 hours of undergraduate course work and a score of 500 on the GMAT (Graduate Management Admission Test) or a combined score of 1100 using the formula (200xGPA+GMAT). When a student is deficient in one of the criteria cited, the student’s application may still be considered based on the strength of other materials contained in the student’s application. However, reasonable minimum levels must be achieved in both the applicant’s GPA and GMAT scores.

An international applicant not holding a degree from a U.S. institution must submit with his or her application a Test of English as a Foreign Language (TOEFL) report from a test administered within the last two years. The score must be 575 or higher in order to be considered for regular admission.

In addition, students must complete the foundation courses listed below or have equivalent undergraduate credit. The College of Business and Industry now offers graduate survey courses in place of most undergraduate prerequisites. These are especially designed for non-business undergraduates and may be taken before or during the MSIS program.

Foundation Course Replaces
Survey of Accounting Principles of Financial Acc & Principles of Managerial Acc
Survey of Statistics Business Statistical Methods I & II
Survey of Management Principles of Management & Production Management
Survey of Economics Prin. of Macroeconomics & Prin. of Microeconomics
Survey of Finance Financial Management
Survey of Marketing Principles of Marketing

6 Hours Programming Courses

Examples of prerequisite classes that would fit the 6-hour programming requirement include BIS 1733, BIS 1753, BIS 3733, CS 1233, CS 1253, and CS 1314. Note that these are just examples; any six hours of programming will be allowed.

Core Course Requirements—A student must complete a minimum of 30 hours of course work at the graduate level. No more than six hours may be below the 8000 level. The M.S.I.S.
degree requires 20 hours of required BIS courses and at least one 2- or 3-hour BIS elective, plus free electives. The M.S.I.S. program is a lock-step-sequence program, which means that students are required to take certain courses in the fall semester and certain courses in the spring semester. Six hours of programming courses must be complete before the student can start the following:

**BIS Fall Semester Required Courses:**
- BIS 8112 Management of Information Technology and Systems. 2 hours
- BIS 8213 Adv. Systems Analysis and Design. 3 hours
- BIS 8413 Decision Support and Expert Systems. 3 hours
- BIS 8613 MIS Administration. 3 hours

**BIS Spring Semester Required Courses:**
- BIS 8313 Advanced Database Design Administration. 3 hours
- BIS 8513 Business Telecommunications. 3 hours
- BIS 8753 Information Systems Collaborative Project. 3 hours

**BIS Elective Courses:**
- BIS 8122 Multimedia Presentation and Communication. 2 hours
- BIS 6513 Microcomputers/Networks. 3 hours
- BIS 6523 Advanced Languages. 3 hours
- BIS 6113 BIS Security Management. 3 hours

**NOTE:** The student must take at least one but may take more than one of the above BIS electives. The remaining hours may be selected from courses either inside or outside the College of Business and Industry with the approval of the student’s major professor. In addition, elective hours must be approved by the student’s major professor.

**Completion Requirements**—The course BIS 8753 (Information Systems Collaborative Project) is the capstone course for the MSIS program and constitutes the comprehensive exam. A grade of B or better in this course is required for graduation.

**Academic Performance**—A grade of C or better is required on all undergraduate prerequisite courses. A student in any graduate degree program in the College of Business and Industry may not continue in the program with grades below B in more than six hours of core graduate course work, regardless of the overall average. Thus, any program is terminated automatically when a seventh credit hour below B is recorded on core graduate course work. In addition, the normal MSU requirements for satisfactory progress in a graduate program will be applied.

**Provisional Admission**—Following University guidelines, a student who is admitted provisionally to this program must receive a 3.00 GPA on the first nine hours of graduate level courses on the program of study taken at MSU following admission to the program. Transfer and unclassified graduate hours will not apply. If the 3.00 is not attained, the provisional student may be dismissed from graduate study.

**Graduate Courses Management:**
- MGT 6990 Special Topics in Management. 1-9 hours
- MGT 7000 Directed Individual Study. 3 hours
- MGT 8000 Research/Thesis. 6 hours
- MGT 8063 Survey of Management. 3 hours
- MGT 8111 Human Resource Issues (MGT 8063 or equivalent). 1 hour
- MGT 8112 Leadership Skills for Managerial Behavior (MGT 8063 or equivalent). 2 hours
- MGT 8121 Strategic Management (MGT 8063 or equivalent). 1 hour
- MGT 8122 Business Consulting Project (MGT 8121 or equivalent). 2 hours
- MGT 8132 Project Management Field Study. 2 hours
- MGT 8513 Human Resource Management. 3 hours
- MGT 8613 Managing in the Global Business Environment. 3 hours
- MGT 8813 Organizational Behavior. 3 hours
- MGT 8823 Organization Development (MGT 3113). 3 hours
- GB 8853 Policy/Strategy (Final semester of M.B.A.). 3 hours
- MGT 8990 Special Topics in Management. 1-9 hours
MGT 9000 Research/Dissertation. 20 hours
MGT 9143 Development of Management Theory (MGT 3113). 3 hours
MGT 9533 Seminar in Human Resource Management Literature. 3 hours
MGT 9613 Organization Theory and Practice (MGT 3113). 3 hours
MGT 9813 Seminar in Organizational Behavior. 3 hours
MGT 9913 Seminar in Strategy Formulation (approval of instructor). 3 hours
MGT 9933 Seminar in Strategy Implementation (approval of instructor). 3 hours

**Business Information Systems:**
BIS 6513 Local Area Networks (BIS 3733, or any 12 hours of programming, or graduate standing). 3 hours
BIS 6523 Advanced Languages (BIS 3733, or any 12 hours of programming, or graduate standing). 3 hours
BIS 6990 Special Topics in Business Information Systems. 1-9 hours
BIS 7000 Directed Individual Study. 3 hours
BIS 8000 Research/Thesis. 6 hours
BIS 8112 Management of Information Technology and Systems. 2 hours
BIS 8122 Multimedia Communication and Presentation. 2 hours
BIS 8213 Advanced Systems Analysis and Design (6 hours programming and prerequisite or co-requisite BIS 8112). 3 hours
BIS 8313 Advanced Database Design and Administration (BIS 8213, BIS 8413, BIS 8613). 3 hours
BIS 8413 Decision Support and Expert Systems (6 hours of programming and prerequisite or co-requisite BIS 8112). 3 hours
BIS 8513 Business Telecommunications (BIS 8213, BIS 8413, BIS 8613). 3 hours

BIS 8613 MIS Administration (6 hours of programming and prerequisite or co-requisite of BIS 8112). 3 hours
BIS 8753 Information Systems Collaborative Project (BIS 8213, BIS 8413, BIS 8613; prerequisite or co-requisite BIS 8313, BIS 8513). 3 hours
BIS 8990 Special Topics in Business Information Systems. 3 hours
BIS 9000 Research/Dissertation. 2 hours
BIS 9113 Management Information Systems (MIS) Seminar (BIS 8213, BIS 8313). 3 hours
BIS 9213 Advanced Topics in MIS (BIS 8213, BIS 8313). 3 hours

Marketing, Quantitative Analysis, and Business Law

**College of Business and Industry**
Dr. Sara Freedman, Dean
Dr. Brian Engelland, Department Head
Dr. Barbara Spencer, Graduate Coordinator
301 McCool Hall
662-325-3163

The Department of Marketing, Quantitative Analysis, and Business Law cooperates in interdisciplinary programs leading to the Master of Business Administration degree (M.B.A.) as well as the Doctor of Philosophy (Ph.D.) in Business Administration degree with a concentration in Marketing. See the Business Administration section of this publication for descriptions of these programs.

**Graduate Courses**—Course prerequisites are noted in parentheses.

**Marketing:**
MKT 6143 Sales Management (MKT 3013 and MGT 3114). 3 hours
MKT 6233 Golf Merchandising Management (PGM major, MKT 3213). 3 hours
TR 6313 Physical Distribution Management (BQA 2113 and MKT 3013). 3 hours

MKT 6990 Special Topics in Marketing. 1-9 hours

MKT 7000 Directed Individual Study. Hours to be arranged.

MKT 8000 Research/Thesis. 6 hours

MKT 8072 Survey of Marketing (Graduate standing; EC 8043, equivalent of concurrent enrollment). 2 hours

MKT 8112 Marketing Management (MKT 8072 or equivalent). 2 hours

MKT 8122 Management of Delivery Systems (MKT 8072 or equivalent). 2 hours

MKT 8132 Business Research Methods. (MKT 8072 or equivalent). 2 hours

MKT 8313 Marketing Policies (MKT 3013). 3 hours

MKT 8323 Problems in Marketing (MKT 8112). 3 hours

MKT 8333 Seminar in Marketing-Promotion and Distribution Strategies (MKT 8313). 3 hours

MKT 8343 Seminar in Marketing-Pricing and Product Strategies (MKT 8313). 3 hours

MKT 8413 Seminar on Consumer Behavior (MKT 8313). 3 hours

MKT 8533 Design and Execution (Consent of instructor). 3 hours

MKT 8543 Quantitative Marketing Seminar (MKT 8313, BQA 8443 or consent of instructor). 3 hours

MKT 8990 Special Topics in Marketing. 1-9 hours

IB 8990 Special Topic in International Business. 1-9 hours

IB 8913 International Business Environment (the equivalent of ACC 2023, EC 2123, FIN 3113, FIN 3123, MGT 4113, and MKT 3013 or consent of instructor). 3 hours

MKT 9000 Research/Dissertation. 20 hours

MKT 9333 Advanced Marketing Theory (MKT 8313). 3 hours

Business Quantitative Analysis:

BQA 6990 Special Topics in Business Statistics. 1-9 hours

BQA 7000 Directed Individual Study. Hours and credits to be arranged.

BQA 8112 Business Case Analysis Using Statistics (BQA 2113 and BQA 3123 or equivalent). 2 hours

BQA 8443 Statistical Analysis for Business Decisionmaking (BQA 3123 and computer proficiency). 3 hours

BQA 8563 Business and Economic Forecasting (BQA 8443 or equivalent). 3 hours

BQA 8583 Quantitative Methods for Research in Business (BQA 8443). 3 hours

BQA 8990 Special Topics in Business Statistics. 1-9 hours

BQA 9000 Research/Dissertation. 20 hours

BQA 9533 Advanced Statistics for Business Decisions (BQA 8443). 3 hours

Business Law:

BL 6243 Legal Aspects of Entrepreneurship (BL 2413, MGT 3323, or consent of instructor). 3 hours

BL 6253 Real Estate Law (BL 2413 or permission of instructor). 3 hours

BL 6263 Environmental Law. 3 hours

BL 6273 International Business Law. 3 hours

BL 6990 Special Topics in Business Law. 1-9 hours

BL 8112 Law, Business Ethics, and Dispute Resolution. 2 hours
Mathematics and Statistics
College of Arts and Sciences
Dr. Philip B. Oldham, Dean
Dr. Michael Neumann, Interim Department Head
Dr. Corlis Johnson, Graduate Coordinator
410 Allen Hall
662-325-3414
office@math.msstate.edu

Mathematics
Admission Criteria—Graduate study is offered in the Department of Mathematics and Statistics leading to the degrees of Master of Science in Mathematics and Doctor of Philosophy in Mathematical Sciences. For unrestricted admission to the master’s degree program, a degree applicant must submit three letters of recommendation and transcripts from all former institutions attended. The applicant must present the equivalent of an undergraduate major in mathematics, as described in the general catalog, with a minimum grade point average of 2.75 on a 4.00 scale on the last two years of undergraduate academic work. In addition, a student is expected to possess those qualities that, in the judgement of the departmental graduate faculty, indicate that the applicant has the ability to do graduate work at the appropriate level. A minimum score of 475 paper-based total or 152 computer-based total on the Test of English as a Foreign Language (TOEFL) is required of international students (with some exceptions). An applicant for the Ph.D. program must meet the requirements for admission to the Master’s degree program and submit a satisfactory score on the Graduate Record Examination (GRE) General Test. The department awards a limited number of teaching assistantships. Teaching assistantship applicants who do not have English as their native language must submit a score of at least 550 paper-based total or 213 computer-based total on the TOEFL.

Program of Study/Completion Requirements—For the degree of Master of Science in Mathematics, thesis and non-thesis options are available. The thesis option for the Master of Science in Mathematics requires 30 hours of course work including MA 6153, MA 6753, MA 6933, one of MA 6163 or MA 6943, and one of MA 6313 or MA/ST 6543, an examination over MA 6153, MA 6753, MA 6933, and a thesis. The non-thesis option for the Master of Science in Mathematics requires a project, 33 additional hours of course work including MA 6153, MA 6753, and MA 6933, one of MA 6163 or MA 6943, and one of MA 6313 or MA/ST 6543, and an examination over MA 6153, MA 6753, and MA 6933. The Doctor of Philosophy in Mathematical Sciences includes at least six hours of graduate courses in each of four areas of mathematics and/or statistics, at least nine to twelve hours of graduate courses in an area of specialization, a comprehensive examination, a preliminary examination, a dissertation, and dissertation defense. Before taking the preliminary examination, a Ph.D. student must satisfy the departmental foreign language requirement. Research areas for the Ph.D. include applied and computational mathematics, ordinary and partial differential equations, functional analysis and operator theory, topology, graph theory, functional equations, and statistics.

Provisional Admission—A student who has not fully met the requirements stipulated by the University and the appropriate department for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. This student must have as his or her initial objective advancement to regular status.

The provisional student must receive a 3.00 GPA on the first nine hours of graduate level courses on the program of study taken at Mississippi State University (transfer and unclassified graduate hours will not apply) in order to achieve regular status. If a 3.00 is not attained, the provisional student will be dismissed from graduate study. While in the provisional status, the student is not eligible to hold a graduate assistantship.

Academic Performance—Continuous enrollment in the University or in a specific graduate program is dependent upon a satisfactory evaluation of academic performance and progress toward the completion of a specified degree. A student’s progress is considered satisfactory unless judged to be unsatisfactory by the department and/or the dean of the college offering the program.

Unsatisfactory progress in a degree program may be defined as one or more of the following:
1) a student’s failure to maintain a B average on all graduate courses attempted after admission to the program;
2) failure of a Master’s Core Examination or a Ph.D. Comprehensive Area Examination;
3) failure of the preliminary examination.

In January, May, and August of each year, the Graduate Coordinating Committee will review the
academic records of students who were admitted with contingent or provisional status, are currently on probation, have earned a grade of D, F, or U during the previous semester, or have earned more than two grades below B. The Graduate Coordinating Committee will consider making a recommendation to the Dean of the College of Arts and Sciences that a student be dismissed from his/her degree program if any of the following conditions exist:

1) the student’s progress in his/her degree program is deemed unsatisfactory;
2) the student is not making satisfactory progress toward satisfying any condition of his/her contingent admission;
3) the student is on academic probation and cannot meet the requirements for good academic standing within the next nine credit hours taken in the student’s program of study.

Any of the following will result in a recommendation for dismissal from a graduate degree program:

1) two failures on the Master’s Core Examination or a Ph.D. Comprehensive Area Examination;
2) failure of a student in provisional status to achieve a 3.00 GPA on the first nine hours of regular graduate level courses taken at Mississippi State University;
3) more than two grades below a B;
4) a grade of D, F, or U in any course (graduate or undergraduate) taken while the student is enrolled in a graduate program in mathematics or statistics.

The student and advisor (if different from the graduate coordinator) will be notified in writing when the first and second unsatisfactory grades are received.

A student enrolled in a graduate program in the Department of Mathematics and Statistics will be placed on academic probation if the student fails to maintain a 3.00 GPA or earns a grade below a B on a prerequisite course. To be removed from academic probation, the student must achieve an overall GPA of 3.00 or higher on coursework taken toward the degree.

To be eligible for the comprehensive/preliminary examination, a graduate student must maintain an overall B average in all graduate courses attempted while in a specific program. Individual programs may have additional requirements.

For further details and specific degree requirements contact, Graduate Coordinator, P.O. Box MA, Mississippi State, MS 39762, or office@math.msstate.edu; see also http://www.msstate.edu/Dept/Math.

<table>
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<tr>
<th>Graduate Courses—Course prerequisites are noted in parentheses.</th>
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<tr>
<td>MA 6133 Discrete Mathematics (MA 3163 or consent of instructor). 3 hours</td>
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<td>MA 6143 Graph Theory (MA 3113 or consent of instructor). 3 hours</td>
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<td>MA 6153 Matrices and Linear Algebra (MA 3113 and MA 3253). 3 hours</td>
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<td>MA 6163 Group Theory (MA 3163 or consent of instructor). 3 hours</td>
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<td>MA 6173 Number Theory (MA 3113). 3 hours</td>
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<td>MA 6313 Numerical Analysis I (CSE 1213 or equivalent, MA 3113 and MA 2743). 3 hours</td>
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<td>MA 6323 Numerical Analysis II (CSE 1213 or equivalent, MA 3113 and MA 3253). 3 hours</td>
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<td>MA 6373 Introduction to Partial Differential Equations (MA 3253). 3 hours</td>
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<td>MA 6513 Applied Probability and Statistics for Secondary Teachers (MA 1723). 3 hours</td>
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<tr>
<td>MA 6523 Introduction to Probability (MA 2733) [same as ST 4523/6523]. 3 hours</td>
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<tr>
<td>MA 6533 Introductory Probability and Random Processes (MA 3113 and MA 2743). 3 hours</td>
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<tr>
<td>MA 6543 Introduction to Mathematical Statistics I (MA 2743) [same as ST 4543/6543]. 3 hours</td>
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<tr>
<td>MA 6553 Foundations of Analysis for Secondary School Teachers (consent of instructor). 3 hours</td>
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<td>MA 6563 Theory of Equations for Secondary School Teachers (MA 1723). 3 hours</td>
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<tr>
<td>MA 6573 Introduction to Mathematical Statistics II (ST 4543/6543) [same as ST 4573/6573]. 3 hours</td>
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<td>MA 6633 Advanced Calculus I (MA 2743). 3 hours</td>
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<td>MA 6643 Advanced Calculus II (MA 4633/6633). 3 hours</td>
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Introduction to Topology II (MA 8913). 3 hours

Teaching Seminar. 1 hour

Special Topics in Mathematics. Hours and credits to be arranged.

Research/Dissertation. Hours and credits to be arranged.

Selected Topics in Combinatorics (consent of instructor) (may be taken for credit more than once). 3 hours

Selected Topics in Ordinary Differential Equations (MA 8313 and consent of instructor) (may be taken for credit more than once). 3 hours

Selected Topics in Partial Differential Equations (MA 8333 and consent of instructor) (may be taken for credit more than once). 3 hours

Selected Topics in Numerical Analysis (consent of instructor) (may be taken for credit more than once). 3 hours

Selected Topics in Analysis (MA 8643 and consent of instructor) (may be taken for credit more than once). 3 hours

Selected Topics in Algebra (MA 8123 and consent of instructor) (may be taken for credit more than once). 3 hours

Selected Topics in Combinatorics (consent of instructor) (may be taken for credit more than once). 3 hours

Selected Topics in Ordinary Differential Equations (MA 8313 and consent of instructor) (may be taken for credit more than once). 3 hours

Selected Topics in Partial Differential Equations (MA 8333 and consent of instructor) (may be taken for credit more than once). 3 hours

Selected Topics in Numerical Analysis (consent of instructor) (may be taken for credit more than once). 3 hours

Selected Topics in Analysis (MA 8643 and consent of instructor) (may be taken for credit more than once). 3 hours

Selected Topics in Algebra (MA 8123 and consent of instructor) (may be taken for credit more than once). 3 hours

Program of Study/Completion Requirement—
The thesis option of the Master of Science in Statistics requires 30 hours of course work and a thesis. The non-thesis option requires a project and 33 additional hours of course work. In both the thesis and non-thesis options, the student is required to take the core courses ST 8533, ST 8603, ST 6543, ST 6573, and ST 8613 and an examination over these core courses. The program of study is a blend of both statistical theory and statistical methods. In addition, there is ample flexibility in the non-thesis option to allow a graduate student with special interest in an area of statistical application to acquire an area of emphasis in that particular applied field. The Doctor of Philosophy in Mathematical Sciences includes at least six hours of graduate courses in each of four areas of statistics and/or mathematics, at least nine to twelve hours of graduate courses in an area of specialization, a comprehensive examination, a preliminary examination, a dissertation, and dissertation defense. Before taking the preliminary examination, a Ph.D. student must satisfy the departmental foreign language requirement. Research areas for the Ph.D. include linear models, multivariate statistics, probability theory and stochastic processes, and statistical methods. Many applied courses are offered that are suitable for a minor in statistics at the master’s or doctoral level.

Provisional Admission—A student who has not fully met the requirements stipulated by the University and the appropriate department for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. The student must have as his or her main objective advancement to regular status.

A provisional student must receive a 3.00 GPA on the first nine hours of graduate level courses on his or her program of study taken at Mississippi State University (transfer and unclassified graduate hours will not apply) in order to achieve regular status. If a 3.00 is not
attained, the provisional student will be dismissed from graduate study. While in the provisional status, a student is not eligible to hold a graduate assistantship.

**Academic Performance**—Continuous enrollment in the University or in a specific graduate program is dependent upon a satisfactory evaluation of academic performance and progress toward the completion of a specified degree. A student's progress is considered satisfactory unless judged to be unsatisfactory by the department and/or the dean of the college offering the program.

Unsatisfactory progress in a degree program may be defined as one or more of the following:

1. a student’s failure to maintain a B average on all graduate courses attempted;
2. failure of a Master's Core Examination or a Ph.D. Comprehensive Area Examination;
3. failure of the preliminary examination.

In January, May, and August of each year, the Graduate Coordinating Committee will review the academic records of students who were admitted with contingent or provisional status, are currently on probation, have earned a grade of D, F, or U during the previous semester, or have earned more than two grades below B. The Graduate Coordinating Committee will consider making a recommendation to the Dean of the College of Arts and Sciences that a student be dismissed from his/her degree program if any of the following conditions exist:

1. the student's progress in his/her degree program is deemed unsatisfactory;
2. the student is not making satisfactory progress toward satisfying any condition of his/her contingent admission;
3. the student is on academic probation and cannot meet the requirements for good academic standing within the next nine credit hours taken in the student’s program of study.

Any of the following will result in a recommendation for dismissal from a graduate degree program:

1. two failures on the Master’s Core Examination or a Ph.D. Comprehensive Area Examination;
2. failure of a student in provisional status to achieve a 3.00 GPA on the first nine hours of regular graduate level courses taken at Mississippi State University;
3. more than two grades below a B;
4. a grade of D, F, or U in any course (graduate or undergraduate) taken while the student is enrolled in a graduate program in mathematics or statistics.

The student and advisor (if different from the graduate coordinator) will be notified in writing when the first and second unsatisfactory grades are received.

A student enrolled in a graduate program in the Department of Mathematics and Statistics will be placed on academic probation if the student fails to maintain a 3.00 GPA or earns a grade below a B on a prerequisite course. To be removed from academic probation, the student must achieve an overall GPA of 3.00 or higher on coursework taken toward the degree.

To be eligible for the comprehensive/preliminary examination, a graduate student must maintain an overall B average in all graduate courses attempted while in a specific program. Individual programs may have additional requirements.

**Prerequisite Courses**—The master’s degree program in Statistics requires as prerequisite expertise in the following: Matrix Algebra, Computer Concepts, and Calculus at the level of MA 2743 – Calculus IV.

For further details and specific degree requirements contact, Graduate Coordinator, P.O. Box MA, Mississippi State, MS 39762, or office@math.msstate.edu; see also http://www.msstate.edu/Dept/Math.

**Graduate Courses**—Course prerequisites are noted in parentheses.

- **ST 6111** Seminar in Statistical Packages 1 hour
- **ST 6211** Statistical Consulting (consent of instructor). 1 hour
- **ST 6213** Nonparametric Methods (Introductory course in statistical methods). 3 hours
- **ST 6313** Introduction to Spatial Statistics (Grade of C or better in ST 3123, or equivalent). 3 hours
- **ST 6523** Introduction to Probability (MA 2733) [Same as MA 4523/6523]. 3 hours
- **ST 6543** Introduction to Mathematical Statistics I (MA 2743) [Same as MA 4543/6543]. 3 hours
- **ST 6573** Introduction to Mathematical Statistics II (ST 4543/6543) [Same as MA 4573/6573]. 3 hours
- **ST 6990** Special Topics in Statistics. 1-9 hours
ST 7000 Directed Individual Study. Hours and credits to be arranged.

ST 8000 Research/Thesis. Hours and credits to be arranged.

ST 8114 Statistical Methods (MA 1313). 4 hours

ST 8214 Design and Analysis of Experiments (ST 8114). 4 hours

ST 8253 Regression Analysis (ST 8114 or equivalent). 3 hours

ST 8263 Advanced Regression Analysis (ST 8253). 3 hours

ST 8313 Introduction to Survey Sampling (ST 8114). 3 hours

ST 8353 Statistical Computations (ST 8114). 3 hours

ST 8413 Multivariate Statistical Methods (ST 8253). 3 hours

ST 8423 Multivariate Analysis (ST 8413 and ST 8613). 3 hours

ST 8533 Applied Probability (ST 6543). 3 hours

ST 8543 Stochastic Processes (ST 8533). 3 hours

ST 8603 Applied Statistics (ST 8214 and ST 8253 or equivalent). 3 hours

ST 8613 Linear Models I (ST 6573). 3 hours

ST 8633 Linear Models II (ST 8613). 3 hours

ST 8853 Advanced Design of Experiments I (ST 8603 or ST 8214). 3 hours

ST 8863 Advanced Design of Experiments II (ST 8853 and ST 8613). 3 hours

ST 8913 Recent Developments in Statistics (consent of instructor). 3 hours

ST 8951 Seminar in Statistics (consent of instructor) (may be taken for credit more than once). 1 hour

ST 8990 Special Topics in Statistics. 1-9 hours

ST 9000 Research/Dissertation. Hours and credits to be arranged.

ST 9493 Topics in Multivariate Statistics (consent of instructor) (may be taken for credit more than once). 3 hours

ST 9533 Probability Theory (ST 4543/6543 and MA 8633). 3 hours

ST 9593 Topics in Probability Theory (consent of instructor) (may be taken for credit more than once). 3 hours

ST 9693 Topics in Linear Models (consent of instructor) (may be taken for credit more than once). 3 hours

ST 9723 Nonparametric Statistical Inference I (ST 9733). 3 hours

ST 9733 Statistical Inference (ST 4573/6573 and consent of instructor). 3 hours

ST 9793 Topics in Statistical Inference (consent of instructor) (may be taken for credit more than once). 3 hours

ST 9893 Topics in Design of Experiments (consent of instructor) (may be taken for credit more than once). 3 hours

Mechanical Engineering
College of Engineering

Dr. Kirk Schulz, Dean
Dr. Roger L. King, Associate Dean for Research and Graduate Studies
Dr. Glenn Steele, Department Head
Dr. Steve Daniewicz, Graduate Coordinator
210 Carpenter Engineering Building
662-325-3260
graduate@me.msstate.edu

The Mechanical Engineering faculty offers graduate study leading to the degrees of Master of Science and Doctor of Philosophy. The major areas of study are fluid mechanics, solid mechanics, thermal sciences, materials and manufacturing, mechanical design, and system dynamics. Specific programs of graduate study are established by consultation between students and their advisors. Graduate assistantships and fellowships are available in the department. For
further information contact: Graduate Coordinator, Mechanical Engineering Department, P.O. Drawer ME, Mississippi State, MS 39762.

Admission Criteria—An entering graduate student with a bachelor’s degree from a program that is not accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET) must submit GRE general-test scores. Only applications with a Verbal plus Quantitative GRE score above 1100 will be considered. An international student must have a minimum TOEFL score of 550 (213 computer-based test).

Program of Study/Completion Requirements—Both thesis and non-thesis M.S. options are available. For the thesis option, 24 hours of course work, with at least one-half at the 8000 level or above, are required along with six hours credit for the thesis and a final oral exam. For the non-thesis option, 33 hours are required along with an oral presentation and final exam; at least 15 hours must be at the 8000 level or above.

For the Ph.D., specific course requirements are determined by the student’s major professor and graduate committee. A written and oral qualifying examination is required during the first semester of course work. An oral preliminary examination is required upon completion of course work and determination of dissertation topic. A final oral dissertation defense is required.

Provisional Admission—A provisional student must receive a 3.00 GPA on the first nine hours of graduate level courses on his or her program of study taken at Mississippi State University (transfer and unclassified graduate hours will not apply) in order to achieve regular status. If a 3.00 is not attained, the provisional student may be dismissed from graduate study. While in the provisional status, a student is not eligible to hold a graduate assistantship.

Academic Performance—Unacceptable academic performance includes: failure to maintain an overall GPA of at least 3.00, a single grade of U, D, or F in any course, more than two grades below a B in any semester, more than two grades below a B in courses taken for graduate credit or unsatisfactory research progress as determined by the student’s major advisor. Any one of these is grounds for academic dismissal.

The academic dismissal process is:
(a) deficiency recognition by student’s major advisor or the graduate program coordinator;
(b) case consideration and findings by the faculty;
(c) concurrence by department head, and
(d) recommend dismissal to the Dean of Engineering.

Graduate Courses—Course prerequisites are noted in parentheses.
ME 6113 Material Selection in Design (ME 403 or equivalent). 3 hours
ME 6123 Failure of Engineering Materials (EM 3213). 3 hours
ME 6133 Mechanical Metallurgy (ME 3403 or equivalent). 3 hours
ME 6223 Mechanical Systems Analysis (EM 3413 or ME 3613). 3 hours
ME 6333 Energy Systems Design (ME 3113, ME 3313). 3 hours
ME 6343 Intermediate Heat Transfer (ME 3313). 3 hours
ME 6353 Alternate Energy Sources (ME 3313). 3 hours
ME 6373 Air Conditioning (ME 3523 and ME 3313). 3 hours
ME 6383 Heat Exchanger Design (ME 3313 and EM 3313). 3 hours
ME 6413 Casting and Joining (ME 3403). 3 hours
ME 6423 Machining and Forming (ME 3403). 3 hours
ME 6443 Mechanical Systems Design (ME 3423 and ME 4403). 3 hours
ME 6453 Lubrication. 3 hours
ME 6463 Engineering Design (ME 3613). 3 hours
ME 6473 Kinematic Theory and Design of Mechanisms (ME 3423). 3 hours
ME 6483 Computer-Aided Design (ME 4403). 3 hours
ME 6493 Concurrent Engineering. 3 hours
ME 6543 Combustion Engines (ME 3523 and ME 3313). 3 hours
ME 6623  Control Systems (ME 3613 and ECE 3283). 3 hours
ME 6624  Experimental Methods in Materials Research (CHE 3413 or ABE 3813 or ME 3403 or permission of instructors). 4 hours
ME 6643  Automation of Mechanical Systems (ME 3613 and ECE 3283). 3 hours
ME 6743  Labview (ME 3701 or equivalent Labview experience). 3 hours
ME 6823  Compressible Flow and Turbomachinery (EM 3313 and ME 3523). 3 hours
ME 6833  Intermediate Fluid Mechanics (EM 3313). 3 hours
ME 6990  Special Topics in Mechanical Engineering. 1-9 hours
ME 7000  Directed Individual Study. 1-6 hours
ME 8000  Research/Thesis. 6 hours
ME 8011  Graduate Seminar. 1 hour
ME 8213  Engineering Analysis I. 3 hours
ME 8223  Inelasticity (EM 8113 and EM 8203). 3 hours
ME 8243  Finite Elements in Mechanical Engineering (ME 4403 and EM 3213). 3 hours
ME 8253  Fatigue and Fracture in Engineering Design. 3 hours
ME 8313  Conductive Heat Transfer. 3 hours
ME 8323  Radiative Heat Transfer. 3 hours
ME 8333  Convective Heat Transfer. 3 hours
ME 8343  Two-Phase Flow and Heat Transfer (ME 3313 and EM 3313). 3 hours
ME 8353  Advanced Energy Conversion (consent of instructor). 3 hours
ME 8363  Computational Heat Transfer (consent of instructor). 3 hours
ME 8403  Principles of Computer-Aided Design and Manufacturing. 3 hours
ME 8513  Classical Thermodynamics. 3 hours
ME 8613  Dynamical Systems. 3 hours
ME 8713  Mechanics and Control of Manufacturing System. 3 hours
ME 8733  Experimental Procedures. 3 hours
ME 8743  Stress Analysis (EM 3213). 3 hours
ME 8813  Viscous Flow I. 3 hours
ME 8823  Viscous Flow II (ME 8813 or equivalent). 3 hours
ME 8843  Unstructured Grid Technology (ASE 8413). 3 hours
ME 8990  Special Topics in Mechanical Engineering. 1-9 hours
ME 9000  Research/Dissertation. 20 hours

Microbiology
(See Biological Sciences)

Nutrition
An Interdisciplinary Curriculum
College of Agriculture and Life Sciences
Dr. Vance Watson, Dean
Dr. Sylvia Byrd, Graduate Coordinator
662-325-7740
nutrition@lists.msstate.edu

An interdisciplinary curriculum leading to a Doctor of Philosophy degree in Nutrition is offered by selecting courses in Animal and Dairy Science; Poultry Science; Food Science, Nutrition, and Health Promotion; Wildlife and Fisheries, and Biochemistry.

Graduate studies in Animal Nutrition, Poultry Science, and Human Nutrition at the Master of Science level are offered in the Departments of Animal and Dairy Science; Poultry Science; and Food Science, Nutrition, and Health Promotion respectively. Additional information pertaining to the master of science degrees can be obtained in this bulletin under Animal and Dairy Science; Poultry Science; and Food Science, Nutrition, and Health Promotion.
A Dietetic Internship/Graduate Studies Program is offered in the Department of Food Science, Nutrition, and Health Promotion as a post-baccalaureate program combined with either a Master of Science or Doctor of Philosophy degree. Additional information can be obtained in this bulletin under Food Science, Nutrition, and Health Promotion or by contacting the Dietetic Internship/Graduate Studies Program Director, Department of Food science, Nutrition, and Health Promotion, Box 9805, Mississippi State, MS 39762-9805, 662-325-3200 or by visiting the Department of Food Science, Nutrition, and health Promotion website at http://www.msstate.edu/dept/fsnhp/.

Admission Criteria—Prerequisites for admission include a bachelor’s or master’s degree in Animal and Dairy Science; Poultry Science; Food Science, Nutrition, and Health Promotion; Fisheries or Aquatic Science, Biological or Physical Science with an adequate background in chemistry.

• A minimum of 2.75 overall quality point average on a 4.00 scale is required.
• The Graduate Record Examination (GRE) general test is required for potential human nutrition majors but not for other applicants.
• A TOEFL score of 550 or better (paper-based test [PBT]) or 213 or better (computer-based test [CBT]) is required of all international applicants.
• Applicants may be interviewed for the Dietetic Internship/Graduate Studies Program and other areas on an as-needed basis.
• Letters of recommendation are required of all applicants.

Program of Study: Ph.D.—The Doctor of Philosophy in Nutrition requires three academic years beyond the B.S. degree with the number of hours varying as determined by the student and major professor. Core course requirements include BCH 6603, BCH 6613, ST 8114, ST 8214, NTR 8123, and NTR 8253 in addition to a language or research skill requirement, a preliminary/comprehensive examination, and a final dissertation defense. The research skill requirement requires the student to demonstrate a technical proficiency in a research skill not directly or routinely related to his or her research area. This proficiency may be demonstrated by successful completion of six hours of credit (examples include six hours of statistics excluding ST 8114 and ST 8214; six hours in computer science; six hours in a research area excluding minor or required courses; directed individual study courses) approved by the student’s graduate committee and is not part of the program of study. A minor is not required, but if a minor is selected it must consist of a minimum of 12 hours of graduate credit, and a committee member from the minor area is required. A graduate program of study should be submitted and approved by the student’s graduate committee and graduate coordinator by the end of the first semester of graduate study. The graduate committee should be composed of at least five members including the major professor, who must be a full member of the graduate nutrition faculty, at least two additional members of the graduate nutrition faculty, and two additional members, one of whom must be from the minor field, if a minor is selected. The other may be from outside the major area.

Provisional Admission—A student who has not fully met the requirements stipulated by the University and the appropriate department for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. The student must have as his or her initial objective advancement to regular status.

A provisional student must receive a 3.00 GPA on the first nine hours of graduate level courses on his or her program of study taken at Mississippi State University (transfer and unclassified graduate hours will not apply) in order to achieve regular status. If a 3.00 is not attained, the provisional student may be dismissed from graduate study. While in the provisional status, a student is not eligible to hold a graduate assistantship.

Academic Performance and Continued Enrollment—Continuous enrollment in the Nutrition graduate program is dependent upon satisfactory evaluation of academic performance and progress toward the completion of the respective research degrees. A student will be recommended for dismissal if he or she receives more than two grades of C or any grade below a C in courses take for graduate credit.

General Information—A student planning a major or minor in Nutrition should use the NTR prefix for each course. The graduate nutrition faculty and course listing are provided below. For additional information contact the Nutrition Graduate Coordinator, Box 9805, Mississippi State, MS 39762 or nutrition@lists.msstate.edu.

<table>
<thead>
<tr>
<th>Departmental Representative</th>
<th>Title</th>
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<tbody>
<tr>
<td>Louis R. D’Abramo</td>
<td>Professor</td>
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<tr>
<td>Wildlife and Fisheries</td>
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<tr>
<td>Michael E. Boyd</td>
<td>Professor</td>
</tr>
<tr>
<td>Animal and Dairy Sciences</td>
<td></td>
</tr>
<tr>
<td>Name</td>
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<tr>
<td>Sylvia H. Byrd</td>
<td>Associate Professor Food Science, Nutrition, and Health Promotion</td>
</tr>
<tr>
<td>Alejandro Corzo</td>
<td>Assistant Professor Poultry Science</td>
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<tr>
<td>Wanda L. Dodson</td>
<td>Professor Emerita Food Science, Nutrition, and Health Promotion</td>
</tr>
<tr>
<td>Brent Fountain</td>
<td>Assistant Professor Food Science, Nutrition, and Health Promotion</td>
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<tr>
<td>A. Wayne Groce</td>
<td>Professor Veterinary Medicine</td>
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<tr>
<td>Michael T. Kidd</td>
<td>Associate Professor Poultry Science</td>
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<tr>
<td>Berry D. Lott</td>
<td>Professor Poultry Science</td>
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<tr>
<td>Melissa Mixon</td>
<td>Extension Professor Food Science, Nutrition, and Health Promotion</td>
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<tr>
<td>Brian J. Rude</td>
<td>Associate Professor Animal and Dairy Sciences</td>
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<tr>
<td>Terry R. Smith</td>
<td>Assistant Professor Animal and Dairy Sciences</td>
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<tr>
<td>Tom W. Smith, Jr.</td>
<td>Professor Emeritus Poultry Science</td>
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<tr>
<td>Yvonne Vizzier Thaxton</td>
<td>Professor Poultry Science</td>
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<tr>
<td>Robert P. Wilson</td>
<td>Professor Emeritus Biochemistry and Molecular Biology</td>
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<tr>
<td>Graduate Courses—Course prerequisites are noted in parentheses.</td>
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<tr>
<td>NTR 6115</td>
<td>Nutrition (CH 2503, CH 2501). 5 hours</td>
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<tr>
<td>NTR 6233</td>
<td>Medical Nutrition Therapy (FNH 2293, BCH 3613, FNH 4253) [same as FNH 6223]. 3 hours</td>
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<tr>
<td>NTR 6243</td>
<td>Nutrition Throughout the Life Cycle (FNH 4253/6253) [same as FNH 6243]. 3 hours</td>
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<tr>
<td>NTR 6253</td>
<td>Human Nutrition I (BIO 2014, CH 2503 or CH 4523/6523) [same as FNH 6253]. 3 hours</td>
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</table>
Philosophy and Religion

College of Arts and Science
Dr. Philip B. Oldham, Dean
Dr. Dale Lynn Holt, Department Head
Philosophy-Religion Building
29-30 President’s Circle
662-325-2382

The Department of Philosophy and Religion offers graduate study to meet the requirements for a graduate minor. The prerequisites for a graduate minor are 12 hours of credit in undergraduate courses in philosophy or religion. For additional information call 662-325-2382.

Graduate Courses—Course prerequisites are noted in parentheses.

**Philosophy:**

- PHI 6123 Existentialism and Postmodernism. 3 hours
- PHI 6143 Philosophy of Science. 3 hours
- PHI 6153 American Philosophy. 3 hours
- PHI 6163 Research Ethics. 3 hours
- PHI 6213 Theories of Inquiry. 3 hours
- PHI 6313 Feminist Interpretations of Western Social and Political Philosophy (junior/senior standing or consent of instructor). 3 hours
- PHI 6423 Process Philosophy. 3 hours
- PHI 6990 Special Topics in Philosophy. 1-9 hours
- PHI 7000 Directed Individual Study. 1-6 hours
- PHI 8990 Special Topics in Philosophy. 1-9 hours

**Religion:**

- REL 6123 Scandinavian Mythology (same as FL 4123/6123). 3 hours
- REL 6143 Classical Mythology (same as FL 4143/6143). 3 hours
- REL 6253 Religion in America (HI 1063 or 1073) (same as HI 4253/6253). 3 hours
- REL 6313 Contemporary Muslim Societies (same as SO 4313/6313). 3 hours
- REL 6403 The Ancient Near East (Completion of any 1000-level History course) [same as HI 6403]. 3 hours
- REL 6990 Special Topics in Religion. 1-9 hours
- REL 7000 Directed Individual Study. 1-6 hours
- REL 8990 Special Topics in Religion. 1-9 hours

Physics And Astronomy

College of Arts and Sciences
Dr. Philip B. Oldham, Dean
Dr. Mark Novotny, Department Head
Dr. David Monts, Graduate Coordinator
125 Hilbun Hall
P.O. Box 5167
Mississippi State, MS 39762
Phone: 662-325-2806
Fax: 662-325-8898
Email: physics@msstate.edu

Graduate study is offered in the Department of Physics and Astronomy leading to the degree of Master of Science in Physics; both thesis and non-thesis options are offered. The department operates an interdisciplinary program leading to the degree of Doctor of Philosophy in Engineering with a concentration in Applied Physics. A specific program, depending on the research interest of the student, is established by consultation between the student and his/her advisor. The department requires an M.S. (either thesis or non-thesis) from Mississippi State University or another recognized university as a prerequisite for admission to the Applied Physics Ph.D. graduate program. The non-thesis M.S. option provides a means of enabling the Ph.D.-track student to complete graduate education in a more timely manner.

Major areas of study are: computational physics, theoretical and experimental optics; diagnostics using the techniques of conventional, imaging, and laser spectroscopy; experimental and theoretical nuclear structure physics; intermediate energy nuclear physics; microwave spectroscopy; astrophysics; and physics.
education. Graduate research and teaching assistantships are available.

**Admission Criteria**—TOEFL scores are used following the General Requirements for Admission by the University.

**Program of Study/Completion Requirements**—All thesis M.S. students will be expected to complete a core curriculum consisting of PH 8233, PH 8743, and any two of PH 8243, PH 8213, and PH 8313. In addition, all thesis M.S. students are required to take a minimum of six hours of Ph 8000 Research/Thesis. A thesis is required of all thesis M.S. students. All non-thesis M.S. candidates will be expected to complete a core curriculum of PH 8213, PH 8233, PH 8243, PH 8313, PH 8743, and PH 8753, and must pass a written qualifying examination on the Physics core courses. After successfully passing the qualifying exam, non-thesis M.S. students are required to pass an oral comprehensive exam.

All Ph.D. candidates will be expected to complete a core curriculum of PH 8213, PH 8233, PH 8243, PH 8313, PH 8743, and PH 8753. Other courses taken will emphasize the area of specialization. In addition, all Ph.D. candidates are required to take a minimum of 20 credit hours of PH 9000 Research/Dissertation. All Ph.D. candidates must pass written preliminary examinations on Physics core courses and, if required by their graduate advisory committee or the Physics department head, on their Engineering or other applied courses as well as an oral preliminary examination on the proposed dissertation topic and course work. A dissertation is required of all Ph.D. candidates.

**Provisional Admission**—A student who has not fully met the requirements stipulated by the University and the appropriate department for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. The student must have as his or her initial objective advancement to regular status. A student admitted provisionally is eligible for advancement to regular status after receiving a 3.00 GPA on the first nine hours of regular graduate-level courses attempted after admission to the program. Transfer or unclassified graduate hours will not apply. If a 3.00 GPA is not attained, the provisional student may be dismissed from the graduate program.

**Academic Performance**—A candidate for a degree must average B or higher on all courses attempted for graduate credit after admission to the program. No grade under C will be accepted for graduate credit; thus, a student may be terminated if he or she obtains more than two grades below a C in courses taken for graduate credit or fails to obtain a C or better in any repeated course. With the approval of the graduate coordinator and the college dean, a student may repeat one course per degree, except for those approved for repeated credit (e.g. special topics, individual studies, thesis, dissertation, etc.). Both courses will remain on the permanent transcript, and both grades will be computed in final averages. This policy applies to all courses (even those not on the program of study) taken as a graduate student related to a specific program. Repeat courses must be taken at Mississippi State University. No additional program credit hours will be generated from a repeated course. Graduate students are not permitted to enroll for courses carrying pass/fail credit.

**Prerequisite and Core Courses**—A Bachelor of Science in physical sciences or related fields will be considered as a prerequisite for receiving graduate credit for the courses listed below.

For additional information, contact:
Graduate Coordinator
P.O. Box 5167
Mississippi State, MS 39762
Phone: 662-325-2806
E-mail: physics@msstate.edu.

**Graduate Courses**—Course prerequisites are noted in parentheses.

- PH 6013 Selected Topics in Physics for Teachers. 3 hours
- PH 6023 Astronomy for Teachers. 3 hours
- PH 6033 Demonstrations and Concepts for Physics Teachers. 3 hours
- PH 6043 Demonstrations and Concepts for Physics Teachers II. 3 hours
- PH 6113 Electronic Circuits for Scientists (PH 1133 or PH 2223 and MA 2733). 3 hours
- PH 6123 Digital Electronics for Scientists (PH 1133 or 2223). 3 hours
- PH 6113 Electronic Circuits for Scientists (PH 1133 or PH 2223 and MA 2733). 3 hours
- PH 6123 Digital Electronics for Scientists (PH 1133 or 2223). 3 hours
- PH 6142 Intermediate Laboratory. 2 hours
- PH 6152 Modern Physics Laboratory. 2 hours
- PH 6213 Intermediate Mechanics (PH 1133 or PH 2233 and MA 2733). 3 hours
- PH 6223 Intermediate Mechanics (PH 4213/6213). 3 hours
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Hours</th>
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<tr>
<td>PH 6323</td>
<td>Electromagnetic Fields I (PH 1133 or PH 2233, MA 2743). 3 hours</td>
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<tr>
<td>PH 6333</td>
<td>Electromagnetic Fields II (PH 4323/6323). 3 hours</td>
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<tr>
<td>PH 6413</td>
<td>Thermal Physics (PH 3613, MA 2743). 3 hours</td>
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<td>PH 6433</td>
<td>Computational Physics (PH 3613 and MA 3253). 3 hours</td>
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<td>PH 6513</td>
<td>Intermediate Optics (PH 1123 or PH 2233, MA 2733). 3 hours</td>
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<td>PH 6613</td>
<td>Nuclear and Particle Physics (PH 3613). 3 hours</td>
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<td>PH 6713</td>
<td>Introduction to Quantum Mechanics (PH 3613 and MA 3253). 3 hours</td>
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<td>PH 6723</td>
<td>Applications of Quantum Mechanics (PH 4713/6713). 3 hours</td>
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<tr>
<td>PH 6813</td>
<td>Introduction to Solid State Physics (PH 3613). 3 hours</td>
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<td>PH 6990</td>
<td>Special Topics in Physics. 1-9 hours</td>
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<td>PH 7000</td>
<td>Directed Individual Study. 1-6 hours</td>
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<tr>
<td>PH 8000</td>
<td>Research/Thesis. 1-13 hours</td>
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<td>PH 8013</td>
<td>Modern Topics for Physics Teachers. 3 hours</td>
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<tr>
<td>PH 8213</td>
<td>Mechanics (a good undergraduate training in physics and mathematics and consent of instructor). 3 hours</td>
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<tr>
<td>PH 8233</td>
<td>Methods of Theoretical Physics I (consent of instructor). 3 hours</td>
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<td>PH 8243</td>
<td>Methods of Theoretical Physics II (PH 8233). 3 hours</td>
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<td>PH 8313</td>
<td>Electromagnetic Theory (PH 4333/6333 or equivalent). 3 hours</td>
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<td>PH 8513</td>
<td>Statistical Mechanics (PH 4713 and PH 4413). 3 hours</td>
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<td>PH 8613</td>
<td>Nuclear Physics I (PH 4723/6723). 3 hours</td>
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<td>PH 8623</td>
<td>Nuclear Physics II (PH 8613, 8743). 3 hours</td>
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<td>PH 8743</td>
<td>Quantum Mechanics I (PH 4723/6723, MA 3313). 3 hours</td>
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<td>PH 8753</td>
<td>Quantum Mechanics II (PH 8743). 3 hours</td>
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<td>PH 8803</td>
<td>Molecular Structure (PH 8743). 3 hours</td>
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<td>Solid State Physics (PH 8743). 3 hours</td>
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<td>PH 8990</td>
<td>Special Topics in Physics. 1-9 hours</td>
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<tr>
<td>PH 9000</td>
<td>Research/Dissertation. 20 hours</td>
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**Plant And Soil Sciences**

**College of Agriculture and Life Sciences**

Dr. Vance Watson, Dean  
Dr. Michael Collins, Department Head and Graduate Coordinator  
117 Dorman Hall  
Box 9555  
Mississippi State, MS 39762  
662-325-2311

Graduate study offered in the Department of Plant and Soil Sciences leads to the Master of Science in Agriculture degree with concentrations in Agronomy, Horticulture, or Weed Science and also to the Doctor of Philosophy degree in Agronomy, Horticulture, or Weed Science. The department has an extensive research program which provides a diversity of problems for thesis and dissertation research under the supervision of experienced and highly trained scientists. The Department of Plant and Soil Science offers graduate programs in Plant Breeding and Genetics, Crop Simulation, Crop Modeling, Agronomy, Soil Sciences, Crop Physiology, Weed Science, Turfgrass Science, and Horticulture. In Horticulture, a student may conduct research in the area of fruits, floriculture, ornamentals, or vegetables. Graduate programs are designed to develop skills in research techniques in reference to the individual needs of each student. This program is developed and administered by a departmental committee within the student’s area of specialization and may include courses dealing with statistics, computer science, mathematics, physics, biology, chemistry, biochemistry, electron microscopy, radio-chemistry, etc., as well as traditional agronomic, horticultural, and weed sciences courses. Graduate assistantships are provided.
subject to availability of funds. An undergraduate grade average of B or better is required to be eligible for an assistantship. Request for additional information should be addressed to Head of the Department of Plant and Soil Sciences, P. O. Box 9555, Mississippi State, MS 39762.

Agronomy

Admissions Criteria:
- M.S. concentration and Ph.D. in Agronomy
- TOEFL score of 500 (173 computer-based)
- GRE not required

Program of Study—The minimum number of required hours is 30 hours (24 hours course work with 12 hours being 8000 or above plus six hours of thesis). A thesis defense is required. An exit seminar describing thesis research is also required.

A student in the M.S. non-thesis option program must successfully complete 30 hours of graduate level courses of which at least 15 must be courses numbered 8000 or above. Three hours of Directed Individual Study (PSS 7000) are required, and the student must develop a research paper approved by the student's graduate committee. An oral comprehensive exam is required.

For the Ph.D. degree, the student must successfully complete a program of study as presented by the student’s major advisor and graduate committee. Twenty hours of Dissertation Research (PSS 9000) and two seminars (PSS 8811-8831) to include an exit seminar describing the student's dissertation research are required. A qualifying examination is required at the beginning of the student's third semester.

Provisional Admission—A student who has not met the requirements stipulated by the University for admission to graduate study (GPA of 2.75) may be granted admission as a degree-seeking graduate student with provisional status. The student will be eligible for advancement to regular status after attaining a 3.00 GPA on the first nine hours of graduate level courses taken at Mississippi State University (transfer and unclassified graduate hours do not apply). Normally, it is expected that a student will remove the provisional admission status during his or her initial semester of enrollment. If a GPA of 3.00 is not attained, the provisional student may be dismissed from the graduate program.

Academic Performance—Students in the M.S. and Ph.D. degree programs must maintain a 3.00 GPA after admission to the program. No grade of less than a C will be accepted for graduate credit. More than two grades of C or below constitute grounds for dismissal from the program.

Prerequisite and Core Courses—As specified by the student’s major professor and graduate committee.

Completion Requirements:
- For the M.S. thesis-option degree, a thesis and oral defense are required.
- For the Ph.D. degree, original research, a preliminary examination, a dissertation, and an oral defense are required. The preliminary examination will be administered when course work is completed.

Graduate Courses—Course prerequisites are noted in parentheses.

Crops:
- PSS 6103 Forage and Pasture Crops. 3 hours
- PSS 6123 Grain Crops. 3 hours
- PSS 6133 Fiber and Oilseed Crops. 3 hours
- PSS 6414 Turf Management. 4 hours
- PSS 6423 Golf Course Operations (PSS 6414). 3 hours
- PSS 6443 Athletic Field Management (PSS 3303, PSS 4414, or consent of instructor). 3 hours
- PSS 6444 Plant Tissue Culture (BIO 4214/6214 or equivalent). 4 hours
- PSS 6483 Introduction to Remote Sensing Technologies. 3 hours
- PSS 6503 Plant Breeding (PO 3103 or equivalent). 3 hours
- PSS 6823 Turfgrass Weed Management. 3 hours
- PSS 6990 Special Topics in PSS. 1-9 hours
- PSS 7000 Directed Individual Study. 1-6 hours
- PSS 8000 Research/Thesis. 6 hours
- PSS 8103 Pasture Development. 3 hours
- PSS 8123 Crop Ecology (BIO 4213/6213 or permission of instructor). 3 hours
- PSS 8163 Environmental Plant Physiology. 3 hours
PSS 8513 Advanced Plant Breeding (PSS 4503/6503 or equivalent) [Same as GNS 8113]. 3 hours

PSS 8543 Biometrical Genetics in Plant Breeding (PSS 4503/6503 and ST 8114) [Same as GNS 8143]. 3 hours

PSS 8811-8831 Seminar. 1-3 hours

PSS 8990 Special Topics in PSS. 1-9 hours

PSS 9000 Research/Dissertation. 20 hours

**Seed Science:**
- PSS 6223 Seed Production. 3 hours
- PSS 6990 Special Topics in PSS. 1-9 hours
- PSS 7000 Directed Individual Study. 1-6 hours
- PSS 8000 Research/Thesis. 6 hours
- PSS 8203 Seed Physiology (PSS 4243/6243 or consent of instructor). 3 hours
- PSS 8990 Special Topics in PSS. 1-9 hours
- PSS 9000 Research/Dissertation. 20 hours

**Soils:**
- PSS 6313 Soil Fertility and Fertilizers (PSS 3303 and junior standing). 3 hours
- PSS 6314 Soil Microbiology (BIO 3304) Same As [BIO 4324/6324]. 4 hours
- PSS 6323 Soil Classification (PSS 3303). 3 hours
- PSS 6333 Soil Conservation and Land Use (PSS 3303). 3 hours
- PSS 6373 Geospatial Agronomic Management (PSS 3303 and PSS 3133). 3 hours
- PSS 6603 Soil Chemistry (PSS 3303). 3 hours
- PSS 7000 Directed Individual Study. 1-6 hours
- PSS 8000 Research/Thesis. 6 hours
- PSS 8314 Clay Mineralogy. 4 hours
- PSS 8333 Advanced Soil Fertility. 3 hours
- PSS 8343 Model Watershed Hydrology (PSS 3301/3303 or consent of instructor). 3 hours

PSS 8990 Special Topics in PSS. 1-9 hours

PSS 9000 Research/Dissertation. 20 hours

**Horticulture**

**Admission criteria for each degree:**
- Admission tests scores - None
- TOEFL scores - A TOEFL minimum score of 500 or 173 (CBSS - Computer-Based Score Scale) is required to be considered for graduate school.

**Program of Study:**

**Master of Science Degree**—The minimum number of required hours is 30 hours (24 hours) course work with 12 hours being 8000 or above plus six hours of thesis. A thesis defense is required.

**Ph.D. Degree**—A minimum number of 30 hours of course work is required. After two semesters, the student is required to take a qualifying examination. After completing course work, an oral preliminary examination will be administered. Original research and dissertation are also required, including a dissertation defense, and final examination.

**Provisional Admission**—A student who has not fully met the requirements stipulated by the University or the department for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. The student will be eligible for advancement to regular status after receiving a 3.00 GPA on the first nine hours of graduate level courses taken at Mississippi State University. Transferred and unclassified graduate courses do not apply. Normally, it is expected that a student will remove his or her provisional admission status during the initial semester of enrollment. If a 3.00 is not attained, the provisional student may be dropped from the graduate program.

**Academic Performance**—The general academic performance and continued enrollment policies as stipulated by the Office of Graduate Studies will be followed.

**Prerequisite and Core Courses**—As stipulated by the major professor, the departmental graduate coordinator, and the dean.
- M.S. specific requirements – Statistics (ST 8114) and Seminar (PSS 8811)
- Ph.D. specific course requirements – Biochemistry (BCH 6603), Statistics (ST 8214), and Seminar (PSS 8811-8831)
Completion Requirements:

- A thesis and thesis defense are required for a Master of Science degree. M.S. candidates are required to take an oral examination, a written examination, or both.
- Ph.D. Degree - The dissertation is required of all candidates for the doctorate, and a minimum of twenty semester hours of research for the dissertation must be scheduled. The graduate committee must approve the dissertation topic, the outline, and final product.

Graduate Courses—Courses prerequisites are noted in parentheses.

- **PSS 6143** Advanced Fruit Sciences (PSS 3043 or equivalent). 3 hours
- **PSS 6343** Greenhouse Management (BIO 1203, PSS 3301 and PSS 3301). 3 hours
- **PSS 6353** Arboriculture and Landscape Maintenance. 3 hours
- **PSS 6363** Nursery Management (PSS 2423, PSS 3473 and PSS 3923). 3 hours
- **PSS 6444** Plant Tissue Culture (BIO 1203 or equivalent and BIO 4214/6214). 4 hours
- **PSS 6453** Vegetable Production (PSS 3303, PSS 3301 and BIO 4204). 3 hours
- **PSS 6503** Plant Breeding (PO 3103) [Same as PSS 4503]. 3 hours
- **PSS 6613** Floriculture Crop Programming (PSS 4343/6343). 3 hours
- **PSS 6990** Special Topics in PSS. 1-9 hours
- **PSS 7000** Directed Individual Study. 1-6 hours
- **PSS 8000** Research/Thesis. 6 hours
- **PSS 8513** Advanced Plant Breeding (PSS 4503/6503)[Same as GNS 8113]. 3 hours
- **PSS 8553** Plant Growth and Development (BIO 4214/6214 and CH 2503). 3 hours
- **PSS 8554** Plant Genetic Engineering (PSS 6443 or PSS 6444 and BCH 6713). 4 hours
- **PSS 8563** Post Harvest Physiology of Horticultural Plants (Organic Chemistry and BIO 4214/6214 or equivalent). 3 hours
- **PSS 8573** Morphology of Horticultural Plants (BIO 4204/6204). 3 hours
- **PSS 8613** Methods of Horticultural Research. 3 hours
- **PSS 8811-8831** Seminar. 1-3 hours
- **PSS 8990** Special Topics in PSS. 1-9 hours
- **PSS 9000** Research/Dissertation. 20 hours

Weed Science

Admissions Criteria:

- **M.S. in Weed Science**
  Overall GPA of 3.00 or GPA of 3.00 on last 60 hours of undergraduate work

- **Ph.D. in Weed Science**
  GPA of 3.25 on Master’s degree.
  Completion of GRE and submission of test scores. TOEFL score of 550 (173 computer-based) for international students.

Program of Study—Students in the M.S. program must successfully complete 30 hours of graduate courses as presented by the student’s major advisor and graduate committee of which half must be 8000-level and above. Six hours of Research/Thesis (PSS 8000) are required. The student pursuing the M.S. degree will present an exit seminar describing his or her research.

For the Ph.D. degree, the student must successfully complete a program of study as presented by the student’s major advisor and graduate committee. Twenty hours of Research/Dissertation (PSS 9000) and two seminars (PSS 8811-8831) to include an exit seminar describing the student’s dissertation research are required. A qualifying examination after the student has completed two semesters, a preliminary exam after completion or within six hours of completing course work, and an oral exam are required.

Provisional Admission – A student not meeting the 3.00 GPA admission requirement may be admitted on a provisional status. A student will be eligible for advancement to regular admission status after attaining a 3.00 GPA on the first nine hours taken after admission to the program. Transfer and unclassified graduate hours do not apply. If a GPA of 3.00 is not attained, the student may be dismissed from the graduate program.
**Academic Performance**—Students in the M.S. and Ph.D. degree programs must maintain a 3.00 GPA after admission to the program. No grade below C will be accepted for graduate credit. More than two grades of C or below constitute grounds for dismissal.

**Prerequisite and Core Courses**—As specified by the student’s major professor and graduate committee.

**Completion Requirements**—For the M.S. degree, a thesis and an oral thesis defense are required. For the Ph.D., original research, a dissertation, a preliminary exam and an oral defense are required.

**Graduate Courses**—Course prerequisites are noted in parentheses.

PSS 6483 Introduction to Remote Sensing Technologies (Senior or Graduate standing, or consent of instructor). 3 hours

PSS 6633 Weed Biology and Ecology (BIO 1203, PSS 3133). 3 hours

PSS 6813 Herbicide Technology (PSS 3133). 3 hours

PSS 6823 Turfgrass Weed Management. 3 hours

PSS 7000 Directed Individual Study. 3 hours

PSS 8000 Research/Thesis. 6 hours

PSS 8634 Environmental Fate of Herbicides (CH 4513/6513, PSS 4813/6813). 4 hours

PSS 8701-8791 Current Topics in Weed Science (PSS 4813/6813) or consent of instructor). 1-9 hours

PSS 8724 Herbicide Physiology and Biochemistry (PSS 4813/6813, BIO 4214/6214 CH 4513/6513 or consent of instructor). 4 hours

PSS 8811-8831 Seminar. 1-3 hours

PSS 9000 Research/Dissertation. 20 hours

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**Political Science and Public Administration**

**College of Arts and Sciences**

Dr. Philip B. Oldham, Dean  
Dr. Dave Breaux, Department Head  
Dr. Ed Clyynch, Graduate Coordinator  
105 Bowen Hall  
P.O. Box PC  
662-325-2711  
Contact: ejc1@ps.msstate.edu

The Department of Political Science and Public Administration offers graduate study leading to the Doctor of Philosophy (Ph.D.) in Public Policy and Administration, the Master of Public Policy and Administration (M.P.P.A.) and the Master of Arts (M.A.) in Political Science. The department awards a limited number of graduate assistantships.

**Public Policy and Administration**

**Ph.D. Admission Criteria**—A student admitted to the Ph.D. program must have earned a graduate degree from an accredited university with a master’s level grade point average of at least 3.35. The applicant must submit the results of the Graduate Record Examination (GRE); three letters of recommendation; a current resume, two samples of previously written research (e.g., graduate thesis or capstone analysis) or analytic work completed in his or her professional career; and a statement of professional intent. The Ph.D. committee interviews most applicants.

An international applicant whose native language is not English must have a score of 600 or better on the Test of English as a Foreign Language (TOEFL). A foreign national whose native language is not English and who holds a degree from a college or university in the U.S. must submit a TOEFL score of at least 600 if the verbal GRE score is lower than 500.

**Program of Study/Completion Requirements**—The Doctor of Philosophy degree in Public Policy and Administration requires a minimum of 65 semester hours (beyond the master’s degree) comprised of 15 hours of public administration core courses, 12 hours of public policy core courses, nine hours in
a selected concentration, nine hours of research methodology, and 20 hours of dissertation research. The objectives of the program include: 1) preparing graduates for academic teaching careers and 2) preparing graduates for management careers in state and local administration.

Assistantships are available for full-time study. An applicants interested in being considered for financial assistance must indicate that interest at the time of application.

**Unsatisfactory Performance**—A student in the Ph.D. program will be dismissed if he or she:
- Has an unsatisfactory Diagnostic Review, or
- Receives grades of C or lower in seven or more credits of graduate work, or
- Fails the preliminary exams a second time.

**Master of Public Policy and Administration (M.P.P.A.)**
The 42-hour Master of Public Policy and Administration program strives to professionalize and diversify public service. The program prepares persons to serve effectively as public administrators at the national, state, and local levels of government.

**Admission Criteria**—A competitive applicant for the M.P.P.A. program must have completed the last two years of undergraduate work with a grade point average of 3.00; applicants with previous graduate work must have a grade point average of 3.00 on such course work. Moreover, the applicant must submit three letters of recommendation. An applicant with a lower grade point average may be admitted if she or he has a competitive score on the Miller Analogies Test or on the verbal, quantitative, and analytical writing portions of the GRE.

An international applicant whose native language is not English must have a score of 600 or better on the Test of English as a Foreign Language (TOEFL). An international applicant whose native language is not English and who holds a degree from a college or university in the U.S. must submit a TOEFL score of at least 600 if the verbal Graduate Record Examination score is lower than 500.

**Provisional Admission**—An applicant who fails to meet admission requirements may be admitted on a provisional basis. A students admitted on a provisional basis must receive no grade lower than B during the initial nine hours of graduate work.

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**Program of Study/Completion Requirements**—The Master of Political Science and Administration program consists of four facets:

1. **Required Courses**
   - PPA 8103 Seminar in Public Administration
   - PPA 8703 Government Organization and Administrative Theory
   - PPA 8713 Public Personnel Management
   - PPA 8723 Public Budgeting and Financial Management
   - PPA 8733 Public Program Evaluation
   - PPA 8743 Administrative Law
   - PPA 8803 Research Methods for Public Affairs
   - PPA 8823 State Government Administration
   - PPA 8833 City and County Management
   - PPA 8903 Public Policy

2. **Elective Courses**—12 hours
   Each student must complete a 12-hour elective concentration to augment knowledge, skills, and abilities acquired in required courses. Concentrations improve prospects for a rewarding career in a particular aspect of the public service.

**Unsatisfactory Performance**—A student in the M.P.P.A. program will be dismissed if he or she:
- Receives grades of C or lower in seven or more credits of graduate work, or
- Fails the comprehensive examination a second time.

**Political Science**

**Master of Arts Admission Criteria**—A competitive applicant for the Master of Arts in Political Science program must have completed the last two years of undergraduate work with a grade point average of 3.00; an applicant with previous graduate work must have a grade point average of 3.00 on such course work. Moreover, the applicant must submit three letters of recommendation. An applicant with a lower grade point average may be admitted if he or she has a competitive score on the Miller Analogies Test or on the verbal, quantitative, and analytical writing portions of the GRE.

An international applicant whose native language is not English must have a score of 600 or better on the Test of English as a Foreign Language
An international applicant whose native language is not English and who holds a degree from a college or university in the U.S. must submit a TOEFL score of at least 600 if the verbal Graduate Record Examination score is lower than 500.

Provisional Admission—An applicant who fails to meet admission requirements may be admitted on a provisional basis. A student who is admitted on a provisional basis must receive no grade lower than B during the initial nine hours of graduate work.

Program of Study/Completion Requirements—The department offers a Master of Arts under Plan One (thesis) and Plan Two (non-thesis) options. The Plan One (thesis) option is open to anyone who obtains approval by the M.A. Committee. It requires a minimum of 24 semester hours of approved course work, comprised of Research Methods, Public Policy and 12 hours of additional political science courses, and six hours of approved electives. In addition, Plan One requires an acceptable thesis and passing a comprehensive examination on all course work and the thesis. The Plan Two (non-thesis) option is open to anyone with at least 18 undergraduate semester hours in social science courses, including nine hours in political science, who meets the minimum admission requirements. It requires a minimum of 33 semester hours of approved course work, comprised of Research Methods, Public Policy, 12 hours of additional political science core courses, and 15 hours of approved electives. If all or part of the elective course work is completed outside of political science, students must choose courses from no more than two other departments. Plan Two candidates must pass a comprehensive examination on all course work.

Unsatisfactory Performance—A student in the Master of Arts program will be dismissed if he or she:

- Receives grades of C or lower in seven or more credits of graduate work, or
- Fails the comprehensive examination a second time, or
- Receives unsatisfactory grades for two semesters in PS 8000 Thesis Research (thesis only)

Graduate Courses—Course prerequisites are noted in parentheses.

American Politics:

- PS 6113 State Government (PS 1113). 3 hours
- PS 6163 The Chief Executive (PS 1113). 3 hours
- PS 6173 Legislative Process (PS 1113). 3 hours
- PS 6183 Judicial Process (PS 1113). 3 hours
- PS 6193 Mississippi Judicial Systems. 3 hours
- PS 6203 Political Parties and Electoral Problems (PS 1113). 3 hours
- PS 6213 Campaign Politics (PS 1113 and junior standing). 3 hours
- PS 6223 Dynamics of American Democracy (PS 1113). 3 hours
- PS 6253 Southern Politics (PS 1113). 3 hours
- PS 6263 Mississippi Government and Politics (PS 1113). 3 hours
- PS 6273 African American Politics (PS 1113). 3 hours
- PS 6283 Public Opinion (PS 1113). 3 hours
- PS 6293 Political Behavior (PS 1113). 3 hours
- PS 6743 Environmental Policy (PS 1113, PS 2703, or consent of instructor). 3 hours
- PS 8113 Seminar in State Government and Politics (PS 4113 and nine hours of related courses, or consent of instructor). 3 hours
- PS 8153 Seminar in Campaign Politics (PS 8103 or consent of instructor). 3 hours
- PS 8513 Readings in Local Government and Politics (consent of instructor). 3 hours
- PS 8523 Readings in State Government and Politics (consent of instructor). 3 hours
- PS 8533 Readings in National Government and Politics (consent of instructor). 3 hours
- PS 8903 Public Policy [same as PPA 8903]. 3 hours
PS 9103 American Political Institutions [Same as PPA 9103] (consent of instructor). 3 hours
PS 9893 American Political Behavior [Same as PPA 9893] (PS 9803 and consent of instructor). 3 hours

International Politics:
PS 6303 United States Foreign Policy (PS 1313). 3 hours
PS 6313 Principles of International Law (PS 1313). 3 hours
PS 6323 International Organization (PS 1313). 3 hours
PS 6333 Theories of International Relations (PS 1313). 3 hours
PS 6343 International Conflict and Security (PS 1313 and junior standing). 3 hours
PS 6353 International Political Economy (PS 1313 or consent of instructor). 3 hours
PS 6383 National Security Policy (PS 1313). 3 hours
PS 6393 The Global Context (junior standing or consent of instructor). 3 hours
PS 8303 Seminar in International Relations (PS 1313 and 9 hours of related courses, or consent of instructor). 3 hours
PS 8553 Readings in International Relations (consent of instructor). 3 hours

Comparative Politics:
PS 6543 African Politics (PS 1513). 3 hours
PS 6553 West European Politics (PS 1513). 3 hours
PS 6573 South and Southeast Asian Politics (PS 1513). 3 hours
PS 6593 Latin American Politics (PS 1513). 3 hours
PS 6623 Politics of the Third World (PS 1513). 3 hours
PS 8203 Seminar in Comparative Government (PS 1513 and 9 hours of related courses or consent of instructor). 3 hours
PS 8543 Readings in Comparative Government and Politics (consent of instructor). 3 hours

Research Methods:
PS 6464 Political Analysis (six hours in political science). 4 hours
PS 6990 Special Topics in Political Science. 1-9 hours
PS 8803 Research Methods for Public Affairs [same as PPA 8803]. 3 hours
PS 8813 Quantitative Methods for Public Affairs (PS 8803 or PPA 8803) [Same as PPA 8813]. 3 hours
PS 8990 Special Topics in Political Science. 1-9 hours

Research:
PS 7000 Directed Individual Study. 1-6 hours
PS 8000 Research/Thesis. 6 hours

Master of Public Policy and Administration:
PS 6703 Principles of Public Administration (PS 1113). 3 hours
PPA 7000 Directed Individual Study. 1-6 hours
PPA 8103 Seminar in Public Administration. 3 hours
PPA 8123 State Government Administration. 3 hours
PPA 8133 City and County Management. 3 hours
PPA 8143  Civil Rights and Affirmative Action.  3 hours
PPA 8153  Seminar in Privatization.  3 hours
PPA 8193  Seminar in Intergovernmental Relations.  3 hours
PPA 8400  Public Administration Internship.  1-6 hours
PPA 8703  Government Organization and Administrative Theory.  3 hours
PPA 8713  Public Personnel Management.  3 hours
PPA 8723  Public Budgeting and Financial Management.  3 hours
PPA 8733  Public Program Evaluation.  3 hours
PPA 8743  Administrative Law.  3 hours
PPA 8793  Directed Research in Public Administration (PPA 8803 and special permission).  3 hours
PPA 8803  Research Methods for Public Affairs [same as PS 8803].  3 hours
PPA 8813  Quantitative Methods for Public Affairs (PPA 8803 or PS 8803) [same as PS 8813].  3 hours
PPA 8833  Systems in Public Administration.  3 hours
PPA 8903  Public Policy [same as PS 8903].  3 hours
PPA 8990  Special Topics in Public Policy Administration.  1-9 hours

Ph.D. in Public Policy and Administration:
PPA 9000  Research/Dissertation.  20 hours
PPA 9103  American Political Institutions [same as PS 9103] (consent of instructor).  3 hours
PPA 9413  Normative Analysis of American Public Policy [same as PS 9413].  3 hours
PPA 9603  Scope of American Public Administration (consent of instructor).  3 hours
PPA 9613  Rural Government Administration I: Theoretical and Environmental Aspects (consent of instructor).  3 hours
PPA 9623  Rural Government Administration II: Implementation Aspects (consent of instructor).  3 hours
PPA 9703  Organization Behavior in the Public Sector (consent of instructor).  3 hours
PPA 9713  Administration of Human Resources in a Public Sector Environment (consent of instructor).  3 hours
PPA 9723  Public Budgeting Processes and Their Policy Implications (consent of instructor).  3 hours
PPA 9803  Multivariate Analysis and Design for Public Affairs (consent of instructor).  3 hours
PPA 9893  American Political Behavior [same as PS 9893] (PPA 9803 and consent of instructor).  3 hours
PPA 9903  Public Policy Formulation and Implementation (consent of instructor).  3 hours

Poultry Science
College of Agriculture and Life Sciences
Dr. Vance Watson, Dean
Dr. G. Wallace Morgan, Department Head and Graduate Coordinator
Hill Poultry Science Building
662-325-3416

Master of Science (M.S.)—The Poultry Science Department offers the Master of Science degree (M.S.) in Agriculture with a concentration in Poultry Science. The department also offers M.S. and Ph.D. programs with concentrations in the interdisciplinary programs of genetics, animal physiology, animal nutrition, and food science. Admission requirements and additional detailed information for those interdisciplinary degree programs can be found listed separately under each of the individual programs.

Admission Criteria—Admission requirements for the M.S. in Agriculture degree with a
concentration in Poultry Science are the same as those listed in the General Requirements for Graduate Studies in the College of Agriculture and Life Sciences (CALS) except that any request for Graduate Record Examination (GRE) test scores is dependent upon the faculty member who will serve as the thesis director (major professor) but the GRE score is not a Department of Poultry Science requirement.

Program of Study: Thesis Option—The program of study requires a minimum of 24 semester hours of course work (at least one-half of which are at the 8000 level or above), a comprehensive examination and a thesis. The thesis director and graduate committee will determine specific course requirements for the student’s program. Before the end of the first semester of graduate work, the student must establish his or her graduate committee, complete the necessary paperwork, and gain the faculty members’ consent to participate on the committee. Once the student’s research plan has been established, the student is required to present his/her research plan to the faculty in the form of a departmental seminar.

Program of Study: Non-Thesis Option—The program of study requires a minimum of 30 semester hours of course work with at least 15 hours at the 8000 level or above and a comprehensive examination. The major professor and graduate committee will determine specific course requirements for the student’s program. Before the end of the first semester of graduate work, the student must establish his/her graduate committee, complete the necessary paperwork and gain the faculty members’ consent to participate on the committee.

Provisional Admission—If a student does not fully meet the admission requirements of the program, it may be possible for that student to be provisionally admitted. If provisionally admitted, the student must attain a 3.00 GPA on the first nine hours of graduate courses at Mississippi State University after admission to the program. Transfer and unclassified graduate hours will not apply. If a 3.00 GPA is not attained, the student may be dismissed from the graduate program.

Academic Performance—Satisfactory academic performance standards are the same as for CALS except as follows: The student is allowed to make no more than two Cs in courses taken for graduate credit. The student will be recommended for dismissal if he or she receives a third C or any grade below a C. In addition, the student’s committee reserves the right to establish a “core” course or courses whereby any grade below a B in one of those courses is not accepted. The student will be recommended for dismissal if he or she receives a C or any grade below a C in a core course. The student must have a final GPA of 3.00 or higher after admission to the program to graduate.

Completion Requirements—Requirements for completion of the M.S. in Poultry Science are the same as those for CALS except that students in Poultry Science are required to participate in a limited teaching capacity, such as a guest lecturer, in one course during work on the degree. That limited teaching capacity will be determined by the student’s graduate committee when the student’s program of study is established.

To secure additional information write to Dr. Wallace Morgan, Head, Poultry Science Department, Box 9665, Mississippi State, MS 39762 or e-mail at wmorgan@poultry.msstate.edu.

Graduate Courses—Course prerequisites are noted in parentheses.

PO 6313 Management of Commercial Layers. 3 hours
PO 6323 Management of Broiler Breeders. 3 hours
PO 6333 Broiler Production. 3 hours
PO 6413 Poultry Nutrition. 3 hours
PO 6423 Feed Manufacturing [same as NTR 7423]. 3 hours
PO 6513 Poultry Processing [same as FST 4513/6513]. 3 hours
PO 6523 Commercial Broiler Processing Technology. 3 hours
PO 6824 Poultry Physiology [same as PHY 6614]. 4 hours
PO 6833 Poultry Anatomy. 3 hours
PO 6990 Special Topics in Poultry. 1-9 hours
PO 7000 Directed Individual Study. 1-6 hours
PO 8000 Research/Thesis. 6 hours
PO 8513  Poultry and Food Science
Readings (PO 4513/6513 or three hours in related courses offered in Animal Science, Dairy Science or Horticulture) [same as FST 8513]. 3 hours

PO 8823  Physiology of Digestion and Metabolism (CH4523/6523) [same as PHY 8823]. 3 hours

PO 8990  Special Topics in Poultry. 1-9 hours

PO 9000  Research/Dissertation. 20 hours

Project Management
(See Business and Administration)

Psychology
College of Arts and Sciences
Dr. Philip B. Oldham, Dean
Dr. Stephen B. Klein, Department Head
Dr. Kevin J. Armstrong, Graduate Coordinator
110 Magruder Hall
662-325-3202
E-mail: grad@psychology.msstate.edu
For additional information, write the Department of Psychology
Drawer 6161
Mississippi State, MS 39762

The Department of Psychology offers graduate study leading to the Master of Science in Psychology degree and the Doctor of Philosophy in applied cognitive science (an interdisciplinary program). Major areas of study at the master’s level are as follows: clinical psychology and experimental psychology. A limited number of graduate teaching and research assistantship are available.

Admission Criteria—Prerequisites for admission into the graduate program include all the general requirements of the Office of Graduate Studies and the following courses at the undergraduate level:

- for all applicants—statistics, experimental psychology, and biological/physiological psychology;
- for the cognitive science doctoral program—introductory cognitive psychology and history of psychology;
- for the clinical master’s program—abnormal psychology;
- for the master’s program in experimental psychology—history of psychology and psychology of learning.

The applicant without all of the undergraduate course requirements may be admitted into the graduate program contingent upon making up any deficiencies as soon as possible. Requirements for admission into the graduate program are as follows: three letters of recommendation, an official score on the Graduate Record Examination (GRE) general test, and transcripts of all college/university work. The applicant not meeting the GPA requirement of the University (2.75) may receive provisional admission if other factors (e.g., publications, work experience, excellent grades at the end of an undergraduate career) suggest the potential for successful graduate-level work.

Program of Study/Completion Requirements—A student in the doctoral program is required to complete successfully courses (number of hours in parentheses) in the following psychology core areas: foundation of psychology (nine hours), statistics (six hours), research methods (three hours), and the cognitive program core (six hours). In addition, the doctoral candidate must take 12 hours (with at least six from outside the psychology department) from a specific concentration area in cognitive science. The doctoral student must also attend a research seminar during the fall and spring semesters, complete a research project during the first year, take a general examination during the fifth semester, and take a specialty exam during the sixth semester. A total of 72 graduate credit hours is required for the degree, with at least 21 hours of dissertation research.

The student in the master’s program is required to complete successfully PSY 8214, PSY 8513, PSY 8006, and six hours of research/thesis. A non-thesis option is not available. Additionally, in a 47-hour program, the student in the clinical concentration must take PSY 8323, PSY 8333, PSY 8354, PSY 8383, PSY 8454, PSY 8464, PSY 8533, and PSY 8573. Other than the 13 hours required of all master’s students, there are no specific requirements in the 40-hours experimental concentration.
Provisional Admission—If a student does not meet the GPA (2.75) admission requirements of the program, the student may be admitted provisionally. In that case, the student must attain a 3.00 GPA on the first nine hours of graduate courses at MSU after admission to the program. Transferred and unclassified graduate hours do not apply. If a 3.00 is not achieved, the student may be dismissed from the graduate program.

Academic Performance—Unsatisfactory performance in the graduate program in psychology is defined as any of the following:
1. earning two grades of C or lower in graduate courses in a semester;
2. earning three grades of C or lower;
3. in the doctoral program—failing the preliminary examination;
4. in any graduate program—failing the research defense;
5. unsatisfactory evaluation of a thesis or dissertation; or
6. failing a required component of study.

Any one of these or a combination will constitute the basis for review for possible dismissal. The graduate coordinator and the student’s graduate committee will review the record and recommend a final course of action: immediate dismissal or the establishment of a probationary period in which corrective action must take place. Appeal of the dismissal can be made by submitting a written appeal statement to the department head. If the dismissal is upheld by the department head upon the student’s appeal, the student can then submit a written appeal to the dean of the College of Arts and Sciences.

Graduate Courses—Course prerequisites are noted in parentheses.

**PSY 6103**  Psychometrics (PSY 3103). 3 hours
**PSY 6123**  Quantitative Techniques in Psychology Using Computers (PSY 3103 or equivalent and consent of instructor). 3 hours
**PSY 6223**  Drug Use and Abuse (PSY 1013). 3 hours
**PSY 6353**  Psychology and the Law (PSY 1013 and junior standing). 3 hours
**PSY 6403**  Biological Psychology (PSY 1013). 3 hours
**PSY 6423**  Sensation and Perception (PSY 1013, PSY 4403). 3 hours
**PSY 6523**  Industrial Psychology (PSY 1013). 3 hours
**PSY 6643**  Social Cognition (PSY 4623 or consent of instructor). 3 hours
**PSY 6653**  Cognitive Science (CS 4633/6633 or PSY 4713 or PHI 4143/6143 or AN 4623/6623 or EN 4403/6403). 3 hours
**PSY 6713**  Language and Thought. 3 hours
**PSY 6733**  Memory (PSY 1013). 3 hours
**PSY 6743**  Psychology of Human-Computer Interaction (PSY 3713 or CS 4663/6663 or IE 4113/6113 or consent of instructor). 3 hours
**PSY 6753**  Applied Cognition Psychology (PSY 3713 or IE 4113 or consent of instructor). 3 hours
**PSY 6903**  Seminar in Psychology (PSY 1013). 3 hours
**PSY 6983**  Psychology of Aging (PSY 1013). 3 hours
**PSY 6990**  Special Topics in Psychology. 1-9 hours
**PSY 7000**  Directed Individual Study. 1-6 hours
**SY 8000**  Research/Thesis. 6 hours
**PSY 8111-8151**  Scientist-Practitioner Applications (consent of instructor). 2 hours
**PSY 8214**  Quantitative Methods in Psychology II (PSY 3103). 4 hours
**PSY 8223**  Systems and Theories of Psychology (PSY 4323). 3 hours
**PSY 8313**  Developmental Psychology (PSY 3803). 3 hours
**PSY 8323**  Psychopathology (PSY 3213). 3 hours
**PSY 8333**  Systems of Psychotherapy (consent of instructor). 3 hours
**PSY 8354**  Intelligence Testing (consent of instructor). 4 hours
**PSY 8364**  Personality Appraisal (PSY 8323). 4 hours
**PSY 8373**  Child Psychopathology and Treatment of Childhood Disorders (PSY 3213). 3 hours
PSY 8383 Behavior Therapy (consent of instructor). 3 hours
PSY 8403-8413 Seminar (consent of department head required of all non-psychology students). 3 hours
PSY 8454-8464 Professional Practicum (departmental consent). 4 hours
PSY 8503 Learning (PSY 3343). 3 hours
PSY 8513 Psychological Research (PSY 4313). 3 hours
PSY 8533 Introduction to Clinical Practicum in Psychology (consent of instructor). 3 hours
PSY 8573 Psychopharmacology (PSY 4403 and PSY 8323). 3 hours
PSY 8613 Advanced Social Psychology (PSY 4623). 3 hours
PSY 8713 Issues and Methods in Cognitive Psychology (graduate standing). 3 hours
PSY 8723 Cognitive Skills Models (graduate standing) [same as CSE 8613]. 3 hours
PSY 8731 Applied Cognitive Science Research Seminar. 3 hours
PSY 8803 Advanced Quantitative Methods for Industrial/Organizational and General Psychology (PSY 8214). 3 hours
PSY 8990 Special Topics in Psychology. 1-9 hours
PSY 9000 Research/Dissertation. 20 hours

Religion
(See Philosophy and Religion)

School Psychology
(See Counseling, Education Psychology and Special Education)

Secondary Education
(See Curriculum and Instruction)

Sociology, Anthropology, and Social Work

College of Arts and Sciences
Dr. Philip B. Oldham, Dean
Dr. Martin L. Levin, Department Head
Dr. Xiaohe Xu, Graduate Coordinator, Sociology
Dr. Janet Rafferty, Graduate Coordinator, Applied Anthropology

This department has graduate programs leading to the Master of Science and Doctor of Philosophy degrees in sociology and the Master of Arts degree in anthropology.

Sociology

207 Bowen Hall
PO Box C
Mississippi State, MS 39762
662-325-2495

Public Policy and Administration
(See Political Science and Public Administration)
Admission Criteria—An applicant is required to have completed prerequisite undergraduate courses in statistics, sociological theory, and sociological methodology. The applicant must submit 1) a completed application form for graduate study at MSU; 2) official transcripts from previous institutions; 3) a GPA of 3.00 on the last two years of baccalaureate work; 4) an academic writing sample in English (a sample of the student’s choice); 5) the General Graduate Records Examination [GRE] scores; 6) three letters of recommendation (from people who know the student’s academic abilities and potential); 7) a statement of purpose (explaining why the student wishes to study Sociology at MSU and how the program at MSU will assist the student in attaining goals).

Program of Study—A student seeking a Master of Science degree in Sociology may select either a thesis or non-thesis option. A student contemplating entry into a Ph.D. program upon completion of the M.S. must select the thesis option. Required courses for both the thesis and non-thesis M.S. programs include SO 8103 Graduate Sociological Theory I, SO 8213 Graduate Research Design, SO 8274 Graduate Social Statistics I, and SO 8203 Data Management in the Social Sciences. A student selecting the thesis option is required to complete a minimum of 24 hours of course work with at least half of the courses at the 8000 level or above plus six hours of research/thesis. A student selecting the non-thesis option must complete a minimum of 36 hours of course work with at least 15 hours at the 8000 level.

Minimum requirements for the Ph.D. degree include 24 hours of course work in sociological tools (theory, methods, and statistics), nine hours of course work in general sociology, 15 hours of course work in an area of specialization, nine additional hours of electives, and 20 hours of dissertation research. After completing a sequence of six courses (SO 8203 Data Management in the Social Sciences, SO 8213 Graduate Research Design, SO 8103 Graduate Sociological Theory I, SO 8113 Graduate Sociological Theory II, SO 8274 Graduate Social Statistics I, and SO 8284 Graduate Social Statistics II) a Ph.D. student is required to pass a Ph.D. qualifying examination in the areas of theory, methods, and statistics. The student typically takes the qualifying exam during the third or fourth semester of study. After completing all course work, the student takes a comprehensive preliminary examination in the area of specialization. Areas of specialization include social demography; deviance/criminology and social control; family and gender studies; rural sociology and community; and social inequality.

Graduate minors in Sociology must complete 12 hours of graduate courses in sociology and pass a written examination prepared by the minor professor. A minor committee member must serve on the student’s graduate committee.

Provisional Admission—A student who has not fully met the requirements stipulated by the University and the Sociology program for admission may be granted admission as a degree-seeking graduate student with provisional status. The student must have as his or her initial objective advancement to regular status. The provisional student must receive a 3.00 GPA on the first nine hours of graduate-level courses on the program of study taken at Mississippi State University (transfer and unclassified graduate hours will not apply) in order to achieve regular status. If a 3.00 is not attained, the provisional student will be dismissed from graduate study. While in the provisional status, students are not eligible to hold a graduate assistantship.

Academic Performance—Continuous enrollment in the M.S. program in Sociology is dependent upon a satisfactory evaluation of academic performance and progress toward completion of the degree. Unsatisfactory performance will result in dismissal from the program. A student’s performance is deemed unsatisfactory if one or more of the following occurs:

1. More than two letter grades below a B in a student’s graduate course work;
2. Failure to maintain a cumulative 3.00 GPA for two consecutive semesters;
3. More than one unsatisfactory U grade for thesis research;
4. Two failures on the M.S. Exit Examination or two failures on the M.S. Thesis Defense.

Continuous enrollment in the Ph.D. program in Sociology is dependent upon a satisfactory evaluation of academic performance and progress toward completion of the degree. Unsatisfactory performance will result in dismissal from the Ph.D. program. A student’s performance is deemed unsatisfactory if one or more of the following occurs:

1. More than two letter grades below a B in a student’s graduate course work;
2. More than one letter grade below a B in a student’s graduate Core I course work;
3. Failure to maintain a cumulative 3.00 GPA for two consecutive semesters;
4. More than one unsatisfactory U grade for dissertation research;
5. Two failures on the Ph.D. Qualifying Examination;
6. Two failures on the Ph.D. Preliminary Examination;

All graduate students' progress will be monitored by the graduate coordinator and/or the student's major advisor. If a student's performance borders on unsatisfactory or if a student is not making timely progress, he or she will be formally notified of the situation and advised accordingly.

Completion Requirements:

Master of Science—Upon the completion of course work for a student's program of study, a student in the Master’s thesis option program must defend a thesis proposal. Once the thesis proposal is accepted by the student's thesis committee, the student may proceed to carry out the thesis research in close consultation with his or her thesis committee. After the thesis committee unanimously agrees that the thesis is defensible the student must pass a public defense of the thesis. Additionally, a Master’s thesis option student must enroll for a minimum of six thesis research hours. A student in the Master’s non-thesis option program must take an exit examination. The non-thesis exit examination may be taken during the semester that all course work for a student’s program of study is completed or the semester immediately following completion of the course work. The non-thesis exit examination is a five hour, in-class exam which covers social theory, social research methods and statistic, and general sociology.

Ph.D.—After the completion of course work for a student's program of study, the successful completion of the Ph.D. Qualifying examination, and the Ph.D. Preliminary examination, a student is admitted into doctoral candidacy. A doctoral candidate must defend a dissertation proposal. Once the dissertation proposal is accepted by the student’s dissertation committee, the candidate may proceed to conduct dissertation research in close consultation with his or her dissertation committee. After the dissertation committee unanimously agrees that the dissertation is defensible, the candidate must pass a public defense of the dissertation. Additionally, the doctoral candidates must enroll for a minimum of 20 dissertation research hours.

NOTE: Thesis and dissertation research are subject to review and approval by the University’s Institutional Review Board (IRB).

Graduate Courses—Course prerequisites are noted in parentheses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>SO 6113</td>
<td>Social Organization and Change (SO 1003)</td>
<td>3 hours</td>
</tr>
<tr>
<td>SO 6123</td>
<td>Poverty Analysis: People, Organizations and Programs (SO 1003)</td>
<td>3 hours</td>
</tr>
<tr>
<td>SO 6173</td>
<td>Environment and Society (AN 1103 or SO 1003 or consent of instructor) [same as AN 6173]</td>
<td>3 hours</td>
</tr>
<tr>
<td>SO 6203</td>
<td>The Family in the United States (SO 1203)</td>
<td>3 hours</td>
</tr>
<tr>
<td>SO 6223</td>
<td>Comparative Family Systems (SO 1203)</td>
<td>3 hours</td>
</tr>
<tr>
<td>SO 6233</td>
<td>Juvenile Delinquency (SO 3603) [same as COR 4233/6233]</td>
<td>3 hours</td>
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<tr>
<td>SO 6273</td>
<td>Sociology of Education (SO 1003 and junior standing)</td>
<td>3 hours</td>
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<tr>
<td>SO 6303</td>
<td>Urban Sociology (SO 1003)</td>
<td>3 hours</td>
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<tr>
<td>SO 6313</td>
<td>Contemporary Muslim Societies (any 1000-level sociology or religion course or permission of instructor) [REL 6313]</td>
<td>3 hours</td>
</tr>
<tr>
<td>SO 6333</td>
<td>Sociology of Sport (SO 1003 and junior standing)</td>
<td>3 hours</td>
</tr>
<tr>
<td>*SO 6403</td>
<td>Sociology of Gender (SO 1003 or consent of instructor)</td>
<td>3 hours</td>
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<tr>
<td>SO 6413</td>
<td>Aging and Retirement in American Society (nine hours of sociology or related disciplines)</td>
<td>3 hours</td>
</tr>
<tr>
<td>SO 6423</td>
<td>Health and Society</td>
<td>3 hours</td>
</tr>
<tr>
<td>SO 6433</td>
<td>Sociology of Death and Dying</td>
<td>3 hours</td>
</tr>
<tr>
<td>SO 6513</td>
<td>Correctional Systems (SO 3603)</td>
<td>3 hours</td>
</tr>
<tr>
<td>SO 6623</td>
<td>Language and Culture (AN 1103 or consent of instructor) [same as AN 4623/6623 and EN 4623/6623]</td>
<td>3 hours</td>
</tr>
<tr>
<td>SO 6633</td>
<td>Sociolinguistics (SO 1003 or consent of instructor) [same as AN 4633/6633 and EN 4633/6633]</td>
<td>3 hours</td>
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</tbody>
</table>
Applied Anthropology
206 Cobb Institute Building
P.O. Box C
Mississippi State, MS 39762
662-325-2013
Rafferty@anthro.msstate.edu

Graduate study leading to a Master of Arts degree in Applied Anthropology is offered by the Department of Sociology, Anthropology, and Social Work.

Admission Criteria:
1. A complete application for graduate study at MSU;
2. Official transcripts showing credits earned at institutions of higher education;
3. A 3.00 GPA on the last 60 hours of baccalaureate work;
4. A statement of purpose explaining why the applicant wishes to study anthropology at MSU;
5. Scores on the General Graduate Record Examination (GRE);
6. Three letters of recommendation from people who know the applicant's academic ability and potential;
A student who is admitted to the program and who has not completed Introduction to Archaeology, Introduction to Biological Anthropology, and Introduction to Cultural Anthropology will be required to take them. These courses are not offered for graduate credit. A student who has not taken Anthropological Theory (AN 6123) or its equivalent must take it for graduate credit. A student who plans to specialize in archaeology/bioarchaeology must complete archaeology field school, including both survey (AN 2516) and excavation (AN 3516) portions, if he or she has not had equivalent courses or field experience.

A student enters the graduate program in the fall or spring semester. To be considered for admission, all application materials must be received by April 15 (fall admission) or November 1 (spring admission).

A request to waive the internship requirement must be provided in writing to the anthropology graduate coordinator by the graduate student. The request must give details of previous jobs and experience in applied settings, including length of each, employer, supervisor, and kinds of anthropology-related tasks performed. The student must arrange for submission of a letter from each agency or firm for which the student claims paid or volunteer work. Such letters must detail the kinds of work performed, the anthropological knowledge required, and must attest to the student’s satisfactory performance of the work. This material will become part of the student’s file. The waiver request will be considered by the anthropology graduate coordinator in consultation with other Anthropology faculty. If the request is granted, a signed copy of the waiver agreement will be placed in the student’s file. Credit will not be awarded for waived internships.

Assistantships—Applications for assistantships must be completed separately from admission applications and be submitted directly to the Anthropology Graduate Coordinator. Assistantship applications may be obtained from the coordinator (contact information below). An academic writing sample is required as part of the assistantship application. Assistantship application deadlines are April 1 (for fall semester) and October 15 (for spring semester).

Program of Study—Degree requirements include a thesis, a one-semester- or one-summer-long internship (six hours credit), an oral exam, and 24 hours of graduate course work, at least half of which is at the 8000 level or above, for a total of 36 hours of graduate credit. A student may elect to specialize either in applied archaeology/bioarchaeology or in applied cultural anthropology. The program exposes students to proposal writing, consulting practices, and ethics.

The emphasis in applied archaeology/bioarchaeology focuses on cultural resource management. Speciality areas include archaeological surface survey and excavation methods; artifact analysis; settlement pattern and spatial analysis; environmental archaeology; zooarchaeology; and osteoarchaeology. The area emphasis is the Southeastern U.S. although principles and methods are adaptable to application anywhere. Required courses include AN 8203 Readings and Research in Applied Anthropology, AN 6523 Public Archaeology, and AN 8533 Readings in Archaeology: Theory. Six to seven credit hours of technical elective courses at the graduate level also are required.

The applied cultural anthropology specialization emphasizes medical anthropology; program assessment; and communication in multi-cultural settings. Ethnographic and qualitative research methods, as practiced in applied settings, are stressed. Required courses include AN 8203 Readings and Research in Applied Anthropology.

The program focuses on preparing students for placement in the public and private sectors as cultural resource specialists, public health analysts, and program evaluators, as well as preparing them for further graduate study.

Graduate Minor—The department offers a graduate minor in anthropology consisting of 12 graduate hours including AN 6123 Anthropological Theory. The minor is flexible in content and designed to complement the student’s work in other fields. Courses taken for a graduate minor in anthropology must be taught by anthropology faculty. A student selecting this minor must include a minor committee member on his/her graduate committee.

Academic Performance—Unsatisfactory performance in the program will result in dismissal. Unsatisfactory performance is defined as the failure to maintain a B average in graduate courses attempted after admission to the program, a grade of U, D, or F in two courses, failure of the oral thesis defense, an evaluation of unsatisfactory on the thesis, or any other failure of a required component of the program of study. Evaluation of graduate grade point averages will occur following the first two regular semesters of course work and every semester thereafter.

Provisional Admission—Students who have not fully met the requirements stipulated by the University and the Anthropology program for admission may be granted admission as a
degree-seeking graduate student with provisional status. Such students must have as their initial objective advancement to regular status.

Provisional students must receive a 3.00 GPA on the first nine hours of graduate level courses on their program of study taken at Mississippi State University (transfer and unclassified graduate hours will not apply) in order to achieve regular status. If a 3.00 is not attained, the provisional student will be dismissed from graduate study. While in the provisional status, students are not eligible to hold a graduate assistantship.

**Completion Requirements**—A thesis is required for completion of the Master of Arts degree in anthropology.

**Information**—To obtain additional information, contact the Anthropology Graduate Coordinator; Department of Sociology, Anthropology, and Social Work; P.O. Box C, Mississippi State, MS, 39759; or visit the website at [http://www.msstate.edu/dept/anthropology/programs](http://www.msstate.edu/dept/anthropology/programs), or telephone 662-325-2013.

**Graduate Courses:**

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<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>AN 6123</td>
<td>Anthropological Theory</td>
<td>3</td>
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<tr>
<td>AN 6133</td>
<td>Medical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>AN 6143</td>
<td>Ethnographic Methods</td>
<td>3</td>
</tr>
<tr>
<td>AN 6163</td>
<td>Anthropology of International Development</td>
<td>3</td>
</tr>
<tr>
<td>AN 6173</td>
<td>Environment and Society [same as SO 6173]</td>
<td>3</td>
</tr>
<tr>
<td>AN 6303</td>
<td>Human Variation and Origins</td>
<td>3</td>
</tr>
<tr>
<td>AN 6313</td>
<td>Human Identification</td>
<td>3</td>
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<tr>
<td>AN 6403</td>
<td>Introduction to Linguistics (AN 1103 or consent of instructor) [same as EN 6403].</td>
<td>3</td>
</tr>
<tr>
<td>AN 6523</td>
<td>Public Archaeology</td>
<td>3</td>
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<tr>
<td>AN 6623</td>
<td>Language and Culture [AN 1103 or consent of instructor] [same as EN/SO 6623].</td>
<td>3</td>
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<td>AN 6633</td>
<td>Sociolinguistics [AN 1103 or consent of instructor] [same as EN/SO 6633].</td>
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<tr>
<td>AN 6990</td>
<td>Special Topics in Anthropology</td>
<td>1-9</td>
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<tr>
<td>AN 7000</td>
<td>Directed Individual Study</td>
<td>1-3</td>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>AN 8103</td>
<td>Seminar in Applied Cultural Anthropology</td>
<td>3 hours</td>
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<tr>
<td>AN 8203</td>
<td>Readings and Research in Applied Anthropology</td>
<td>3 hours</td>
</tr>
<tr>
<td>AN 8216</td>
<td>Internship in Applied Anthropology</td>
<td>6 hours</td>
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<tr>
<td>AN 8303</td>
<td>Bioarchaeology</td>
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<tr>
<td>AN 8513</td>
<td>Southeastern Archaeology</td>
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<tr>
<td>AN 8523</td>
<td>Environmental Archaeology</td>
<td>3 hours</td>
</tr>
<tr>
<td>AN 8533</td>
<td>Readings in Archaeology: Theory</td>
<td>3 hours</td>
</tr>
<tr>
<td>AN 8553</td>
<td>Readings in Archaeology: Applications</td>
<td>3 hours</td>
</tr>
<tr>
<td>AN 8990</td>
<td>Special Topics in Anthropology</td>
<td>1-9 hours</td>
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</tbody>
</table>

**Special Education**

* (See Counseling, Education Psychology, and Special Education)

**Statistics**

* (See Mathematics and Statistics)

**Taxation**

* (See Accounting)

**Technology and Education**

* (See Instructional Systems, Leadership, and Workforce Development)
Admission Criteria—To be admitted to the Veterinary Medical Sciences Graduate Program the applicant must either hold a D.V.M. degree from a recognized college of veterinary medicine or have at least a bachelor’s degree from a fully recognized four-year institution of higher learning. The scholastic record for all undergraduate, graduate, and professional school coursework will be reviewed and should exceed a minimum GPA of 3.00 for undergraduate work; GPA of 3.00 for graduate work; GPA of 2.75 for the four years of the veterinary curriculum or 2.75 for the last two years of the veterinary curriculum. Also required are three reference letters, a minimum TOEFL score of 550 for international students where English is not the primary language, and if a Graduate Record Examination (GRE) score is available it will be considered.

Program of Study/Completion Requirements—Course requirements for the master’s degree are a minimum of 30 hours approved graduate credit which includes one statistics and one seminar course, one-half or more of course work must be 8000 level courses or above, and a final examination (oral and/or written) which covers both the major and supportive fields and includes defense of the thesis.

Course requirements for a Ph.D. are a minimum of 60 hours beyond a master’s which include at least 21 hours of dissertation research, three seminar courses, two statistics courses, and pass preliminary and final examinations, both of which can cover the major and supportive fields and includes defense of the dissertation.

Thesis based M.S. and Ph.D. students must present an open seminar of the thesis/dissertation research just prior to oral final examinations. The student must adhere to the University and College regulations regarding his/her graduate program. A non-thesis master’s degree with emphasis in Population Medicine is also available through the Veterinary Medical Science Graduate Program.

Provisional Admission—In special circumstances a student who does not meet admission criteria may be admitted provisionally if approved by the Graduate Advisory Committee. See Provisional Admission under Admission In this publication for provisional requirements.

Academic Performance—If a student does not show satisfactory progress toward meeting academic, research, and/or thesis requirements, his/her performance will be reviewed in a meeting with the student’s graduate committee. This committee may recommend a change in the student’s program or recommend that the student be dismissed from the degree program in the College of Veterinary Medical Science program. In addition, three grades below a B in graduate courses will remove the student from degree candidacy.

For more information write to: Graduate Coordinator, Veterinary Medical Science Program, College of Veterinary Medicine, P.O. Box 6100, Mississippi State, MS 39762-6100 or visit our website: http://www.cvm.msstate.edu.

Graduate Courses—Course prerequisites are listed in parentheses.

CVM 6104 Avian Diagnostic Microbiology. 4 hours
CVM 6113 Avian Histopathology (consent of instructor). 3 hours
CVM 6114 Avian Pathology (consent of instructor). 4 hours
CVM 6134 Aquatic Animal Health Management (one course in microbiology and one course in physiology). 4 hours
CVM 6513 Environmental Toxicology (8 hours biological sciences and 8 hours chemistry). 3 hours
CVM 7000 Directed Individual Study. 1-6 hours
CVM 8000 Research/Thesis. 6 hours
CVM 8011 Seminar. 1 hour
CVM 8031 Current Topics in Molecular Mechanisms of Disease. 1 hour
CVM 8091 Current Topics in Production Animal Medicine (consent of instructor). 1 hour
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tr>
<td>CVM 8105</td>
<td>Avian Medicine Externship</td>
<td>5</td>
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<tr>
<td>CVM 8113</td>
<td>Advanced Diseases of Poultry</td>
<td>3</td>
</tr>
<tr>
<td>CVM 8133</td>
<td>Avian Necropsy (consent of instructor)</td>
<td>3</td>
</tr>
<tr>
<td>CVM 8134</td>
<td>Advanced Fish Diseases (CVM 6134 or consent of instructor).</td>
<td>4</td>
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<tr>
<td>CVM 8141</td>
<td>Seminar Histopathology of Fish Diseases (CVM 6134 or consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>CVM 8143</td>
<td>Epidemiology/Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>CVM 8190</td>
<td>Aquatic Diagnostic Investigation (CVM 6134 or equivalent or consent of instructor).</td>
<td>1-6</td>
</tr>
<tr>
<td>CVM 8301</td>
<td>Advanced Topics in Comparative Immunology.</td>
<td>1</td>
</tr>
<tr>
<td>CVM 8303</td>
<td>Advanced Immunology (BIO 6413 or equivalent or consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>CVM 8315</td>
<td>Immunological Techniques</td>
<td>5</td>
</tr>
<tr>
<td>CVM 8403</td>
<td>Principles of Pharmacology and Pharmacokinetics</td>
<td>3</td>
</tr>
<tr>
<td>CVM 8513</td>
<td>Applied Veterinary Epidemiology</td>
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<tr>
<td>CVM 8614</td>
<td>Helminthology (BIO 1504 or equivalent).</td>
<td>4</td>
</tr>
<tr>
<td>CVM 8624</td>
<td>Protozoology (BIO 1504 or equivalent).</td>
<td>4</td>
</tr>
<tr>
<td>CVM 8701</td>
<td>Pathology Seminar.</td>
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<tr>
<td>CVM 8711</td>
<td>Histopath Descriptions (consent of instructor).</td>
<td>1</td>
</tr>
<tr>
<td>CVM 8723</td>
<td>Advanced General Pathology (consent of instructor).</td>
<td>3</td>
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<tr>
<td>CVM 8735</td>
<td>Mechanisms of Disease (acceptance to dual degree DVM/MS program or consent of Instructor).</td>
<td>5</td>
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<tr>
<td>CVM 8790</td>
<td>Laboratory Diagnostic Services</td>
<td>1-9</td>
</tr>
<tr>
<td>CVM 8805</td>
<td>Advanced Small Animal Clinical Neurology (must already have registerable veterinary degree and consent of instructor).</td>
<td>5</td>
</tr>
<tr>
<td>CVM 8890</td>
<td>Economic and Performance Medicine (consent of instructor).</td>
<td>3</td>
</tr>
<tr>
<td>CVM 8990</td>
<td>Special Topics in Veterinary Medicine.</td>
<td>3</td>
</tr>
<tr>
<td>CVM 9000</td>
<td>Research/Dissertation</td>
<td>20</td>
</tr>
</tbody>
</table>

### Weed Science

**(See Plant and Soil Sciences)**

### Wildlife And Fisheries

**College of Forest Resources**

Dr. George M. Hopper, Dean/Director  
Dr. Bruce D. Leopold, Department Head  
Dr. Donald C. Jackson, Graduate Coordinator  
Thompson Hall 109  
662-325-3830

The Wildlife and Fisheries Department offers graduate education leading to the Master of Science in Wildlife and Fisheries Science with emphasis in either wildlife ecology, fisheries ecology, or aquaculture. The Master of Science degree requires 24 hours of course work, including one graduate course in statistics, a thesis, a thesis defense, and a comprehensive oral examination. A Ph.D. degree is offered in Forest Resources with emphasis in wildlife ecology, fisheries ecology, or aquaculture. The Ph.D. requires a comprehensive written diagnostic examination, one graduate level statistics course, variable hours of course work (determined by graduate committee), oral and written comprehensive preliminary examinations, a dissertation and oral defense of dissertation. A limited number of graduate research assistantships are available. For additional information write to Department Head, Department of Wildlife and Fisheries, Box 9690, Mississippi State, MS 39762-9690.
Admission Criteria—The applicant for a master’s degree must hold a bachelor’s degree and must be sponsored by an extramurally funded research project. The applicant for the Ph.D. degree must hold a master’s degree and must be sponsored by an extramurally funded research project. An applicant cannot be admitted to the department until a faculty member agrees to serve as an advisor. The applicant for the master’s program must have a minimum GPA of 3.00 out of 4.00 for the last 60 semester hours of undergraduate academic work and must take the general Graduate Record Examination (GRE). An applicant for the Ph.D. program must have a M.S. degree, a GPA of 3.20 out of 4.00 on all prior graduate studies (excluding research or thesis credits), and must have taken the general GRE. The Ph.D. candidate must be approved by a vote of all faculty in his or her area (wildlife, fisheries, or aquaculture) with not more than one dissenting vote. Official transcripts of undergraduate and graduate work, GRE scores and TOEFL score (if appropriate) should be sent to the MSU Office of Graduate Studies.

Program of Study/Completion Requirements—Prior to submitting the formal program of study to the Department Head, the student’s graduate committee and major professor will be selected and officially appointed in consultation with the student. A Committee Request Form must be completed by the student with committee members’ signatures and submitted to the department head secretary in the first semester of enrollment. Master of Science graduate committees must include at least three members of the graduate faculty, four if the student has a minor area of study. With permission of the dean of the college, a special appointment may be made for a faculty member not holding a graduate faculty appointment to serve on a student’s committee until the student graduates. Adjunct appointments should be sought in the rare case where continuous student committee involvement is expected due to the nature of the relationship of the candidate and/or his/her agency with the department. The major professor and the graduate coordinator will serve as two members of all committees.

If the student has a minor field outside the department, at least one member of the graduate committee must be from the minor area of study, and that member will be the student’s minor professor. A Ph.D. student’s committee will include the major professor as chairperson, who must be a full member (Level 1) of the graduate faculty and from the major field, the minor professor (if a minor is being pursued by the student), and at least three other members, two of whom are to be drawn from the student’s major field of interest. If, during the course of a student’s tenure, his/her research direction changes, it may be necessary to change the members of the graduate committee or the student’s advisor. Such changes should be submitted on a committee request change form.

The graduate committee and the master’s student will meet during the student’s first semester of work to prepare the program of study. The graduate committee and the Ph.D. student will meet during the student’s second semester of work after he/she has taken any needed statistics courses and the Ph.D. Diagnostic Exam to prepare the program of study. The student must complete this form with the help of his/her major professor and concurrence of his/her graduate committee. The program of study will be kept in the department head secretary’s office and will be forwarded to the Office of Graduate Studies during the student’s last semester of course work.

Twenty-four hours of course work is required for master’s students, at least half of which is at the 8000 level or above, along with six hours of research/thesis.

For doctoral students, the program of study must be sent to the Office of Graduate Studies at the time of announcement of the comprehensive/preliminary examination. Ph.D. students are required to have 20 hours of research/dissertation research and must meet the residency requirement of three years with one full semester (nine hours) or two semesters half-time (six hours each) to the graduate program.

Provisional Admission—A student entering on a provisional basis (available only for master’s students) will be required to take three graduate courses (minimum of nine hours) in the first regular fall or spring semester and make a grade of B or higher in each of these courses. These courses will be selected by the Departmental Probation Committee and will not include special problem courses or thesis research. Failure to meet the grade requirement may result in dismissal and loss of eligibility for readmission to this department’s graduate program. Students on probation are not eligible for an assistantship but may be paid wages.

Students must maintain a cumulative 3.00 GPA on all courses after admission to the program. If a master’s student falls below a 3.00 cumulative average, he/she will be placed on probation for the next fall or spring semester. A master’s student admitted under normal circumstances (not provisional) will be allowed only one probationary semester. If a student is admitted on a provisional basis, he/she will be allowed one
probationary semester beyond that point. If grades do not meet the required B or better in each course taken, the student’s program will result in immediate termination. A doctoral student falling below a 3.00 cumulative average after admission to the program will be immediately dropped from the program unless the student’s committee justifies an exception which is approved by the majority of the faculty.

Unsatisfactory Performance—The graduate student is expected to be familiar with and comply with University, departmental, and subject area requirements. Failure to comply satisfactorily with all requirements may seriously inconvenience the student and, in some cases, may lead to termination of assistantships or dismissal from the graduate program in this department.

Graduate Courses—Course prerequisites are noted in parentheses.

WF 6133 Fisheries Science (ST 3113). 3 hours
WF 6153 Principles of Wildlife Conservation and Management. 3 hours
WF 6173 Fish Physiology. 3 hours
WF 6183 Finfish Aquaculture (ZO 1504 and ZO 2524). 3 hours
WF 6193 Crustacean and Molluscan Aquaculture. 3 hours
WF 6213 Wildlife Damage Management (WF 3133 or WF 3131 or consent of instructor). 3 hours
WF 6221 Limnology Laboratory (WF 3133 or consent of instructor). 1 hour
WF 6222 Limnology. 2 hours
WF 6243 Wildlife Techniques. 3 hours
WF 6253 Application of Spatial Technologies to Wildlife and Fisheries Management. 3 hours
WF 6263 Wildlife Diseases. 3 hours
WF 6313 Fisheries Management (WF 3133 or WF 3131). 3 hours
WF 6323 Wildlife Nutrition and Physiology. 3 hours
WF 6353 Fish and Wildlife Policy and Law Enforcement. 3 hours
WF 6363 Wildlife and Fisheries Administration and Communication. 3 hours
WF 6373 Pond and Stream Management (WF 4223/6223). 3 hours
WF 6383 Wetlands Ecology and Management. 3 hours
WF 6394 Waterfowl Ecology and Management. 4 hours
WF 6463 Human Dimensions of Fish and Wildlife Management. 3 hours
WF 6473 Wildlife and Fisheries Practices. 3 hours
WF 6484 Upland Avian Ecology and Management (WF 3133/3131 and WF 4153 and senior standing or consent of instructor). 4 hours
WF 6494 Large Mammal Ecology and Management (WF 3133/3131 and WF 4153 and senior standing). 4 hours
WF 6990 Special Topics in Wildlife and Fisheries. 1-9 hours
WF 7000 Directed Individual Study. 1-6 hours
WF 8000 Research/Thesis. 6 hours
WF 8012 Advanced Applied Ecology. 2 hours
WF 8134 Research Methods in Wildlife and Fisheries Sciences. 4 hours
WF 8144 Theory of Wildlife Population Ecology (ST 3113 or consent of instructor). 4 hours
WF 8154 Quantitative Applications in Wildlife Population Ecology (WF 8144, ST 8114 or consent of instructor). 4 hours
WF 8223 Management of Impounded River Ecosystems. 3 hours
WF 8243 Conservation Biology. 3 hours
WF 8273 Advance Fisheries Management (WF 4133/6133 or equivalent). 3 hours
WF 8343  Conceptual Ecology and Natural Resource Management (WF 8012 or consent of instructor). 3 hours
WF 8344  Wildlife Habitat Analysis and Management (BOT 4203). 4 hours
WF 8413  Advanced Fishery Science (WF 4133/6133 and ST 3113 or equivalent). 3 hours
WF 8593  Fish and Shellfish Nutrition (NTR 4115 or General Biochemistry). 3 hours
WF 8990  Special Topics in Wildlife and Fisheries. 1-9 hours
WF 9000  Research/Dissertation. 20 hours

Women’s Studies
An Interdisciplinary Program
College of Arts and Sciences
Dr. Jeralynn Cossman, Interim Director
Department of Sociology, Anthropology, and Social Work
P.O. Box C
Mississippi State University, MS 39762
662-325-7880
Dr. John Bartkowski, Co-Director

Women’s Studies is an academic discipline concerned with the contributions and struggles of women. Mississippi State University uses an interdisciplinary approach to enhance students’ knowledge of the effect of women in all fields of study. Through its College of Arts and Sciences, MSU offers a Women’s Studies Concentration of twelve semester hours of course work to be selected from a specified group of appropriate courses. This concentration is intended to enhance students’ sensitivities to issues related to gender in contemporary societies. The Women’s Studies offices are located in the Ellen Bryant Women’s Resource Center in the Lower Level of Rice Hall.

Zoology
(See Biological Sciences)
The Graduate Faculty

In Principles of Accreditation: Foundations for Quality Enhancement, the Southern Association of Colleges and Schools’ Commission on Colleges states concerning faculty that

an institution gives primary consideration to the highest earned degree in the discipline … and also considers competence, effectiveness, and capacity, including, as appropriate, undergraduate and graduate degrees, related work experiences in the field, professional licensure and certifications, honors and awards, continuous documented excellence in teaching, or other demonstrated competencies and achievements that contribute to effect teaching and student learning outcomes. For all cases, the institution is responsible or justifying and documenting the qualifications of its faculty. (December 2001)

Accordingly, the Graduate Faculty of Mississippi State University are those whose expertise and professional accomplishment are considered by their departmental head and college dean to be of superior quality and, as such, appropriate for instruction of students enrolled in graduate degree programs.

Privileges and Duties/Responsibilities

The privileges and duties/responsibilities of Graduate Faculty members include:

1. teaching graduate-level courses and seminars;
2. advising graduate students;
3. supervising/guiding graduate student research and study to its completion;
4. serving on graduate committees, including thesis and dissertation committees;
5. serving on examining committees for graduate students;
6. serving as a graduate representative on doctoral preliminary and final oral examinations;
7. remaining current and actively productive in terms of scholarly/research/creative endeavors;
8. participating in the formulation of graduate curricula and policy; and
9. being eligible to serve on the Graduate Council.

Membership

Membership on the Graduate Faculty shall be restricted to those who (a) have an earned terminal degree (highest degree awarded in the discipline) in or related to the faculty member’s area of assigned graduate responsibility*; and (b) hold academic rank of Assistant Professor or higher, or Research/Extension/Clinical (per Graduate Council March 2005) rank of Assistant Research Professor/Assistant Extension Professor/Assistant Clinical Professor (per Graduate Council March 2005) or higher at Mississippi State University. To be appointed to membership in Level 2 category, the individual must have demonstrated satisfactory performance in scholarly/research/service/creative endeavors according to the criteria prescribed in the tenure and promotion policies document of the individual’s department/school/college. To be appointed to membership in Level 1 category, the individual must have demonstrated excellent and current performance in scholarly/research/service/creative endeavors according to the criteria prescribed in the tenure and promotion policies document of the individual’s department/school/college.

Members of the Graduate Faculty in Level 2 are authorized to: (a) teach graduate-level courses in each field of specialization for which they have formal advanced study or demonstrated competence through independent scholarly activity; (b) to serve as members of any graduate committee, and (c) to serve as chairs of master’s non-thesis committees, chairs/directors of master’s thesis or specialist’s thesis/special problem committees; and (d) to serve as co-director (with a Level 1 member of the Graduate Faculty) of doctoral dissertations.

Members of the Graduate Faculty in Level 1 category of membership are authorized to do (a), (b), and (c) above. In addition, they are authorized to serve as chairs of doctoral committees and as directors of doctoral dissertations. The Graduate Council recommends that Level 1 Assistant Professors chairing or directing his or her first doctoral/dissertation committee be appointed as co-chairs or co-directors with an experienced Level 1 member.

Individuals who are not eligible for Graduate Faculty Membership as described above and individuals who do not hold academic or Research/Extension/Clinical rank or are not employed by Mississippi State University but do meet the requirements/qualifications for appointment to the Level 1 or Level 2 categories...
may be appointed to the Graduate Faculty by the college dean via the recommendation of a department head and his/her college/school dean. Such adjunct appointments will be differentiated for record-keeping purposes as appointments in Level 1-A or Level 2-A categories. The term of appointment for such individuals will be limited and will be determined by the college dean.

The college deans have the authority to approve qualified individuals who do not hold membership on the Graduate Faculty to teach designated graduate courses upon the recommendation of the appropriate department head. Such approval must be renewed every five years.

*Subject to special considerations, an individual who has not earned the highest degree awarded in the discipline but has demonstrated exceptional competence in one’s field of specialization (i.e., has attained high professional status as recognized by one’s professional peers) may be appointed to the Graduate Faculty.

Appointment Process

1. The initial appointment of individuals to the Graduate Faculty, the determination of membership category, or a change in Graduate Faculty membership category shall be approved by the college dean based upon recommendation from the department and/or school.

2. Each department with graduate programs will determine procedures for handling recommendations concerning Graduate Faculty membership at the department level (with the approval of the academic dean of the college/school). Each college/school will determine the procedures for handling recommendations concerning Graduate Faculty membership at the college/school level. The department and/or the college may establish qualifications which exceed the minimum qualifications established by the Graduate Faculty (e.g., a department and/or college may choose to review the quality of theses/dissertations directed by the faculty member).

3. Recommendations for initial appointment to the Graduate Faculty may be made at any time during the academic year. Recommendations for reappointment or a change in Graduate Faculty membership category must be made according to the time lines outlined below in the section entitled “Procedures for Reappointment.”

4. Effective with the Fall 1993 semester, the term of appointment to Level 1 Graduate Faculty shall be for five years. During the fifth year of appointment, Graduate Faculty members in Level 1 and Level 1-A (per Graduate Council, November 2004) categories must undergo review for reappointment. If the department head does not submit a reappointment form to the Office of Graduate Studies, the faculty member will automatically be reappointed in the Level 2 or 2-A category. The underlying criteria for reappointment to Level 1 or Level 1-A membership is a record of sustained involvement in graduate education and a sustained record of scholarly/research/creative endeavors.

Procedures for Reappointment or Change in Level of Membership

1. The Director of the Office of Graduate Studies issues a call for Level 1 and Level 1-A reappointment (i.e., notifies college deans of members due for review during the academic year) or change in level of membership requests by September 1 each year.

2. A request for reappointment or change in level of membership can be initiated by the department head or by the individual faculty member. A request letter should be accompanied by Part I of the past five (5) Annual Faculty Review Forms, which includes a listing of the individual’s publications, presentations, and other scholarly activities. If Annual Faculty Review Forms do not include a listing of theses, Directed Individual Studies, and/or dissertations directed/co-directed for the past five (5) years, this information (if required) should also be provided so that the quality of these documents can be reviewed. In addition, professional development activities for the past five (5) years should be provided (if not included on the Annual Faculty Review Forms). The request is processed through the appropriate departmental procedures (as determined by the department, with approval of the academic dean of the college/school) and college/school procedures (as determined by the college/school) following the same notification requirements as outlined in the Faculty Handbook for promotion and tenure decisions. That is, the faculty member will be officially notified as to the disposition at each level of his/her request. Written recommendations of decisions will come from each level in the process and will be placed on file in all the appropriate offices. The same timeliness used for processing promotion/tenure recommendations should be followed for requests for reappointment or change in level of membership on the Graduate Faculty. That is,
faculty members requesting reappointment must have provided the department head or appropriate official with all pertinent and available information by November 15. Departmental recommendations must be submitted to the academic dean by January 15.

3. University administrators seeking appointment, reappointment or change in level of membership will follow the same procedure as other faculty members. In lieu of the Annual Faculty Review Forms, their request letter should be accompanied by a current vita which contains the following information for the past five years: a listing of theses, Directed Individual Studies, and/or dissertations directed (if required); professional development activities; and a list of publications, presentations, and/or other scholarly activities.

4. The college dean will evaluate the requests and forward the notification of his/her action to the faculty member with copies to the appropriate department head and Director of the Office of Graduate Studies by March 1.

5. The faculty member may withdraw the request for reappointment at any time.

Appeals of faculty regarding Graduate Faculty status recommendations shall be made to the Provost and Vice President of Academic Affairs. Guidelines for the appeals process will be developed by a committee of the Graduate Council.
Accountancy

Level 1

Addy, Noel D., C.P.A., Ph.D., University of Florida, Associate Professor of Accounting

Hollingworth, Danny P., C.P.A., Ph.D., Memphis State University, Professor and Director of School of Accountancy

McNair, Frances, C.P.A., Ph.D., University of Mississippi, Professor of Accounting

Milam, Edward, C.P.A., Ph.D., Louisiana State University, Professor of Accounting

Riggsby, John T., C.P.A., D.B.A., Memphis State University, Associate Professor of Accounting

Level 2

Allen, Paul, D.B.A., Mississippi State University, Associate Professor of Accounting

Dawkins, Louis, C.P.A., Ph.D., University of Arkansas, Adjunct Professor of Accounting

Herring, Clyde E., C.P.A., Ph.D., University of Alabama, Associate Professor of Accounting

Lehman, Mark W., C.P.A., M.B.A., University of Arkansas, Associate Professor of Accounting

McWhorter, Laurie B., Ph.D., University of Kentucky, Assistant Professor of Accounting

Weidenmier, Marcia L., Ph.D., University of Texas, Assistant Professor of Accounting

Aerospace Engineering

Level 1

Bridges, David H., Ph.D., California Institute of Technology, Associate Professor of Aerospace Engineering

Chen, Jen-Ping, Ph.D., Mississippi State University, Associate Research Professor of Computational Engineering

Cinnella, Pasquale, Ph.D., Virginia Polytechnic Institute and State University, Professor of Aerospace Engineering

Edwards, Thomas E., Ph.D., University of Illinois, Research Professor of Aerospace Engineering

Janus, J. Mark, Ph.D., Mississippi State University, Associate Professor of Aerospace Engineering

Koenig, Keith, P.E., Ph.D., California Institute of Technology, Professor of Aerospace Engineering

Lacy, Thomas E., Ph.D., Georgia Institute of Technology, Assistant Professor of Aerospace Engineering

Newman Jr., James C., Ph.D., Virginia Polytechnic Institute and State University, Professor of Aerospace Engineering and Engineering Mechanics

Newman III, James C., Ph.D., Virginia Polytechnic Institute and State University, Associate Professor of Aerospace Engineering

Olsen, Carrie D., Ph.D., The University of Texas at Austin, Assistant Professor of Aerospace Engineering

Olsen, Gregory D., Ph.D., The University of Texas at Austin, Assistant Professor of Aerospace Engineering

Rais-Rohani, Masoud, Ph.D., Virginia Polytechnic Institute and State University, Professor of Aerospace Engineering and Engineering Mechanics

Thompson, David S., Ph.D., Iowa State University, Associate Professor of Aerospace Engineering

Thompson, Joe F., Ph.D., Georgia Institute of Technology, Professor of Aerospace Engineering

Vizzini, Anthony J., Ph.D., Massachusetts Institute of Technology, Professor and Head of Aerospace Engineering

Whitfield, David, Ph.D., University of Tennessee, Adjunct Professor of Aerospace Engineering

Level 2

Lawrence, David L., M.S., Mississippi State University, Director of Raspet Flight Research Lab and Research Professor of Aerospace Engineering
Agricultural and Biological Engineering

Level 1

Batchelor, William D., Ph.D., University of Florida, Professor and Department Head of Agricultural and Biological Engineering

Cathcart, Thomas P., Ph.D., University of Maryland, Professor of Agricultural and Biological Engineering

Gilbert, Jerome, Ph.D., Duke University, Professor of Agricultural and Biological Engineering and Adjunct Associate Professor of Veterinary Medicine

Smith, David B., P.E., Ph.D., University of Missouri, Professor of Agricultural and Biological Engineering

To, Filip Suminto D., Ph.D., Mississippi State University, Associate Professor of Agricultural and Biological Engineering

Warnock, James Neill, Ph.D., University of Birmingham (United Kingdom), Assistant Professor of Agricultural and Biological Engineering

Zardiackas, Lyle D., Ph.D., University of Virginia, Adjunct Associate Professor of Agricultural and Biological Engineering

Level 2

Anthony, W. Stanley, M.S., Mississippi State University, Adjunct Assistant Professor of Agricultural and Biological Engineering

Bandi, David E., Ph.D., Andhra University-India, Adjunct Associate Professor of Agricultural and Biological Engineering

Blair, William D., Ph.D., Clemson University, Adjunct Associate Professor of Agricultural and Biological Engineering

Butler, R. Allen, M.D., Tulane University School of Medicine, Adjunct Assistant Professor

Elder, Steven H., Ph.D., University of Michigan, Adjunct Assistant Professor of Agricultural and Biological Engineering

Johnson, Roger B., Ph.D., University of North Dakota, Adjunct Professor of Agricultural and Biological Engineering

Mayfield, William D., M.S., Mississippi State University, Adjunct Associate Professor of Agricultural and Biological Engineering

McKinion, James, Ph.D., Tulane University, Adjunct Assistant Professor of Agricultural and Biological Engineering

Parsell, Douglas E., Ph.D., University of Florida, Adjunct Assistant Professor of Agricultural and Biological Engineering

Pote, Jonathan W., Ph.D., University of Arkansas, Professor of Agricultural and Biological Engineering

Puckett, Aaron D., Jr., Ph.D., University of Southern Mississippi, Adjunct Professor of Agricultural and Biological Engineering

Sui, Ruixiu, Ph.D., University of Tennessee, Research Assistant Professor of Agricultural and Biological Engineering

Agricultural Economics

Level 1

Allen, Albert J., Ph.D., Mississippi State University, Professor of Agricultural Economics

Coble, Keith H., Ph.D., Texas A&M University, Associate Professor of Agricultural Economics

Fuller, Marty J., Ph.D., Mississippi State University, Director of Federal Relations, Vice President for Research, Professor of Agricultural Economics

Hanson, Terrill R., Ph.D., Auburn University, Associate Professor of Agricultural Economics

Herndon, Cary W., Jr., Ph.D., Oklahoma State University, Professor of Agricultural Economics

Hudson, Darren, Ph.D., Texas Tech University, Associate Professor of Agricultural Economics

Laughlin, David H., Ph.D., Texas A&M University, Professor of Agricultural Economics

Little, Randall D., Ph.D., Oklahoma State University, Professor of Agricultural Economics
Agricultural Information Science and Education

Level 1

Deeds, Jacquelyn P., Ph.D., The Ohio State University, Professor of Agricultural and Extension Education

Jackson, Gary B., Ph.D., The Pennsylvania State University, Associate Professor of Agricultural and Extension Education and Interim Director of Human Sciences

Newman, Michael E., Ph.D., Mississippi State University, Associate Professor of Agricultural and Extension Education and Associate Specialist for Planning and Evaluation, MSU-ES

Raven, Matt R., Ph.D., The Ohio State University, Associate Professor of Agricultural Information Science and Education and Director of User Services, Information Technology Services

Swortzel, Kirk A., Ph.D., Ohio State University, Extension Professor of Agricultural Information Science and Education

Taylor, Walter N., Ed.D., Virginia Polytechnic Institute and State University, Professor of Agricultural and Extension Education and Head of the Department of Agricultural Information Science and Education

Wilkinson, Dehlia Rae, Ph.D., Colorado State University, Extension Professor of Agricultural Information Science and Education

Level 2

Bates, George T., Ph.D., Mississippi State University, Adjunct Professor and Associate Research Director, Alcorn State

Browning, Ned, Ph.D., University of Tennessee, Associate Professor of Agricultural and Extension Education and Leader, Print Media, Agricultural Communications, Division of Agriculture, Forestry and Veterinary Medicine

Gerard, Patrick D., Ph.D., Southern Methodist University, Assistant Professor of Agricultural and Extension Education
<table>
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<tr>
<td><strong>Althen, Thomas G.</strong>, Ph.D., University of Maryland, Professor of Animal and Dairy Sciences</td>
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<tr>
<td><strong>Boyd, Michael E.</strong>, Ph.D., Texas A&amp;M University, Professor of Animal and Dairy Sciences</td>
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<tr>
<td><strong>Kiser, Terry E.</strong>, Ph.D., Michigan State University, Professor and Head of the Department of Animal and Dairy Sciences</td>
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<tr>
<td><strong>Rude, Brian J.</strong>, Ph.D., Auburn University, Associate Professor of Animal and Dairy Sciences and Animal Nutrition</td>
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<tr>
<td><strong>Ryan, Peter L.</strong>, Ph.D., University of Guelph, Associate Professor of Animal and Dairy Sciences</td>
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<td><strong>Willard, Scott T.</strong>, Ph.D., Texas A&amp;M University, Associate Professor of Animal and Dairy Sciences</td>
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<tr>
<td><strong>Crenshaw, Mark</strong>, Ph.D., Mississippi State University, Associate Extension Professor of Animal and Dairy Sciences</td>
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<td><strong>Evans, Richard R.</strong>, Ph.D., University of Georgia, Assistant Professor of Animal and Dairy Sciences</td>
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<tr>
<td><strong>Memili, Erdogan</strong>, Ph.D., University of Wisconsin-Madison, Assistant Professor of Animal and Dairy Sciences</td>
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<tr>
<td><strong>Nicodemus, Molly C.</strong>, Ph.D., Michigan State University, Assistant Professor of Animal and Dairy Sciences</td>
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<td><strong>Parish, Jane A.</strong>, Ph.D., The University of Georgia, Assistant Extension/Research Professor of Animal and Dairy Sciences</td>
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<td><strong>St. Louis, David G.</strong>, Ph.D., Cornell University, Adjunct Assistant Professor of Animal and Dairy Sciences and Animal and Dairy Scientist at South Mississippi Branch Experiment Station</td>
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<td><strong>Smith, Albert E.</strong>, Ph.D., Mississippi State University, Adjunct Assistant Professor of Animal and Dairy Sciences</td>
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<tr>
<td><strong>Smith, Terry R.</strong>, Ph.D., Iowa State University, Assistant Professor of Animal and Dairy Sciences</td>
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<tr>
<td><strong>Vann, Rhonda</strong>, Ph.D., Mississippi State University, Research Animal Scientist/Research Coordinator at Brown Loam Branch Experiment Station</td>
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<tr>
<td><strong>Allen, Albert J.</strong>, Ph.D., Mississippi State University, Professor of Agricultural Economics and Agricultural Economist</td>
</tr>
<tr>
<td><strong>Campbell, Charles</strong>, Ph.D., University of Tennessee, Professor of Economics</td>
</tr>
<tr>
<td><strong>Coble, Keith H.</strong>, Ph.D., Texas A&amp;M University, Associate Professor of Agricultural Economics and Assistant Economist</td>
</tr>
<tr>
<td><strong>Grimes, Paul W.</strong>, Ph.D., Oklahoma State University, Professor of Economics and Head of the Department of Finance and Economics</td>
</tr>
<tr>
<td><strong>Hanson, Terrill R.</strong>, Ph.D., Auburn University, Assistant Professor of Agricultural Economics and Assistant Economist</td>
</tr>
<tr>
<td><strong>Herndon, Cary W., Jr.</strong>, Ph.D., Oklahoma State University, Professor of Agricultural Economics and Agricultural Economist</td>
</tr>
<tr>
<td><strong>Hudson, Darren</strong>, Ph.D., Texas Tech University, Associate Professor of Agricultural Economics and Assistant Economist</td>
</tr>
</tbody>
</table>
Killcreas, Wallace E., Ph.D., Mississippi State University, Professor of Agricultural Economics, Professor of Computer Science, and Agricultural Economist

Laughlin, David H., Ph.D., Texas A&M University, Professor of Agricultural Economics and Agricultural Economist

Little, Randall D., Ph.D., Oklahoma State University, Associate Professor of Agricultural Economics and Associate Economist

Parvin, David W., Jr., Ph.D., University of Florida, Professor of Agricultural Economics and Agricultural Economist

Reinschmiedt, Lynn L., Ph.D., Texas A&M University, Professor and Interim Head of Agricultural Economics

Spurlock, Stan R., Ph.D., University of Georgia, Professor/Economist of Agricultural Economics

Barrow, Larry R., Ph.D., Harvard University, Associate Professor of Architecture

Berk, Michael A., M.A., University of Florida, Professor of Architecture

Brown, Kimberly, M.Arch., Yale University, Director and Assistant Professor of Small Town Center

Clarke, Paul W., M. Arch., Washington University, Assistant Professor of Architecture

Corroto, Carla, Ph.D., Ohio State University, Assistant Professor of Architecture

Fazio, Michael W., NCARB, Ph.D., Cornell University, Professor of Architecture

Lewis, David C., R.A., Ph.D., Georgia Institute of Technology, Associate Professor of Architecture

McCann, Rachel E., R.A., M.Ph.D., University of Cambridge, Associate Professor of Architecture

Perkes, David, M. Arch., Yale School, Associate Professor of Architecture

West, James L., M.Arch., University of Florida, Professor of Architecture and Dean of the School of Architecture

Buege, David J., M.Arch., Princeton University, Associate Professor of Architecture

Monson, Christopher, M.Arch., Harvard University, Assistant Professor of Architecture

Poros, John, M.Arch., Harvard University, Assistant Professor of Architecture

Andrews, William P., MFA, Mississippi State University, Gallery Director and Instructor of Art

DeMarsche, Kay, MFA, University of Colorado, Associate Professor of Art
Biochemistry and Molecular Biology

Level 1

Boyle, John A., Ph.D., Duke University, Professor and Head of Biochemistry and Molecular Biology

Bridges, Susan M., Ph.D., University of Alabama in Huntsville, Professor of Biochemistry

Chen, Yoshen, Ph.D., University of Wisconsin-Madison, Assistant Professor of Food Science and Technology

Courcelle, Justin, Ph.D., Stanford University, Assistant Professor of Biological Sciences

Jenkins, Johnie N., Ph.D., Purdue University, Adjunct Faculty, Director of Crop Science Research Laboratory

Luthe, Dawn, Ph.D., University of Wisconsin, Professor of Biochemistry and Molecular Biology

Ma, Din-Pow, Ph.D., Kent State University, Professor of Biochemistry and Molecular Biology

Peterson, Daniel, Ph.D., Colorado State University, Assistant Professor of Plant and Soil Sciences

Reichert, Nancy A., Ph.D., New Mexico State University, Professor of Horticulture

Willeford, Kenneth, Ph.D., University of California, Riverside, Professor of Biochemistry and Molecular Biology

Level 2

Braasch, Dwaine A., Ph.D., University of Southern Mississippi, Assistant Professor of Biochemistry and Molecular Biology

Jung, Yean-Sung, Ph.D., University of Nebraska, Assistant Professor of Biochemistry and Molecular Biology

Li, Jiaxu, Ph.D., Pennsylvania State University, Assistant Professor of Biochemistry and Molecular Biology

Memili, Erdogan, Ph.D., University of Wisconsin-Madison, Assistant Professor of Biochemistry and Molecular Biology

Peng, Zhaohua, Ph.D., Ohio State University, Assistant Professor of Biochemistry and Molecular Biology

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Biological Sciences

Level 1

Buddington, Randal K., Ph.D., University of California-Davis, Professor of Biological Sciences

Champlin, Franklin R., Ph.D., Oklahoma State University, Professor of Biological Sciences

Courcelle, Justin, Ph.D., Stanford University, Assistant Professor of Biological Sciences

Diehl, Walter J., Ph.D., University of South Florida, Professor of Biological Sciences
Ervin, Gary N., Ph.D., University of Alabama, Assistant Professor of Biological Sciences

Fishbein, Mark, Ph.D., University of Arizona, Assistant Professor of Biological Sciences

Gavini, Nara, Ph.D., University of Melbourne, Professor and Head of Biological Sciences

Linder, Eric T., Ph.D., Brigham Young University, Assistant Professor of Biological Sciences

St. Cyr-Coats, Karen, Ph.D., Louisiana State University, Associate Professor of Biological Sciences

Taylor, Christopher M., Ph.D., University of Oklahoma, Associate Professor of Biological Sciences

Thibaudeau, Giselle, Ph.D., University of Kansas, Associate Professor of Biological Sciences

Wise, Dwayne A., Ph.D., Florida State University, Professor of Biological Sciences

Level 2

Chambers, Janice E., Ph.D., Mississippi State University, Adjunct Associate Professor of Biological Sciences

Downer, Donald N., Ph.D., University of Mississippi Medical Center, Professor and Head of Biological Sciences

Johnston, Carol, Ph.D., University of Illinois, Adjunct Associate Professor of Biological Sciences

Miller, Andrew, Ph.D., University of Louisville, Adjunct Professor of Biological Sciences

Parker, William S., Ph.D., University of Utah, Adjunct Professor of Biological Sciences

Zablotowicz, Robert, Ph.D., University of California, Adjunct Faculty, Research Microbiologist, USDA-AR

Biomedical Engineering

Level 1

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Gilbert, Jerome A., Ph.D., Duke University, Professor of Agricultural and Biological Engineering and Associate Provost of Academic Affairs

King, Roger L., Ph.D., University of Wales, Professor of Electrical and Computer Engineering

Minerick, Adrienne, Ph.D., University of Notre Dame, Assistant Professor of Chemical Engineering

Schulz, Kirk H., Ph.D., Virginia Polytechnic Institute and State University, Director and Earnest W. Deavenport, Jr., Chair

To, Filip Suminto D., Ph.D., Mississippi State University, Associate Professor of Agricultural and Biological Engineering

Young, Lesia Crampton, Ph.D., Texas A&M University, Associate Professor of Industrial Engineering

Zardiackas, Lyle D., Ph.D., University of Virginia, Adjunct Associate Professor of Agricultural and Biological Engineering

Level 2

Cooper, Robert C., D.V.M., Auburn University, Professor of Veterinary Medicine

Elder, Steven H., Ph.D., University of Michigan, Assistant Professor of Agricultural and Biological Engineering

Johnson, Roger B., D.D.S, University of Tennessee; Ph.D., University of North Dakota, Adjunct Professor of Agricultural and Biological Engineering

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Chemical Engineering

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George, Clifford E., P.E., Ph.D., Mississippi State University, Professor of Chemical Engineering

Hernandez, Rafael A., Ph.D., Mississippi State University, Assistant Professor of Chemical Engineering.

Hill, Priscilla J., Ph.D., University of Massachusetts, Assistant Professor of Chemical Engineering

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Minerick, Adrienne R., Ph.D., University of Notre Dame, Assistant Professor of Chemical Engineering.

Rogers, Rudy E., Ph.D., University of Alabama, Professor of Chemical Engineering

Schulz, Kirk H., Ph.D., Virginia Polytechnic Institute and State University, Director and Earnest W. Deavenport, Jr., Chair of Chemical Engineering

Silva, Juan L., Ph.D., Mississippi State University, Adjunct Professor of Chemical Engineering

Toghiani, Hossein, Ph.D., University of Missouri, Associate Professor of Chemical Engineering

Toghiani, Rebecca K. Besselsen, Ph.D., University of Missouri, Associate Professor of Chemical Engineering

Level 2

Fleming, Elizabeth C., Ph.D., Louisiana State University, Adjunct Research Environmental Engineer of Chemical Engineering

French, W. Todd, Ph.D., Mississippi State University, Research Assistant Professor of Chemical Engineering

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Plodinec, M. J., Ph.D., University of Florida, Adjunct Director of Diagnostic Instrumentation and Analysis Laboratory

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Chemistry

Level 1

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Li, Tingyu, Ph.D., Harvard University, Associate Professor of Chemistry

Mead, Keith T., Ph.D., Southampton University, Professor of Chemistry and Head of Chemistry

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Pittman, Charles U., Ph.D., Pennsylvania State University, Professor of Chemistry
Saebo, Svein, Cand. Real., University of Tromso
Professor of Chemistry

Sygula, Andrzej, Ph.D., Jagiellonian University,
Associate Professor of Chemistry

Thomas, Gloria, Ph.D., Louisiana State
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Wilson, W. William, Ph.D., University of North
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Wipf, David, Ph.D., Indiana University, Associate
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Level 2

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Chemistry

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Civil Engineering

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Huttenstine, Marian L., Ph.D., University of North Carolina, Professor of Communication

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Communication

Level 2

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Durst, Robert W., M.F.A., University of Alabama, Associate Professor of Communication

Flick, Harry Albert, II, Ph.D., Southern Illinois University, Professor of Communication

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Goodman, Mark, Ph.D., University of Missouri at Columbia, Associate Professor of Communication

Bainescu, Ioana, Ph.D., Polytechnic University, New York, Associate Professor of Computer Science

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Huddleston, David H., Ph.D., University of Tennessee, Associate Professor of Civil Engineering
Janus, J. Mark, Ph.D., Mississippi State University, Associate Professor of Aerospace Engineering

King, Roger L., Ph.D., University of Wales, Professor of Electrical and Computer Engineering

Lacy, Thomas E., Ph.D., Georgia Institute of Technology, Assistant Professor of Aerospace Engineering

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Mohanraj, Rajendran, Ph.D., Georgia Institute of Technology, Assistant Research Professor of Computational Engineering

Moorhead, Robert J., Ph.D., North Carolina State University, Professor of Electrical and Computer Engineering

Newman III, James C., Ph.D., Virginia Polytechnic Institute and State University, Associate Professor of Aerospace Engineering

Novotny, Mark A., Ph.D., Stanford University, Professor and Department Head of Physics and Astronomy, Director, ERC Center for Computational Sciences

Oppenheimer, Seth F., Ph.D., University of Texas at Austin, Associate Professor of Mathematics

Reese, Donna S., Ph.D., Texas A&M University, Associate Professor of Computer Science

Sheng, Chunhua, Ph.D., Mississippi State University, Associate Research Professor of Computational Engineering

Soni, Bharat K., Ph.D., University of Texas, Arlington, Adjunct Professor of Computational Engineering

Thompson, David S., Ph.D., Iowa State University, Associate Professor of Aerospace Engineering

Thompson, Joe F., Ph.D., Georgia Institute of Technology, Giles Distinguished Professor of Aerospace Engineering

Tong, Xiao-Ling, Ph.D., University of Delaware, Assistant Professor of Computational Engineering

Trotter, J. Donald, Ph.D., University of Texas, Professor of Electrical and Computer Engineering

Wu, Junxiao, Ph.D., Georgia Institute of Technology, Assistant Research Professor of Computational Engineering

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Level 2

Chen, Jen Ping, Ph.D., Mississippi State University, Associate Research Professor of Computational Engineering

Haupt, Tomasz A., Institute of Nuclear Physics (Krakow, Poland), Associate Research Professor of Computational Engineering

Luke, Edward A., Ph.D., Mississippi State University, Assistant Professor of Computational Engineering

O’Hara, Charles G., Ph.D., University of Mississippi, Associate Research Professor of Computational Engineering

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Computer Science and Engineering

Level 1

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Baca, Julie A., Ph.D, Mississippi State University, Adjunct Assistant Professor of Computer Science and Engineering

Banicescu, Ioana, Ph.D., Polytechnic University, Associate Professor of Computer Science and Engineering

Boggess, Julian E., III, Ph.D., University of Illinois, Associate Professor of Computer Science and Engineering

Breshears, Clay Patrick, Ph.D., University of Tennessee, Research Scientist, SPP Tools Lead, Waterways Experiment Station
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Carver, Jeffrey C., Ph.D., University of Maryland, Assistant Professor of Computer Science and Engineering

Dampier, David A., Ph.D., Naval Postgraduate School, Assistant Professor of Computer Science and Engineering

Dandass, Yoginder, Ph.D., Mississippi State University, Assistant Professor of Computer Science and Engineering

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Hansen, Eric, Ph.D., University of Massachusetts, Associate Professor of Computer Science and Engineering

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Wright, Margaret B., Ph.D., Mississippi State University, Adjunct Assistant Professor of Computer Science and Engineering

Level 2

Bennett, Warren R., Jr., Ph.D., Mississippi State University, Adjunct Assistant Professor of Computer Science and Engineering

Butler, Cary D., Ph.D., Texas A&M University, Adjunct Assistant Professor of Computer Science and Engineering

Counseling, Educational Psychology, and Special Education

Level 1

Arnault, Lynne S., Ed.D., Memphis State University, Professor of Counseling, Educational Psychology and Special Education

Cavenaugh, Brenda S., Ph.D., Mississippi State University, Research Director and Research Scientist of Rehabilitation Research and Training Center on Blindness and Low Vision

Coffey, Kenneth, Ed.D., University of Alabama, Professor of Counseling, Educational Psychology and Special Education

Devlin, Sandy D., Ed.D., University of Alabama, Professor of Counseling, Educational Psychology and Special Education

Doggett, Richard A., Ph.D., University of Southern Mississippi, Assistant Professor of Counseling, Educational Psychology and Special Education

Dooley, Katherine, Ph.D., University of Alabama, Professor of Counseling, Educational Psychology and Special Education

Elder, Anastasia D., Ph.D., University of Michigan, Assistant Professor of Counseling, Educational Psychology, and Special Education

Elrod, G. Franklin, Ph.D., University of Washington, Professor of Counseling, Educational Psychology and Special Education
Hendren, Glen R., Ph.D., University of Southern Mississippi, Professor and Coordinator of Rehabilitation Programs of Counseling, Educational Psychology and Special Education

Henington, Carlen, Ph.D., Texas A & M University, Associate Professor of Counseling, Educational Psychology and Special Education

Hermann, Mary A., Ph.D., University of New Orleans, Assistant Professor of Counseling, Educational Psychology and Special Education

Hosie, Thomas W., Ph.D., State University of New York-Buffalo, Professor and Department Head of Counseling, Educational Psychology and Special Education

Kane, Harrison D., Ph.D., University of Florida, Assistant Professor of Counseling, Educational Psychology and Special Education

Looby, Eugenie J., Ph.D., University of Georgia, Professor and Intra-Departmental Accreditation Coordinator of Counseling, Educational Psychology and Special Education

Moore, J. Elton, Ed.D., Mississippi State University, Giles Distinguished Professor of Counselor Education, and Director, Rehabilitation Research and Training Center on Blindness and Low Vision

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Obringer, Stephen J., Ed.D., Mississippi State University, Professor of Counseling, Educational Psychology and Special Education

Palmer, Charles D., Ph.D., University of Arkansas, Associate Professor of Counseling, Educational Psychology and Special Education

Pike, Gary R., Ph.D., Ohio State University, Adjunct Director of Institution Research

Porter, Julia Y., Ph.D., Louisiana State University, Assistant Professor of Counseling, Educational Psychology and Special Education

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Watson, Joshua C., Ph.D., University of North Carolina at Greensboro, Assistant Professor of Counseling, Educational Psychology and Special Education

Wozny, Darren A., Ph.D., Iowa State University, Visiting Assistant Professor of Counseling, Educational Psychology and Special Education

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Boles, David, Ed.D., University of Colorado, Adjunct Professor of Counseling, Educational Psychology and Special Education and Associate Athletic Director for Student Services

Browning, Donna Carol, Ph.D., University of Tennessee, Assistant Professor of Counseling, Educational Psychology and Special Education

Callais, Mari Ann, Ed.D., Louisiana State University, Assistant Professor Counseling, Educational Psychology and Special Education

Jackson, Deborah L., Ph.D., Mississippi State University, Assistant Professor of Counseling, Educational Psychology and Special Education

Keith, Edwin, Jr., Ph.D., University of Florida, Adjunct Professor of Counseling, Educational Psychology and Special Education

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Thomas, George M., Ed.D., University of Alabama, Professor and Head of Division of Education, Meridian Campus
Curriculum and Instruction

Level 1

Brenner, Devon G., Ph.D., Michigan State University, Assistant Professor of Reading and Language Arts

Bryan, Laura D., Ph.D., Mississippi State University, Associate Professor of Curriculum and Instruction

Burroughs, Charlotte D., Ph.D., Mississippi State University, Associate Professor of Curriculum and Instruction

Coats, Linda T., Ph.D., Mississippi State University, Associate Professor, Graduate Coordinator, and Interim Department Head of Curriculum and Instruction

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Jayroe, Teresa B., Ph.D., Mississippi State University, Assistant Professor of Curriculum and Instruction

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Verhoek-Miller, Nancy A., Ph.D., Texas A&M University, Professor of Curriculum and Instruction

Xu, Jianzhong, Ed.D., Columbia University, Associate Professor of Curriculum and Instruction

Level 2

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Brocato, Kay, Ph.D., Mississippi State University, Assistant Professor of Curriculum and Instruction

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Davidson, L. O., Ph.D., University of Mississippi, Adjunct Professor of Curriculum and Instruction

Foster, Jesse, Ph.D., University of Alabama, Assistant Professor of Curriculum and Instruction

Franz, Dana P., Ph.D., Texas A&M University, Assistant Professor of Curriculum and Instruction

Grace, Lillian C., Ed.D., University of Mississippi, Coordinator of The Early Childhood Institute

Kurz, Terri B., Ph.D., Texas A&M University, Assistant Professor of Curriculum and Instruction

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Roberts, Lloyd Eugene, Ph.D., University of Mississippi, Adjunct Professor of Curriculum and Instruction

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Electrical and Computer Engineering

Level 1

Bruce, Jerry W., Ph.D., University of Nevada Las Vegas, Assistant Professor of Electrical and Computer Engineering

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Donohoe, J. Patrick, Ph.D., University of Mississippi, Professor of Electrical and Computer Engineering

Du, Qian (Jenny), Ph.D., University of Maryland-Baltimore County, Assistant Professor of Electrical and Computer Engineering

Follett, Randolph F., Ph.D., Mississippi State University, Assistant Professor of Electrical and Computer Engineering

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Hagler, Marion O., Ph.D., University of Texas at Austin, Professor of Electrical and Computer Engineering

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Level 2

Gao, David Wenzhong, Ph.D., Georgia Institute of Technology, Assistant Research Professor

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# English

**Level 1**

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**Creevy, Patrick J.**, Ph.D., Harvard University, Associate Professor of English

**Hagenston, Becky**, M.F.A., New Mexico State University, Assistant Professor of English

**Hargrove, Nancy D.**, Ph.D., University of South Carolina, Giles Distinguished Professor of English

**Lyons, Richard**, Ph.D., University of Houston, Associate Professor of English

**Marsh, Kelly**, Ph.D., The Pennsylvania State University, Associate Professor of English

**Murray, Margaret**, Ph.D., Cornell University, Associate Professor of English

**Myers, Gary**, Ph.D., University of Houston, Professor of English

**Patteson, Richard F.**, Ph.D., University of Pennsylvania, Professor of English and Director of Graduate Studies

**Raymond, Richard**, Ph.D., Miami University, Professor and Graduate Coordinator of English

**Wolf, Richard B.**, Ph.D., University of Chicago, Associate Professor of English

**Level 2**

**Bonney, William W.**, Ph.D., University of Pennsylvania, Professor of English

**Dodds, Lara A.**, Ph.D., Brown University, Assistant Professor of English

**Johnson, Holly**, Ph.D., University of North Carolina at Chapel Hill, Assistant Professor of English

**Little, Matthew W.**, Ph.D., University of Chicago, Associate Professor of English

**O’Gorman, Farrell**, Ph.D., University of North Carolina at Chapel Hill, Assistant Professor of English

**Vice, Bradley**, Ph.D., University of Cincinnati, Assistant Professor of English

**West, Robert M.**, Ph.D., University of North Carolina at Chapel Hill, Assistant Professor of English

# Entomology and Plant Pathology

**Level 1**

**Baird, Richard E.**, Ph.D., University of Tennessee, Professor of Plant Pathology

**Baker, Gerald T.**, Ph.D., Oregon State University, Professor of Entomology

**Brown, Richard L.**, Ph.D., Cornell University, Professor of Entomology

**Caprio, Michael A.**, Ph.D., University of Hawaii, Professor of Entomology

**Chambers, Howard W.**, Ph.D., University of California, Professor of Entomology

**Collison, Clarence H.**, Ph.D., Michigan State University, Head of Department of Entomology and Plant Pathology

**Goddard, Jerome**, Ph.D., Mississippi State University, Adjunct Assistant Professor of Entomology

**Harris, F. Aubrey**, Ph.D., Mississippi State University, Entomologist at Delta Research and Extension Center

**Henn, R. Alan**, Ph.D., University of Florida, Associate Extension Professor of Plant Pathology

**Hodges, Ronald W.**, Ph.D., Cornell University, Adjunct Professor of Entomology and Retire Taxonomic Specialist, U.S. National Museum, USDA Systematic Entomology Laboratory

**Ingram, David M.**, Ph.D., Washington State University, Associate Extension Professor of Plant Pathology

**Lawrence, Gary W.**, Ph.D., Louisiana State University, Associate Professor of Plant Pathology

**Layton, M. Blake, Jr.**, Ph.D., Louisiana State University, Extension Professor of Entomology

**Ma, Peter W. K.**, Ph.D., Cornell University, Assistant Professor of Entomology
Nebeker, Thomas E., Ph.D., Oregon State University, Professor of Entomology
Parker, C. Donald, Ph.D., Mississippi State University, Assistant Research/Extension Professor
Peterson, John, Ph.D., Iowa State University, Adjunct Assistant Professor of Entomology and Plant Pathology and Research Entomologist, USDA Forest Service, Starkville
Pitre, Henry N., Jr., Ph.D., University of Wisconsin, Professor of Entomology and Plant Pathology
Reed, Jack T., Ph.D., University of Arkansas, Research Professor of Entomology
Sabanadzovic, Sead, Ph.D., University of Bari, Associate Professor of Entomology and Plant Pathology
Schneider, John C., Ph.D., Princeton University, Professor and Entomologist of Entomology
Shelton, Thomas, Ph.D., Auburn University, Adjunct Assistant Professor of Entomology and Plant Pathology and Research Entomologist, USDA Forest Service, Starkville
Williams, Michael R., Ph.D., Auburn University, Extension Professor of Entomology
Level 2
Abel, Craig A., Ph.D., Iowa State University, Adjunct Assistant Professor of Entomology and Plant Pathology
Adamczyk, John J., Ph.D., Louisiana State University, Adjunct Assistant Professor of Entomology, Research Entomologist, USDA-ARS, Stoneville
Catchot, Angus, Ph.D., Mississippi State University, Assistant Extension Professor of Entomology and Plant Pathology
Claflin, Larry E., Ph.D., Kansas State University, Adjunct Professor of Entomology
Gore, Jeffrey, Ph.D., Louisiana State University, Adjunct Assistant Professor of Entomology and Plant Pathology, USDA-ARS
Held, David W., Ph.D., University of Kentucky, Assistant Professor of Extension Entomology
Lu, Shi-En, Ph.D., Washington State University, Assistant Professor of Entomology and Plant Pathology
Mulrooney, Joseph E., Ph.D., Mississippi State University, Adjunct Assistant Professor of Entomology and Research Entomologist, USDA-ARS
Musser, Fred R., Ph.D., Cornell University, Assistant Professor of Entomology and Plant Pathology
Sciumbato, Gabriel L., Ph.D., Louisiana State University, Research Professor of Plant Pathology, Delta Research and Extension Center, Stoneville
Smith, Barbara, Ph.D., Louisiana State University, Adjunct Assistant Professor of Entomology, Research Plant Pathologist, USDA/ARS, Poplarville
Snodgrass, Gordon L., Ph.D., Mississippi State University, Adjunct Assistant Professor of Entomology and Research Entomologist, USDA-ARS, Stoneville
Solis, M. Alma, Ph.D., University of Maryland at College Park, Adjunct Assistant Professor of Entomology
Stewart, Scott D., Ph.D. Auburn University, Adjunct Assistant Professor of Entomology
Sullivan Brian T., Ph.D., Louisiana State University, Adjunct Assistant Professor of Entomology, Research Entomologist, USDA Forest Service, Starkville
Summerville, Keith S., Ph.D., Miami University, Adjunct Assistant Professor of Entomology and Plant Pathology
Tomaso-Peterson, Maria, Ph.D., Mississippi State University, Assistant Professor of Entomology and Plant Pathology
Vogt, James T., Ph.D., Auburn University, Adjunct Assistant Professor of Entomology
Wagner, Terence L., Ph.D., University of Maine, Adjunct Associate Professor of Entomology, Research Entomologist, USDA Forest Service, Starkville
Weeks, Ronald D., Jr., Ph.D., Texas A & M University, Adjunct Assistant Professor of Entomology, Entomologist, USDA-APHIS, Gulfport
Willers, Jeffrey Lee, Ph.D., Mississippi State University, Adjunct Assistant Professor of Entomology and Research Entomologist, USDA-ARS
Windham, Gary L., Ph.D., North Carolina State University, Adjunct Assistant Professor of Plant Pathology, USDA/ARS

Zhu, Yu Cheng, Ph.D., Kansas State University, Adjunct Research Entomologist, USDA/ARS, Stoneville

Finance and Economics

Level 1
Blair, Benjamin F., Ph.D., University of Florida, Associate Professor of Economics

Campbell, Charles, Ph.D., University of Tennessee, Professor of Economics

Duett, Edwin H., Ph.D., The University of Georgia, Professor of Finance and Chair of Risk Management and Insurance

Grimes, Paul W., Ph.D., Oklahoma State University, Professor of Economics and Head of Department of Finance and Economics

Kelly, Gary Wayne, Ph.D., University of Alabama, Associate Professor of Finance

Kohers, Theodor, Ph.D., University of Oregon, Professor of Finance and International Business

Liano, Kartono, Ph.D., The University of Alabama, Professor of Finance

Millea, Meghan J., Ph.D., University of Nebraska-Lincoln, Associate Professor of Economics

Rogers, Kevin E., Ph.D., University of Georgia, Associate Professor of Economics

White, Larry R., Ph.D., University of Georgia, Associate Professor of Finance and Director of Banking Excellence Program

Level 2
Campbell, Randall C., Ph.D., Louisiana State University, Assistant Professor of Economics

Gilmer, R. H., Jr., Ph.D., University of Illinois, Associate Professor of Finance

Hardin, William G. III., Ph.D., Georgia State University, Associate Professor of Real Estate and Robert W. Warren Chair of Real Estate

Highfield, Michael J., Ph.D., University of Kentucky, Assistant Professor of Finance

Kim, Doh-Khul, Ph.D., University of Georgia, Assistant Professor of Finance and Economics at Meridian Campus

Luccasen, R. Andrew, III, Ph.D., Texas A&M University, Adjunct Instructor of Economics

Nagel, Gregory L., Ph.D., Florida State University, Assistant Professor of Finance

Rezek, Jon, Ph.D., University of Nebraska-Lincoln, Assistant Professor of Economics

Thomas, M. Kathleen, Ph.D., Georgia State University, Assistant Professor of Economics

Food Science, Nutrition, and Health Promotion

Level 1
Althen, Thomas G., Ph.D., University of Maryland, Professor of Animal and Dairy Science

Byrd, Sylvia, Ph.D., Mississippi State University, Assistant Professor of Food Science, Nutrition, and Health Promotion

Chen, T.C., Ph.D., University of Massachusetts, Courtesy Professor of Poultry Science and Professor of Food Science and Technology

Chen, Yo-Shen, Ph.D., University of Wisconsin, Assistant Professor of Food Science and Technology

Coggins, Patti C., Ph.D., Mississippi State University, Assistant Professor of Food Science and Technology

Haque, Z.U., Ph.D., Kyoto University, Professor of Food Science, Nutrition, and Health Promotion

Marshall, Douglas L., Ph.D., University of Florida, Professor of Food Science and Technology

Mikel, William Benjy, Ph.D., Mississippi State University, Professor and Department Head of Food Science, Nutrition, and Health Promotion
Silva, J. L., Ph.D., Mississippi State University, Professor, Researcher of Food Science and Technology

Thaxton, Yvonner, Ph.D., Auburn University, Professor of Poultry Science

White, Charles H., Ph.D., University of Missouri, Professor and Department Head of Food Science and Technology

Level 2

Andrews, Linda S., Ph.D., Louisiana State University, Assistant Food Scientist, and Extension Specialist at Experimental Seafood Processing Laboratory

Bal’a, Farid, Ph.D., American University of Beirut, Adjunct Research Microbiologist, USDA-ARS-SRL

DePaola, Angelo, Ph.D., University of Florida, Adjunct Professor of Food Science and Technology

Fountain, Brent, Ph.D., Mississippi State University, Assistant Professor of Food Science, Nutrition and Health Promotion

Hood, Anna F., Ph.D., Mississippi State University, Extension Professor of Food Science, Nutrition, and Health Promotion

Schilling, M. Wes, Ph.D., Virginia Polytechnic Institute and State University, Associate Professor of Forest Science, Nutrition, and Health Promotion

Tennyson, John M., Ph.D., Mississippi State University, Adjunct Associate Professor of Food Science and Technology

Jordan, Jack, Ph.D., University of Virginia, Professor of Foreign Languages

Lestrange, Patricia M., Ph.D., University of Alabama, Associate Professor of Foreign Languages

Potter, Edward T., Ph.D., University of North Carolina at Chapel Hill, Assistant Professor of Foreign Languages

Rice, Michael, Ph.D., University of Cincinnati, Assistant Professor of Foreign Languages

Robbins-Herring, Kittye D., Ph.D., University of Kentucky, Associate Professor of Foreign Languages

Forest Products

Level 1

Amburges, Terry L., Ph.D., North Carolina State University, Professor of Forest Products

Barnes, H.M., Ph.D., State University of New York, Professor of Forest Products

Borazjani, Abdolhamid, Ph.D., Mississippi State University, Professor of Forest Products

Bullard, Steven H., Ph.D., Virginia Polytechnic Institute and State University, Adjunct Professor of Forest Products

Diehl, Susan V., Ph.D., Mississippi State University, Associate Professor of Forest Products

Hunter, Steve L., Ph.D., Auburn University, Associate Professor of Forest Products

Ingram, Leonard L., Ph.D., University of Southern Mississippi, Professor of Forest Products

Kim, Moon G., Ph.D., Kansas State University, Professor of Forest Products

Leightley, Liam E., Ph.D., University of Portsmouth, United Kingdom, Professor and Department Head of Forest Products

Nicholas, Darrel D., Ph.D., North Carolina State University, Professor of Forest Products

Schultz, Tor P., Ph.D., North Carolina State University, Professor of Forest Products and Adjunct Associate Professor of Chemistry

Foreign Languages

Level 1

Wolverton, Robert E., Ph.D., University of North Carolina, Professor of Foreign Languages

Level 2

Emplaincourt, Edmond, Ph.D., University of Alabama, Professor and Department Head of Foreign Languages

Harland, Robert J. E., Ph.D. University of Wales, Assistant Professor of Foreign Languages
Seale, Roy D., Ph.D., Clemson University, Professor of Forest Products and Adjunct Assistant Professor of Agricultural Economics

Steele, Philip H., Ph.D., Mississippi State University, Professor of Forest Products

Level 2

Boyd, Gwendolyn D., Ph.D., Mississippi State University, Assistant Professor, Adjunct Professor of Forest Products

Prewitt, Myrtle Lynn, Ph.D., Mississippi State University, Assistant Research Professor of Forest Products

Shi, Sheldon Q., Ph.D., Michigan Technological University, Assistant Professor of Forest Products

Shmulsky, Rubin, Ph.D., Mississippi State University, Associate Professor of Forest Products

Zhang, Jilei., Ph.D., Purdue University, Assistant Professor of Forest Products

Forestry

Level 1

Belli, Keith L., Ph.D., University of Minnesota, Professor of Forestry and Associate Dean of the College of Forest Resources

Bonner, F. T., D.F., Duke University, Adjunct Professor of Forestry

Bullard, Steven H., Ph.D., Virginia Polytechnic Institute and State University, Adjunct Professor and Director, Institute of Furniture Manufacturing and Management

Evans, David L., Ph.D., Louisiana State University, Professor of Forestry

Ezell, Andrew L., Ph.D., Louisiana State University, Professor of Forestry

Foil, R. Rodney, Ph.D., Duke University, Professor of Forestry and Vice President Emeritus of Agriculture, Forestry and Veterinary Medicine

Friend, Alexander L., Ph.D., University of Washington, Adjunct Professor of Forestry

Grace, Laura, Ph.D., Swedish University of Agricultural Sciences, Associate Professor of Forestry

Grado, Stephen C., Ph.D., Pennsylvania State University, Professor of Forestry

Hodges, John D., Ph.D., University of Washington, Adjunct Professor of Forestry

Karr, Bob L., Ph.D., Texas A&M University, Interim Dean of the College of Forest Resources and Interim Director of Forest and Wildlife Research Center

Kubiske, Mark, E., Ph.D., Pennsylvania State University, Adjunct Associate Professor of Forestry

Land, S.B., Jr., Ph.D., North Carolina State University, Professor of Forestry

Matney, Thomas G., Ph.D., Virginia Polytechnic Institute and State University, Professor of Forestry

Munn, Ian A., Ph.D., North Carolina State University, Professor of Forestry

Parker, Robert C., Ph.D., University of Georgia, Associate Professor of Forestry

Roberts, Scott, Ph.D., Utah State University, Associate Professor of Forestry

Schoenholtz, Stephen H., Ph.D., Virginia Polytechnic and State University, Adjunct Professor of Forestry

Schultz, Emily B., Ph.D., North Carolina State University, Associate Professor of Forestry

Shepard, James P., Ph.D., Mississippi State University, Professor and Head of Forestry

Stuart, William B., Ph.D., Virginia Polytechnic Institute and State University, Professor of Forestry

Level 2

Connor, Kristina F., Ph.D., Utah State University, Adjunct Associate Professor of Forestry

Daniels, Robert A., Ph.D., Michigan State University, Extension Professor of Forestry

Dean, Thomas J., Ph.D., Utah State University, Adjunct Associate Professor of Forestry

Duzan, Howard W., Jr., Ph.D., North Carolina State University, Adjunct Associate Professor of Forestry
Gardiner, Emile S., Ph.D., Mississippi State University, Adjunct Assistant Professor of Forestry

Grala, Robert K., Ph.D., Iowa State University, Assistant Professor of Forestry

Grebner, Donald L., Ph.D., Virginia Polytechnic Institute and State University, Associate Professor of Forestry

Londo, Andrew J., Ph.D., Michigan Technological University, Associate Extension/Research Professor of Forestry

Maiers, Richard P., Ph.D., Iowa State University, Assistant Professor of Forestry

Meadows, James Steven, Ph.D., Mississippi State University, Adjunct Assistant Professor of Forestry

Sun, Changyou, Ph.D., Auburn University, Assistant Professor of Forestry

Vozzo, John A., Ph.D., George Washington University, Adjunct Associate Professor of Forestry

Yuceer, Mehmet Cetin, Ph.D., Mississippi State University, Assistant Research Professor

Geosciences

Level 1

Binkley, Mark S., Ph.D., Indiana State University, Professor of Geography

Dewey, Chris P., Ph.D., University of Newfoundland, Associate Professor of Geosciences and Graduate Coordinator

May, James H., Ph.D., Texas A&M University, Adjunct Research Geologist of Geosciences

Myroie, J.E., Ph.D., Rensselaer Polytechnic Institute, Professor of Geology

Schmitz, Darrel W., Ph.D., Texas A&M University, Professor of Geology and Department Head

Wax, Charles L., Ph.D., Louisiana State University, Professor of Geography and State Climatologist for Mississippi

Level 2

Brown, Michael E., Ph.D., University of North Carolina-Chapel Hill, Assistant Professor of Geography

Cooke, William H., III, Ph.D., Mississippi State University, Assistant Professor of Geosciences

Croft, Paul, Ph.D., Rutgers University, Adjunct Professor of Geography

Fitzpatrick, Patrick J., Ph.D., Colorado State University, Adjunct Associate Research Professor, MSU ERC at Stennis Space Center

Kirkland, Brenda L., Ph.D., Louisiana State University, Assistant Professor of Geology

Lynch, F. Leo, Ph.D., University of Texas at Austin, Associate Professor of Geology

Mack, Taylor E., Ph.D., Louisiana State University, Assistant Professor of Geography

Mostovoi, Gueorgui V., Ph.D., Moscow State University, Adjunct Associate Research Professor, MSU ERC at Stennis Space Center

O’Hara, Charles G., Ph.D., University of Mississippi, Adjunct Associate Research Professor in the Remote Sensing Technology Center

Rodgers, John C., III, Ph.D., University of Georgia, Assistant Professor of Geography

Samson, Scott A., Ph.D., University of Nebraska-Lincoln, Adjunct Associate Extension Professor and GIS Extension Specialist

Simms, Janet E., Ph.D., Texas A&M University, Adjunct Research Geophysicist, U.S. Army Engineer Waterways Experiment Station, Vicksburg

Veeramony, Jayaram, Ph.D., University of Delaware, Adjunct Assistant Research Professor, MSU ERC at Stennis Space Center

History

Level 1

Ballard, Michael B., Ph.D., Mississippi State University, Coordinator of the Congressional and Political Research Center

Crowell, Lorenzo M., Ph.D., Duke University, Associate Professor of History
Human Sciences

Level 1

Davis, Louise E., Ph.D., Mississippi State University, Extension Professor of Child and Family Development

Pike, Lynn B., Ph.D., Ohio State University, Professor of Human Sciences

Reeves, Patsilu S., Ph.D., Mississippi State University, Associate Extension Professor of Family Life and Public Policy

Shaffett, Bobbie D., Ph.D., Louisiana State University, Associate Extension Professor of Family Resource Management

Taylor, Jan C., Ph.D., Texas Woman's University, Professor of Human Sciences

Worthy, Sheri L., Ph.D., Texas Tech University, Assistant Professor of Human Sciences

Level 2

Cheek, Wanda, Ph.D., Ohio State University, Assistant Professor of Human Sciences

Duncan, Beth, Ph.D., Mississippi State University, Extension Professor, Entrepreneurship

Howell, Beverly R., Ph.D., Mississippi State University, State Program Leader, Family and Consumer Education

Miller, Phyllis B., Ph.D., University of Tennessee, Assistant Professor of Human Sciences

Industrial Engineering

Level 1

Bowden, Royce, Ph.D., Mississippi State University, Professor and Head of Industrial Engineering

Bullington, Stanley F., P.E., Ph.D., Auburn University, Professor of and Graduate Coordinator of Industrial Engineering

Duffy, Vincent G., Ph.D., Purdue University, Associate Professor of Industrial Engineering
Eksioglu, Burak, Ph.D., University of Florida, Assistant Professor of Industrial Engineering

Greenwood, Allen G., P.E., Ph.D., Virginia Polytechnic Institute, Professor of Industrial Engineering

Jin, Mingzhou, Ph.D., Lehigh University, Assistant Professor of Industrial Engineering

Smyer, William N., Ph.D., Auburn University, Associate Professor of Industrial Engineering

Usher, John M., P.E., Ph.D., Louisiana State University, Professor of Industrial Engineering

Level 2

McGilberrry, Joseph H., Sr., Ph.D., Texas A&M University, Assistant Professor of Industrial Engineering and Director, Mississippi Cooperative Extension Service

Durrington, Vance A., Ed.D., Texas Tech University, Assistant Professor of Instructional Systems, Leadership, and Workforce Development

Forde, Connie, Ph.D., University of Mississippi, Professor of Instructional Systems, Leadership, and Workforce Development

Havard, Byron C., Ph.D., Georgia State University, Assistant Professor of Instructional Systems, Leadership, and Workforce Development

Johnson, W. C., Ed.D., The University of Minnesota, Associate Professor of Instructional Systems, Leadership, and Workforce Development

Okojie, Mabel C.P.O., Ph.D., Ohio State University, Assistant Professor of Instructional Systems, Leadership, and Workforce Development

Olinzock, Anthony A., Ed.D., University of Pittsburgh, Professor and Department Head of Instructional Systems, Leadership, and Workforce Development

Stumpf, Arthur D., Ph.D., University of Missouri-Columbia, Assistant Professor of Instructional Systems, Leadership, and Workforce Development

Wiseman, William M., Ph.D., Mississippi State University, Director of the John C. Stennis Institute of Government and Professor of Political Science

Yu, Chien, Ph.D., Ohio State University, Assistant Professor of Instructional Systems, Leadership, and Workforce Development

Level 2

Adams, Joe, Ph.D., Vanderbilt University, Adjunct Research Associate of John C. Stennis Institute of Government

Abraham, Patti, Ed.D., Mississippi State University, Director and Research Professor, Research and Curriculum Unit

Adams, James H., Ed.D., Oklahoma State University, Assistant Professor Instructional Systems, Leadership, and Workforce Development

Cornelious, Linda, Ph.D., Florida State University, Professor of Instructional Systems, Leadership, and Workforce Development

Davis, James E., Ed.D., Mississippi State University, Assistant Professor of Instructional Systems, Leadership, and Workforce Development

Du, Jianxia, Ph.D., University of Illinois at Urbana-Champaign, Assistant Professor of Instructional Systems, Leadership, and Workforce Development
Alexander, Mary L., Ph.D., Mississippi State University, Assistant Professor of Instructional Systems, Leadership, and Workforce Development

Beaulieu, Lionel J., Ph.D., Purdue University, Adjunct Director and Professor of Southern Rural Development Center

Benton, Kim S., Ed.D., Mississippi State University, Principal of Oakland Heights Elementary School in Meridian, MS

Blendinger, Jack G., Ed.D., University of North Colorado, Professor of Educational Leadership

Bowen, Marilyn D., Ph.D., Mississippi State University, Adjunct Professional Development Specialist of Instructional Systems, Leadership, and Workforce Development

Brandenburg, Teri L., Ph.D., Utah State University, Assistant Professor of Instructional Systems, Leadership, and Workforce Development

Capella, Michele E., Ph.D., University of Arkansas, Assistant Research Professor of Rehabilitation Research and Training Center on Blindness and Low Vision

Chance, Charles W., Ph.D., The University of Texas at Austin, Adjunct President of Northeast Mississippi Community College

Cottrell, Stephen, Ed.D., Mississippi State University, Adjunct Assistant Professor of Instructional Systems, Leadership and Workforce Development

Davis, Melvin, Ph.D., University of South Carolina, Adjunct Associate Vice President for Academic Affairs at Alcorn State University

Dilworth, Reuben E., Ed.D., University of Southern Mississippi, Director, Center for Educational Partnerships

Garner, Howell C., Ph.D., University of Southern Mississippi, Adjunct President of Copiah-Lincoln Community College

Hales, Brent D., Ph.D., Iowa State University, Adjunct Professor of Instructional Systems, Leadership, and Workforce Development

Hollingshed, Modeane, Ph.D., Mississippi State University, Adjunct Faculty, Technology Instruction Specialist

Lindley, Clyde A., Ed.D, Mississippi State University, Adjunct Professor of Instructional Systems, Leadership, and Workforce Development

Morgan, Margaret C., Ph.D., University of Mississippi, Associate Research Professor of Instructional Systems, Leadership and Workforce Development

Osby, Willie P., Ed.D., Mississippi State University, Assistant Principal of Northeast Elementary School in Meridian, Miss.

Perkins, T. Fred, Ed.D. Mississippi State University, Adjunct Professor of Instructional Systems, Leadership, and Workforce Development

Rozell, Billie R., DSM, University of Alabama at Birmingham, Adjunct Associate Professor of Instructional Systems, Leadership, and Workforce Development

Seiler, David, Ph.D., Mississippi State University, Instructor of Instructional Systems, Leadership, and Workforce Development

Smith, Ingrad, Ph.D., Jackson State University, Assistant Professor of Instructional Systems, Leadership, and Workforce Development

Stonecypher, Wayne, J.D., Mississippi College School of Law, Adjunct Associate Executive Director for Programs for MS State Board for Community and Junior Colleges

Wyatt, John, Ph.D., Southampton Institute, Assistant Professor of Instructional Systems, Leadership, and Workforce Development

Kinesiology

Level 1

Abadie, Ben, Ed.D., University of Southern Mississippi, Professor of Kinesiology

Chromiak, Joseph A., Ph.D., Auburn University, Associate Professor and Graduate Coordinator of Kinesiology

Level 2

Foxworth, K. Randell, Mississippi State University, Assistant Professor of Kinesiology

Hoyt, George L., Ph.D., University of Arkansas, Assistant Professor of Kinesiology
Lamberth, John, Ph.D., University of Southern Mississippi, Associate Professor of Kinesiology

Ridpath, B. David, Ed.D., West Virginia University, Assistant Professor of Kinesiology

Rukavina, Paul B., Ph.D., Louisiana State University, Assistant Professor of Kinesiology

Landscape Architecture
Level 1

Cook, G. Glenn, M.U.R.P, University of Mississippi, Associate Professor of Landscape Architecture

Man, Cameron R. J., M.L.A., University of California-Berkeley, Professor of Landscape Architecture

Melby, Philip O., M.L.A., Louisiana State University, Professor of Landscape Architecture

Wilkerson, Wayne G., M.L.A., Louisiana State University, Assistant Professor of Landscape Architecture

Level 2

Brzuszek, Robert F., M.L.A., Louisiana State University, Assistant Professor of Landscape Architecture

Mulley, Susan J., M.L.A., University of Guelph, Assistant Professor and Graduate Coordinator of Landscape Architecture

Walker, Jason B., M.L.A., Virginia Polytechnic Institute and State University, Assistant Professor of Landscape Architecture

Management and Information Systems
Level 1

Arnett, Kirk P., D.B.A., Mississippi State University, Professor of Information Systems

Barnett, Timothy R., D.B.A., Mississippi State University, Associate Professor of Management

Chrisman, James J., Ph.D., University of Georgia, Professor of Management

Cochran, Daniel S., Ph.D., University of Arkansas, Professor of Management

Long, Rebecca, Ph.D., Louisiana State University, Associate Professor of Management

Pearson, Allison W., Ph.D., Auburn University, Professor of Management

Pearson, Rodney A., D.B.A., Harvard University, Professor of Information Systems

Shim, Jung P., Ph.D., University of Nebraska-Lincoln, Professor and Doctoral Coordinator of Information Systems

Smith, Garry D., D.B.A., Louisiana Tech University, Professor of Management, Head of the Department of Management and Information Systems

Spencer, Barbara A., Ph.D., Virginia Polytechnic Institute and State University, Professor of Management and Director of Graduate Studies in Business

Taylor, G. Stephen, Ph.D., Virginia Polytechnic Institute and State University, Professor of Management

Warkentin, Merrill, Ph.D., University of Nebraska-Lincoln, Professor of Information Systems

White, Michael C., Ph.D., University of Georgia, Professor of Management

Level 2

Kellermanns, Franz W., Ph.D., University of Connecticut, Assistant Professor of Management

Lehman, Carol M., Ed.D, University of Arkansas, Professor of Management

Shaw, John C., Ph.D., University of Florida, Assistant Professor of Management

Templeton, Gary F., Ph.D., Auburn University, Assistant Professor of Information Systems

Vance, David A., Ph.D., Southern Illinois University-Carbondale, Assistant Professor of Information Systems
Marketing, Quantitative Analysis, and Business Law

Level 1

Capella, Louis M., D.B.A., University of Kentucky, Professor of Marketing and Associate Dean

Engelland, Brian, D.B.A., Southern Illinois University, Associate Professor of Marketing and Department Head of Marketing, Quantitative Analysis and Business Law

LeMay, Stephen A., D.B.A., University of Tennessee, Professor of Marketing

Taylor, Ronald D., Ph.D., University of North Texas, Professor of Marketing

Webster, Cynthia, Ph.D., University of North Texas, Professor of Marketing

Level 2

Bryant, James August, J.D., University of Mississippi, Professor of Business Law

Chakrabarty, Subra, D.B.A., Louisiana Tech University, Assistant Professor of Marketing

Eshee, William Denver, Jr., J.D., University of Mississippi, Professor of Business Law

Liddell, Pearson, Jr., J.D., Howard University School of Law, Assistant Professor of Business Law

Ponder-Lueg, Nicole, Ph.D., University of Alabama, Assistant Professor of Marketing

Lueg, Jason E., Ph.D., University of Alabama, Assistant Professor of Marketing

Moore, Melissa, Ph.D., University of Connecticut, Associate Professor of Marketing

Moore, Robert S., Ph.D., University of Connecticut, Assistant Professor of Marketing

Sullivan, Joe, Ph.D., University of Alabama, Professor of Quantitative Analysis

Tahai, Alireza, Ph.D., Arizona State University, Professor of Quantitative Analysis

Mathematics and Statistics

Level 1

Aktosun, Tuncay, Ph.D., Indiana University, Professor of Mathematics

Dang, Dinh H., Ph.D., HoChiMinh City University, Professor of Mathematics

Dobson, Ted, Ph.D., Louisiana State University, Associate Professor of Mathematics

Ebanks, Bruce R., Ph.D., University of Waterloo, Professor of Mathematics

Gerard, Patrick D., Ph.D., Southern Methodist University, Professor of Experimental Statistics/Professor of Statistics

Harvill, Jane L., Ph.D., Texas A&M University, Assistant Professor of Statistics

Johnson, Corlis P., Ph.D., Emory University, Associate Professor of Mathematics, Associate Department Head

Knu0dson, Kevin P., Ph.D., Duke University, Assistant Professor of Mathematics

Miller, T. Len, Ph.D., Virginia Polytechnic Institute and State University, Professor of Mathematics

Miller, Vivien G., Ph.D., Mississippi State University, Associate Professor of Mathematics

Neumann, Michael M., Ph.D., University of Saarbrucken, West Germany, Professor of Mathematics and Interim Department Head of Mathematics and Statistics

Oppenheimer, Seth F., Ph.D., University of Texas at Austin, Professor of Mathematics

Pearson, J. Michael, Ph.D., University of Texas at Austin, Adjunct Associate Professor of Mathematics

Qian, Chuanxi, Ph.D., University of Rhode Island, Professor of Mathematics

Razzaghi, Mohsen, Ph.D., University of Sussex, England, Professor of Mathematics

Shivaji, Ratnasingham, Ph.D., Heriot-Watt University, Edinburgh, Scotland, Professor of Mathematics
Smith, Robert C., Ph.D., University of Arkansas, Associate Professor of Mathematics
Xu, Xiangsheng, Ph.D., University of Texas at Austin, Professor of Mathematics

Level 2

Burg, Clarence O., Ph.D., Mississippi State University, Assistant Research Professor of Computational Engineering
DuBien, Janice, Ph.D., Oklahoma State University, Associate Professor of Statistics
Fabel, Paul, Ph.D., University of Texas at Austin, Assistant Professor of Mathematics
Fahey, Mark R., Ph.D., University of Kentucky, Adjunct Assistant Professor of Mathematics, Waterway Experiment Station
Jonkman, Jeffrey N., Ph.D., North Carolina State University, Assistant Professor of Statistics
Lim, Hyeona, Ph.D., Michigan State University, Assistant Professor of Mathematics
Lu, QiQi, Ph.D., The University of Georgia, Assistant Professor of Statistics
Stocker, Russell, IV, Ph.D., University of South Carolina, Assistant Professor of Statistics
Wu, Dongfeng, Ph.D., University of California at Santa Barbara, Assistant Professor of Statistics

Mechanical Engineering

Level 1

Adebiyi, George A., Ph.D., University of Manchester, Professor of Mechanical Engineering
Altenkirch, Robert A., Ph.D., Purdue University, Adjunct Professor of Mechanical Engineering
Bammann, Douglas J., Ph.D., University of Illinois, Adjunct Faculty, Principal Member of Technical Staff at Sandia National Laboratories
Berry, John T., Ph.D., University of Birmingham, England, Edward P. Coleman Professions Engineering Professor of Mechanical Engineering
Cain, Bruce L., Ph.D., University of Illinois, Professor of Mechanical Engineering
Chamra, Louay M., Ph.D., Pennsylvania State University, Associate Professor of Mechanical Engineering
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Daniewicz, Steven R., Ph.D., The Ohio State University, Associate Professor of Mechanical Engineering
Felicelli, Sergio D., Ph.D., The University of Arizona, Associate Professor of Mechanical Engineering
Hodge, B. Keith, P.E., Ph.D., University of Alabama, Professor of Mechanical Engineering
Horstemeyer, Mark F., Ph.D., Georgia Institute of Technology, Professor of Mechanical Engineering
Hudson, Susan T., Ph.D., The University of Alabama in Huntsville, Adjunct Assistant Professor of Mechanical Engineering
Li, Wen L., Ph.D., University of Kentucky, Associate Professor of Mechanical Engineering
Luck, Rogelio, Ph.D., Pennsylvania State University, Associate Professor of Mechanical Engineering
Mago, Pedro J., Ph.D., University of Florida, Assistant Professor of Mechanical Engineering
Marcum, David L., Ph.D., Purdue University, Professor of Mechanical Engineering
Papazian, John M., Ph.D., Columbia University, Adjunct Faculty, Manager, Technology Development at Northrop Grumman
Parsons, James A., Ph.D., Texas A&M University, Assistant Professor of Mechanical Engineering
Patton, Richard D., Ph.D., Stevens Institute of Technology, Assistant Professor of Mechanical Engineering
Schneider, Judith A., Ph.D., University of California, Assistant Professor of Mechanical Engineering
Steele, W. Glenn, Jr., P.E., Ph.D., North Carolina State University, Professor of Mechanical Engineering and Head of the Department of Mechanical Engineering
Taylor, Robert P., Ph.D., Mississippi State University, Adjunct Professor of Mechanical Engineering

Tejwauli, Gopal D., Ph.D., State University of New York, Adjunct Faculty; Engineer Specialist, NASA Stennis Space Center

Walters, D. Keith, Ph.D., Clemson University, Assistant Professor of Mechanical Engineering

Level 2

Field, Robert E., Ph.D., Purdue University, Adjunct Faculty; Aerospace Technologist, NASA Stennis Space Center

Norton, Olin Perry, Ph.D., California Institute of Technology, Adjunct Research Engineer II, DIAL

Wyatt, John Edward, Ph.D., Southampton Institute, Adjunct Assistant Professor of Instructional Systems, Leadership, Workforce Development

Music Education
Level 1

Brown, Michael R., Ed.D., University of Georgia, Professor and Department Head of Music Education

Level 2

Johns, Lana K., D.M., Florida State University, Associate Professor of Music Education

Smith, Linda K., M.M., Indiana University, Professor of Music Education

Philosophy and Religion
Level 1

Seger, Joe D., Th.D., Harvard University, Professor of Religion, Middle Eastern Archaeologist, Director of Cobb Institute of Archaeology

Level 2

Clifford, Michael R., Ph.D., Vanderbilt University, Associate Professor of Philosophy

Estes, Yolanda, Ph.D., University of Kentucky, Assistant Professor of Philosophy

Hardin, James W., Ph.D., University of Arizona, Assistant Professor of Religion

Holt, D. Lynn, Ph.D., Vanderbilt University, Associate Professor of Philosophy and Head of the Department of Philosophy and Religion

Jacobs, Paul F., Ph.D., Union Theological Seminary in Virginia, Professor of Religion

Mullen, Eve, Ph.D., Temple University, Assistant Professor of Religion

Physics and Astronomy
Level 1

Arnoldus, Hendrik F., Ph.D., Utrecht University, Associate Professor of Physics

Bauman, Leslie E., Ph.D., Texas A&M University, Professor of Physics and Chemistry

Clay, R. Torsten, Ph.D., University of Illinois, Assistant Professor of Physics

Dunne, James A., Ph.D., The American University, Associate Professor of Physics and Astronomy

Ermer, David, Ph.D., Washington State University, Assistant Professor of Physics

Foley, John T., Ph.D., University of Rochester, Professor of Physics

Kim, Seong-gon, Ph.D., Michigan State University, Assistant Professor of Physics

Lestrade, John Patrick, Ph.D., Rice University, Professor of Physics and Astronomy

Lindner, Jeffry S., Ph.D., Mississippi State University, Research Professor of DIAL

Ma, Wenchao, Ph.D., Vanderbilt University, Professor of Physics

Monts, David L., Ph.D., Columbia University, Professor of Physics

Mzoughi, Taha, Ph.D., University of South Carolina, Associate Professor of Physics
Novotny, Mark A., Ph.D., Stanford University, Professor and Department Head of Physics and Astronomy, Director, ERC Center for Computational Sciences

Singh, Jagdish P., Ph.D., Banaras Hindu University, Associate Director Laser Diagnostics and Senior Research Scientist, DIAL

Su, Chun Fu, Ph.D., University of New Orleans, Professor of Physics

Su, Yi, Ph.D., Wayne State University, Adjunct Assistant Professor and Assistant Research Professor, DIAL

Tao, Shiquan, D.S., Hiroshima University, Adjunct Assistant Professor and Assistant Research Professor, DIAL

Wang, Chujii, Ph.D., University of Science and Technology of China, Adjunct Assistant Professor and Assistant Research Professor, DIAL

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Level 2

Harpole, Sandra H., Ed.D., Mississippi State University, Professor of Physics

### Plant and Soil Sciences

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Callahan, Franklin E., Ph.D., University of Kentucky, Research Plant Physiologist, USDA-ARS, Crop Science Research Laboratory

Collins, Michael, Ph.D., University of Kentucky, Professor and Head, Plant and Soil Sciences

Cox, Michael S., Ph.D., Louisiana State University, Associate Professor /Associate Agronomist of Agronomy

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Kingery, William L., Ph.D., Auburn University, Associate Professor of Agronomy/Environmental Soil Chemistry/Mineralogy

Lang, David J., Ph.D., University of New Hampshire, Associate Professor of Agronomy and Agronomist

Larson, Erick, Ph.D., University of Nebraska-Lincoln, Adjunct Associate Agronomist/Associate Extension Specialist

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Level 2

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Political Science and Public Administration

Level 1

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Clynch, Edward J., Ph.D., Purdue University, Professor of Political Science and Public Administration

Davenport, Deborah S., Ph.D., Emory University, Assistant Professor of Political Science and Public Administration

Emison, Gerald A., Ph.D., University of North Carolina at Chapel Hill, Associate Professor of Political Science and Public Administration

Goodman, Doug, Ph.D., University of Utah, Assistant Professor of Political Science and Public Administration

Shaffer, Stephen D., Ph.D., Ohio State University, Professor of Political Science and Public Administration

Travis, Rickey, Ph.D., University of Georgia, Associate Professor of Political Science and Public Administration

Level 2

Feig, Douglas G., Ph.D., University of Minnesota, Professor of Political Science and Public Administration

Wall, Diane E., Ph.D., Michigan State University, Associate Professor of Political Science and Public Administration

Wiseman, William M., Ph.D., Mississippi State University, Professor of Political Science and Public Administration

Poultry Science

Level 1

Chen, T.C., Ph.D., University of Massachusetts, Professor of Poultry Science

Courcelle, Justin C., Ph.D., Stanford University, Assistant Professor of Genetics

Kidd, Michael T., Ph.D., North Carolina State University, Associate Professor of Poultry Science

McDaniel, Christopher D., Ph.D., University of Georgia, Associate Professor of Poultry Science

Morgan, Wallace, Ph.D., Mississippi State University, Professor of Poultry Science and Head of the Department of Poultry Science

Peebles, E. David, Ph.D., North Carolina State University, Professor of Poultry Science

Thaxton, J. Paul, Ph.D., University of Georgia, Professor of Poultry Science

Vizzier-Thaxton, Yvonne, Ph.D., Auburn University, Professor of Poultry Science

Level 2

Branton, Scott L., Ph.D., Mississippi State University, Veterinary Medical Officer of Poultry Science

Chamblee, Timothy, Ph.D., Mississippi State University, Associate Professor of Poultry Science

Corzo, Alejandro, Ph.D., Auburn University, Assistant Research Professor of Poultry Science

Dozier, W. A., III, Ph.D. Auburn University, Adjunct Faculty, Poultry Science

Hargis, Phillip H., Ph.D., Texas A&M University, Adjunct Professor of Poultry Science

Lott, Berry D., Ph.D., Mississippi State University, Adjunct Extension Professor

Sadler, C. Reagan, Ph.D., Auburn University, Adjunct Professor of Poultry Science

Simmons, John D., Ph.D., Clemson University, Research Agricultural Engineer of Poultry Science
Psychology

Level 1

Adams-Price, Carolyn E., Ph.D., West Virginia University, Associate Professor of Psychology

Armstrong, Kevin J., Ph.D., Illinois Institute of Technology, Associate Professor of Psychology

Bradshaw, Gary L., Ph.D., Carnegie-Mellon University, Professor of Psychology

Carskadon, Thomas G., Ph.D., University of Colorado, Professor of Psychology

Doane, Stephanie M., Ph.D., University of California, Professor of Psychology

Eakin, Deborah K., Ph.D., University of Kansas, Assistant Professor of Psychology

Fee, Virginia E., Ph.D., Louisiana State University, Associate Professor of Psychology

Giesen, J. Martin, Ph.D., Kent State University, Professor of Psychology

Jacquin, Kristine M., Ph.D., University of Texas at Austin, Assistant Professor of Psychology

Sinclair, H. Colleen, Ph.D., University of Minnesota, Assistant Professor of Psychology

Spirrison, Charles L., Ph.D., University of Southern Mississippi, Professor of Psychology

Wells-Parker, Elisabeth N., Ph.D., Duke University, Professor of Psychology and Senior Research Scientist

Williams, Carrick C., Ph.D., Michigan State University, Assistant Professor of Psychology

Klein, Stephen B., Ph.D., Rutgers University, Professor of Psychology, Head of the Department of Psychology

Marlow, Lee G., Ph.D., University of Southern Mississippi, Adjunct Assistant Professor of Psychology

McCarley, Nancy, Ph.D., Mississippi State University, Associate Professor of Psychology and Director of University Honors Program

McMillen, David L., Ph.D., University of Texas, Professor of Psychology

McMillen, Robert, Ph.D., University of Georgia, Adjunct Assistant Research Professor of Psychology

Semko, Elizabeth A., Ph.D., Wayne State University, Adjunct Assistant Professor of Psychology

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Sociology, Anthropology, and Social Work

Level 1

Bartkowski, John P., Ph.D., University of Texas, Professor of Sociology

Blanchard, Troy, Ph.D., Louisiana State University, Assistant Professor of Sociology

Boyd, Robert, Ph.D., University of North Carolina - Chapel Hill, Associate Professor of Sociology

Cosby, Arthur G., Ph.D., Mississippi State University, Professor of Sociology and Director of Social Science Research Center

Cossman, Jeralynn, Ph.D., Florida State University, Assistant Professor of Sociology

Dunaway, R. Gregory, Ph.D., University of Cincinnati, Professor of Sociology

Frese, Wolfgang, Ph.D., Cornell University, Professor of Sociology

Level 2

Cox, Linda M., Ph.D., University of Southern Mississippi, Adjunct Instructor of Psychology

Dill, Patricia, Ph.D., University of Missouri-Kansas City, Adjunct Faculty, Postdoctoral Research Assistant, Social Science Research Center

Drabman, Ronald S., Ph.D., State University of New York at Stony Brook, Adjunct Professor of Psychology

Elder, Richard, Ph.D., Kansas State University, Visiting Assistant Professor of Psychology
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Howell, Frank, Ph.D., Mississippi State University, Professor of Sociology

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Kerley, Kent, Ph.D., University of Tennessee, Assistant Professor of Sociology

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Parisi, Domenico, Ph.D., Pennsylvania State University, Associate Professor of Sociology

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Wood, Peter B., Ph.D., Vanderbilt University, Associate Professor of Sociology

Xu, Xiaohe, Ph.D., University of Michigan, Professor of Sociology

Level 2

Burson, Herbert I., Ph.D., University of Alabama, Assistant Professor of Social Work

Crudden, Adele, Ph.D., Mississippi State University, Associate Professor Social Work

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Loewe, Ronald B., Ph.D., University of Chicago, Assistant Professor of Anthropology

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Veterinary Medicine

Level 1

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Chambers, Janice E., Ph.D., Mississippi State University, Professor of Veterinary Medicine and Director of Center for Environmental Health Sciences

Coyne, Cody P., D.V.M., Ph.D., University of California, Associate Professor of Equine Internal Medicine

Hanson, Larry, Ph. D., Louisiana State University, Professor of Basic Sciences

Jack, Sherman W., D.V.M., The Ohio State University, Ph.D., Ohio State University, Professor of Veterinary Pathology

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Level 2

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